



Manitou Client 1.5.2

© 2009 Bold Technologies Ltd.

***Bold Technologies Ltd
421 Windchime Place
Colorado Springs, CO 80919
USA***

***Telephone: +1-719-593-2829
Fax: +1-719-599-3953
Email: sales@boldgroup.com***

Manitou Client 1.5.2

© 2009 Bold Technologies Ltd.

Confidentiality Statement

All information contained in this document is provided in confidence and shall not be published or disclosed wholly or in part to any other party without the express prior written permission of Bold Technologies Limited. It shall be held in safe custody at all times. These obligations shall not apply to information that is published or becomes known legitimately from sources other than Bold Technologies Limited.

Printed: July 2009

Publisher

Bold Technologies, Ltd.

Author

*Anna C. Haiar
Technical Writer*

Acknowledgements

Many of the product, service and company names referred to in this document are trademarks or registered trademarks of their respective owners. They are all hereby acknowledged.

The information contained in this document represents the current view of Bold Technologies Ltd on the issues discussed as of the date of publication. Because Bold Technologies must respond to changing market conditions, it should not be interpreted to be a commitment on the part of Bold Technologies, and Bold Technologies cannot guarantee the accuracy of any information presented after the date of publication.

This paper is for informational purposes only. The system descriptions and diagrams contained within should be used as guidelines only. Each Manitou installation may require modifications to meet specific requirements. BOLD TECHNOLOGIES LTD MAKES NO WARRANTIES, EXPRESS OR IMPLIED, IN THIS DOCUMENT.



Table of Contents

Part I Introduction	14
Part II Screen Overview	14
Part III Toolbar	16
1 Add or Remove a Toolbar Button.....	16
2 Customize the Toolbar.....	16
Toolbars Tab	18
Add a New Toolbar Button.....	19
Rename a Toolbar.....	20
Delete a Toolbar.....	21
3 Options Tab.....	21
4 Tools Tab	22
Part IV File Menu	23
1 New	23
2 Open	24
3 Close	24
4 Close All	24
5 Save	24
6 Edit	24
7 Delete	25
8 Print	25
9 Properties	25
10 Change Password.....	26
11 Lock Station.....	27
12 Logout	28
13 Exit	28
Part V View Menu	28
1 Navigator	29
Operator Notepad	31
Change Display Dates.....	32
Add a Notepad Entry.....	33
View and Edit an Entry.....	33
Set Reminders.....	33
Display a list of Entries.....	34
Delete an Entry.....	35
Instant Message	35
Message Options.....	37

2	Status	37
	Alarm Count	38
	Message Banner	39
	Message Banner Button	39
3	Event Maps	39
Part VI Tools Menu		40
1	System Log	40
	Search and Filter Log	41
	Date and Time Searches	42
	Time Zone Searches	42
	Other Searches	42
2	Raw Data Log	42
	Date and Time Searches	44
	FEP List	44
	Time Zone Searches	44
	Receiver Line Prefix and TX ID Searches	44
3	Manual Signal	44
	FEP Manual Signal	46
	Customer Logs	46
4	Change Customer ID	47
5	Phone Dialer	48
6	Dealer Takeover	49
7	Verify Password	51
Part VII Operations Menu		52
1	Alarm Handling	52
	Alarm Handling Options	55
	Auto Get Alarms	55
	Defer	56
	Suspend	56
	Defer to Auto-Client	57
	Tracking	57
	Action Patterns	58
	Alarm Handling Menus	58
	Operations Menu	58
	Service Menu	58
	Actions Menu	59
	Hold Menu	60
	Finish Menu	60
	Process an Alarm	60
	Processing Different Types of Action Pattern	62
	Retransmission	63
	Service Provider Devices	63
	Output Device Types	64
	Reverse Commands	65
	Contact Point	66
	Sending Retransmission	66
2	Alarm Queue	66

Alarm Toolbar	70
Alarm Queue Filter	73
Refresh	74
Monitoring Group	75
Color Codes	75
Select an Alarm from the Queue	76
3 Pre-Cancel Alarms.....	76
4 Tracking	77
Tracking Display	78
Add Tracking	79
New Alarm Notification	80
Concurrent Alarm Handling	81
New Tracking Entry	82
Alarm Tracking	82
5 Paged Contacts.....	83
6 On Test Inquiry.....	84
7 On Test	85
8 Temporary Schedule.....	88
Modify or Delete a Temporary Schedule	89
9 Comment	90
View Comments	91
Remove a Comment	91
10 Reverse Channel.....	91
11 Disaster Mode.....	93
Set up Disaster Mode in Supervisor Workstation	93
Set up Disaster Mode in Client Workstation	95

Part VIII Maintenance Menu

97

1 Customer	97
Locate a Customer Record	98
Browse a Customer Record	98
Edit a Customer Record	98
2 Add New Customer.....	98
Address	100
Details	101
Private Phone Numbers.....	103
E-mail	104
Web	105
Dealer, Branches and Authority.....	105
Options	105
Systems	108
Event Monitoring.....	110
Transmitters	111
Programming	114
Multiple Test Timers.....	117
Transmitter Linking.....	118
Zones and Areas.....	119
System and Query Tests.....	121
Devices	122
Users	124

Reminders	125
Access Control.....	125
Transmitters	126
Programming	127
Sectors	130
Readers	131
Devices	131
Cards	134
Add a Card	135
Reminders	136
GPS	137
Transmitters	137
Programming	139
Asset Tracking.....	142
Check-in	142
Tracking Entries.....	143
Transmitter Programming.....	145
General Schedules.....	145
Contact List	146
Reminders	146
General Schedule.....	149
Other	150
Services	150
O/C Schedules	152
Permanent Schedule.....	152
Alternate Schedule.....	154
Holiday Schedule.....	156
Temporary Schedule.....	157
Window Codes.....	159
Contact List	160
Contacts.....	161
Contacts Tab	161
User ID Tab	165
Contact Details.....	165
Notes Tab	167
Access Cards Tab.....	167
Web Membership Tab.....	170
Dealers	172
Agencies.....	172
Branch	174
Authorities.....	175
Customers.....	175
Call Lists	176
Attentions	179
Permits	179
Comments	180
View Comments.....	181
Edit Comments.....	181
Action Patterns	182
A Note About Temporary Contacts in Action Patterns.....	188
General Schedules	188
Plans	190
Sections/Layers.....	190
Zones	192

Area	193
Objects	196
Reverse Command	197
User Defined	197
Reports	198
On Test	199
Zone Status	200
Activity Log	200
Maintenance Issues	204
Access Control	205
Modules.....	205
Reader Groups.....	206
Readers.....	206
Elevator Access Groups.....	209
Elevator Groups.....	210
Holiday Groups.....	211
Access Levels.....	211
Card Sets.....	213
Output Groups.....	215
Programs.....	217
Card Status.....	218
Unlocking doors based on a schedule using Access Control.....	218
3 Deleted Customers.....	220
Details	221
Logs	222
Filter	222
4 Dealer	223
Create a Dealer Record	224
Dealer Options.....	225
Dealer Contact List.....	226
Dealer Call Lists.....	229
Dealer Attentions.....	232
Dealer TX Types.....	233
Dealer TX ID Ranges.....	233
Dealer Programming.....	235
Dealer Comments.....	236
Dealer Action Patterns.....	238
Dealer Billing Charges.....	242
Dealer General Schedules.....	243
Dealer Control Panels.....	244
Dealer Reverse Protocols.....	245
Dealer Reverse Commands.....	245
Dealer Reports.....	246
Dealer Statistics.....	247
Maintenance Issues.....	250
Edit a Dealer Record	251
Delete a Dealer Record	252
Dealer and Third-Party Billing	252
System Options.....	252
Accounting Companies.....	254
Monitoring Types.....	257
Operator Workstation.....	259
Dealer Setup	259

Assign Customers to a Dealer.....	261
Add Services to a Customer.....	261
Set up Billing Rates.....	264
Set up Billing Charges.....	265
Crediting an Account.....	268
Reports	268
Dealer Billing Deferred Revenue.....	268
Dealer Billing Generate.....	268
Dealer Billing Preview.....	269
Dealer Billing Post.....	270
5 Authority	271
Create an Authority Record	272
Authority Options.....	273
Authority Contact List.....	274
Authority Call Lists.....	276
Authority Attentions.....	278
Authority Comments.....	278
Authority General Schedules.....	280
Maintenance Issues.....	282
Edit or Remove an Authority Record	283
6 Agency	283
Add an Agency	283
Agency Options.....	284
Agency Contact List.....	285
Agency Call Lists.....	289
Agency Attentions.....	291
Agency Comments.....	291
Agency General Schedules.....	293
Maintenance Issues.....	295
Edit or Remove an Agency Record	296
7 Branch	296
Branch Contact List	297
Branch Call List	299
Branch Attentions	302
Branch Comments	302
Branch General Schedules	304
Branch Reports	306
Branch Statistics	307
Maintenance Issues	309
8 Monitoring Company.....	310
Monitoring Company Contact List	312
Monitoring Company Call List	316
Monitoring Company Comments	318
Monitoring Company Action Patterns	319
Monitoring Company General Schedules	324
Monitoring Company Reverse Command	325
Monitoring Company TX ID Ranges	325
Monitoring Company Reports	326
Monitoring Company Statistics	327
Maintenance Issues	330
9 Global Keyholder.....	330
Create a new Record	332

Edit a Record	334
General Schedule	334
Maintenance Issues	336
10 Transmitter Types.....	337
Add a Transmitter Type	337
Transmitter Programming	339
Transmitter Programming Commands.....	341
Audio	342
CanCancel	343
Cancel	345
Confirm	345
Dual	346
EntryExit(EntryType)	346
IfClosed(Event,Alarm)	347
IfOpen(Event,Alarm).....	348
InSched(Sched No.,Event,Alarm).....	348
InTest(Event,Alarm).....	349
Pri(Priority)	349
RestCat(EvCat)	349
Restore()	349
ResRq(Event,Zone,Timeout).....	349
Suspend(Timeout,Hidden).....	350
TempClose(Window).....	350
TwoTrip(ID)	350
User(ID, Override).....	350
Video()	351
11 Maintenance Issues.....	351
Create a Maintenance Issue	351
Edit a Maintenance Issue	353
Resolve a Maintenance Issue Item	353
Delete/Purge Resolved Issues List	354
Maintenance Issue Filter Facility	355
Part IX Reports Menu	356
1 System Reports.....	356
Activity Reports	357
Alarm Cause Summary.....	357
Alarm Detail	359
Alarm Detail by Alarm Number.....	362
Alarm Resolution.....	362
Alarm Response	365
Customer Activity.....	367
Daily Signals	369
Handled Signals by Operator.....	371
Signal Count by Customer	372
Unrestored Signals	374
User History	376
Custom Reports	376
Customer Signal Count Generator.....	376
Dealer Billing Deferred Revenue (COPY).....	377
Dealer Billing Generate (COPY).....	377
Dealer Billing Preview (COPY).....	378
Dealer Billing Post (COPY).....	379

Dealer Signal Count.....	380
Maintenance Reports	380
Access Control Card Lookup.....	380
Access Control Cards/Pins.....	381
Customer Add/Del.....	382
Customers with Transmitter Type.....	382
Maintenance Issues.....	383
Permit Exception.....	385
Permit Expiration.....	385
Where Used on Contact List.....	386
Master File Reports	387
Access Control Card Formats.....	387
Accounting Companies.....	387
Agency Master File.....	388
Application Types.....	389
Authority Master File.....	389
Branch Master File.....	391
Cities	392
Class Codes.....	393
Contact Point Types.....	393
Control Panels.....	394
Countries.....	394
Customer Master File.....	394
Dealer Master File.....	397
DNIS Maps.....	398
Event Categories.....	399
Event Codes.....	400
Event Maps.....	402
Global Holidays.....	403
Global Keyholder Master File.....	404
Group Codes.....	405
Locales	406
Monitoring Company Master File.....	406
Monitoring Groups.....	407
Monitoring Types.....	407
Output Device Types.....	408
Permit Types.....	409
Post Codes.....	410
Receiver Line Prefixes.....	411
Receiver Types.....	411
Receivers.....	412
Regions.....	412
Resolution Codes.....	413
Reverse Channel Routes.....	414
Script Messages.....	414
Service Provider Device Types.....	415
Subtypes.....	416
Temporary Comments.....	416
Time Zones.....	417
Transmitter Protocol Formats.....	417
Transmitter Types.....	418
User Groups.....	419
Users	419
Window Codes.....	420

Workstation Groups.....	420
Workstations.....	421
System Reports	421
Customer Count.....	421
Customer Services.....	422
Customer Status.....	423
Customer Status Change.....	424
Dealer Billing.....	424
False Alarm Summary.....	425
Operator Time Cards.....	425
On Test.....	425
Raw Data Log.....	425
Receiver Line Loading.....	425
System Connection Status.....	426
System Log.....	427
Transmitter Count by Receiver.....	428
Transmitter Count by Tx Type.....	428
Unused Transmitters.....	429
User Statistics.....	429
Run a System Report	429
Print a System Report.....	431
Send a System Report to a Customer or Dealer.....	432
Send a System Report by Fax or E-mail.....	433
Preview a System Report.....	434
2 Report Queue.....	435
Preview a Queued Report	435
View Reports for a Specific User	435
Filter the Queue by a Specific Date/Time	436
Show All Reports	436
Scheduled Reports	436
Schedule a Report.....	437
Edit an Existing Publishing Instruction.....	438
Part X Troubleshooting	439
1 Caller ID Mismatch.....	439
2 Agency Rights.....	439
Part XI Keyboard Shortcuts	440
1 CTRL Keys.....	440
2 ALT Keys	440
3 F Keys	440
4 UL Required Reports.....	442
Alarm Detail	442
Alarm Detail by Alarm Number	445
Master File Report Sorted by UL Certificated Accounts	447
Customer Status - Active/Inactive	451
Receiver Line Loading - Accounts on Each Receiver ID	452
5 UL Standards.....	453
Revision History	454
UL Alarm Ticket	454

Part XII UK-Specific Topics	455
1 Remote Reset.....	455
Part XIII Language Utility	456
Part XIV Appendix A - Software Compatability Chart	458
Part XV Appendix B - Manitou Sevices Descriptions	459
Part XVI Appendix C - Entry/Exit Programming	461
1 Entry/Exit Delay.....	461
Schedule Examples	462
Signal Processing Commands	463
Example: Burglary Alarm	464
Example: Open Signal	465
Example: Close Signal	466
2 Entry Type.....	466
3 New Functionality.....	467
4 Activity Log Example.....	467
Part XVII Appendix D - Delaying Signals for Future Handling	468
1 Delaying Signals with Restore Overdue.....	468
2 Setting the Overdue Option.....	468
3 Transmitter Programming for the Restore Overdue.....	469
4 Command Programming for the Restore Overdue.....	470
5 Event Actions Programming for the Restore Overdue.....	471
6 Other Considerations for the Restore Overdue.....	472
7 What the Operator Should See for the Restore Overdue.....	473
8 Programming at the Transmitter Level.....	475
Part XVIII UL Required Signal Priorities	475
Part XIX Manitou System Configuration	476
Part XX Replication Switchover Procedure	486
Part XXI Manitou Remote Access	488
Part XXII UL Alarm Handling Summary - Operation	490

Introduction

The Manitou Operator Workstation is the center of alarm processing for a Central Station. From the Operator Workstation, Operators can handle alarms, enter customer information, set up Dealers, run reports, among many other operations.

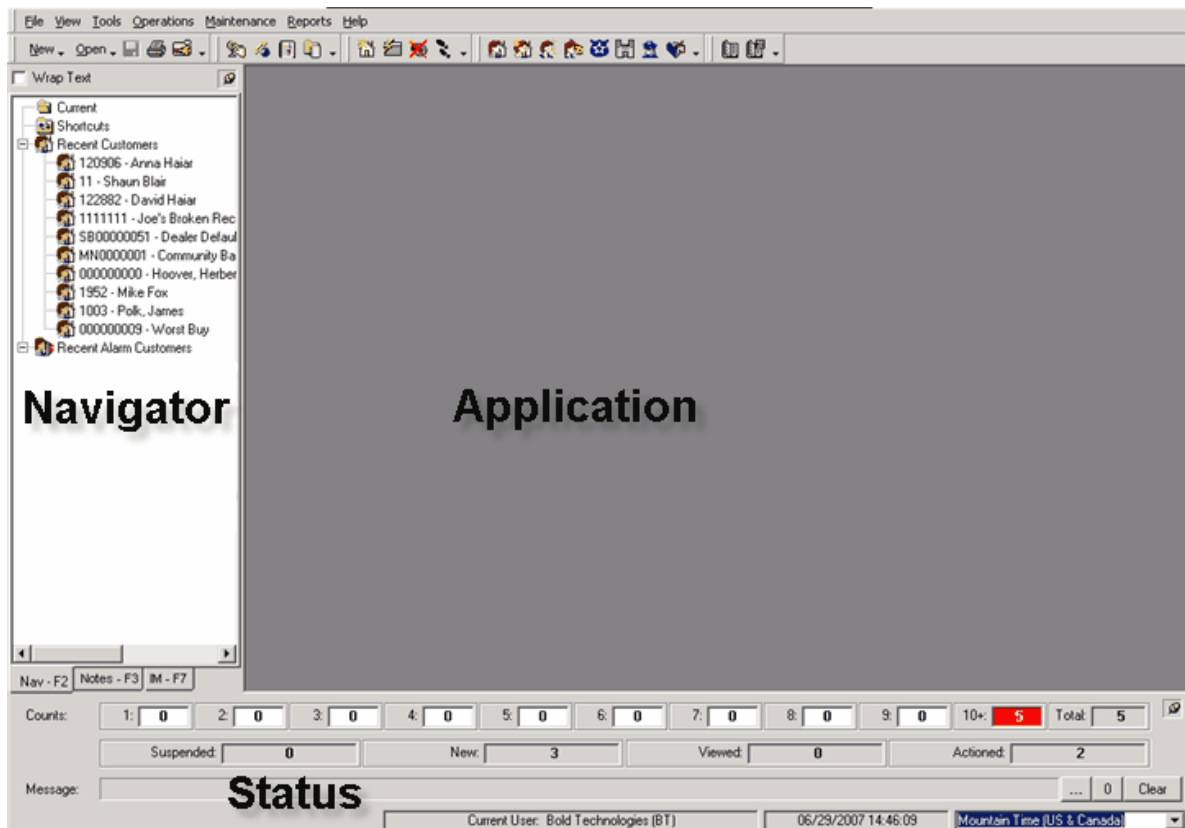
Screen Overview



Manitou contains a very helpful User Interface. Instead of memorizing keystroke patterns and having to toggle between separate screens to take one action or another; Manitou offers a Graphical User Interface (GUI). An Operator can access alarms, create new customers, edit existing customers and view log information without the necessity of closing one item to view another.

Manitou contains a three-frame interface that eases and speeds navigation. This three-frame interface includes the following:

- **Navigator/Note Pad**
- **Status**
- **Application View**

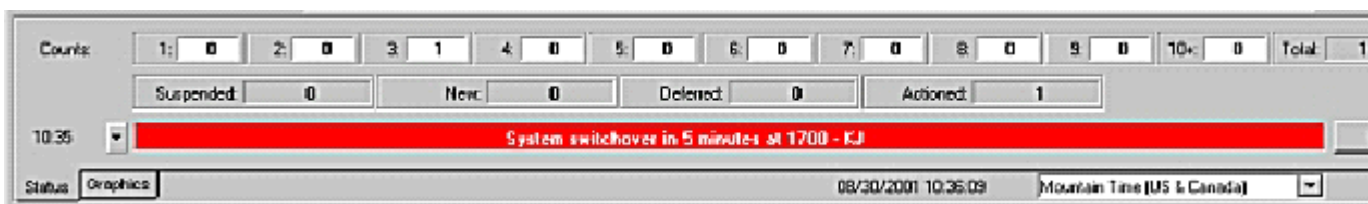
Each of the three frames has a specific use. Using all three frames in concert with one another speeds up the transaction processes in a Central Station. The three-frame interface allows the user to view the maximum amount of data in a minimum amount of space. Note the three frames in the picture below: the Navigator, the Application and the Status area.



Notice the push pins  on the upper right corner of each frame. These push pins allow users with lower resolution screens to maximize their use of Manitou and prevent scrolling from right to left often. Simply click the pushpin so it changes to the turned pin  and move the mouse away from that frame. The frame then scrolls away.

To bring back the frame, hover the mouse over the left edge of the application to get the Navigator back, the lower edge to get the Status bar back and the right edge to get the Customer navigator back, then click the pushpin to "secure" the frame back into place.

The bottom portion of the application contains the **Status Bar** or Status Pane. This shows the current status of the Operator's monitored alarms and Broadcast messages.



The alarm counts show the Operator which items need attention within the Manitou Alarm Queue, and how many alarms are new, suspended, deferred or actioned. The Broadcast Messages share important information with the entire Operator group. These Broadcast

messages offer three importance levels; green - generic information, amber - needs attention soon, red - needs immediate action.

The colors that help manage the system are White, Amber and Red. The colors are based on the age of the oldest alarm in the queue. If the oldest alarm is less than 60 seconds old (in most cases) the counts and the graphics will remain white. After 60 seconds, the counts and the graphics change to amber this shows the oldest alarm in the queue is now at warning levels 1 and 2. After 90 seconds, the counts and graphics change to red showing the oldest alarm has reached the critical warning levels of 3 and 4.

Toolbar

Users have the option to utilize the quick-launch toolbar in the Operator Workstation. This toolbar is located directly under the menus in the upper quadrant of the screen. Hovering the mouse over each button will display its function.

Add or Remove a Toolbar Button

Users have the option to Add or Remove Toolbar buttons and may customize the Toolbar display. This function is unique to each user. Once the user saves his or her toolbar, it will load each time the user logs in to the Operator Workstation.

Add or Remove buttons

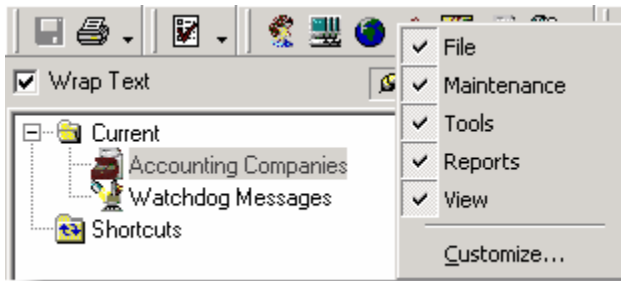
1. Open the Operator Workstation.
2. Locate the arrow next to a Toolbar button.
3. Click on the arrow to bring up the Add or Remove Buttons box.
4. Click on the Add or Remove Buttons box.
5. To Remove a button, click on the check mark next to the button.
6. To Add a button, click to the left of the button. A check mark will appear, indicating the button will be added to the Toolbar.

Customize the Toolbar

Users may customize the toolbar to his or her liking and may do so quickly by opening the Customize Toolbar window and select or deselect the desired toolbar buttons.

1. Open the Customize Toolbar window by clicking on the arrow next to a toolbar button or by right-clicking anywhere on the toolbar.

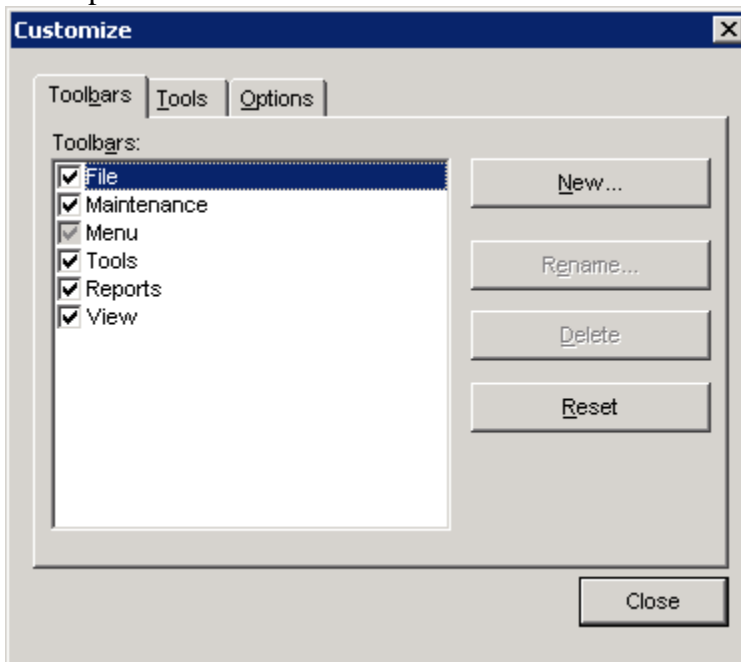
Right-click on the Toolbar to bring up the Toolbar list.

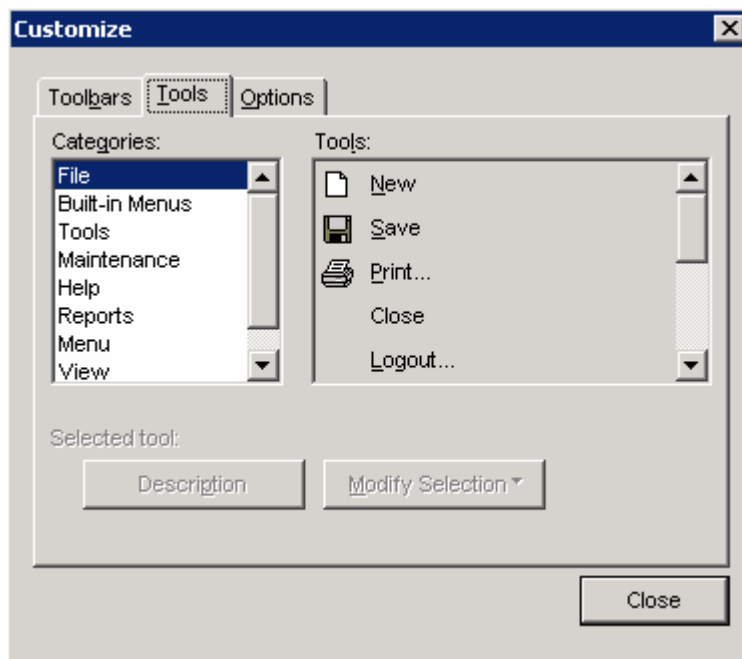


2. Select Customize from the list. The Customize Toolbar window will appear:

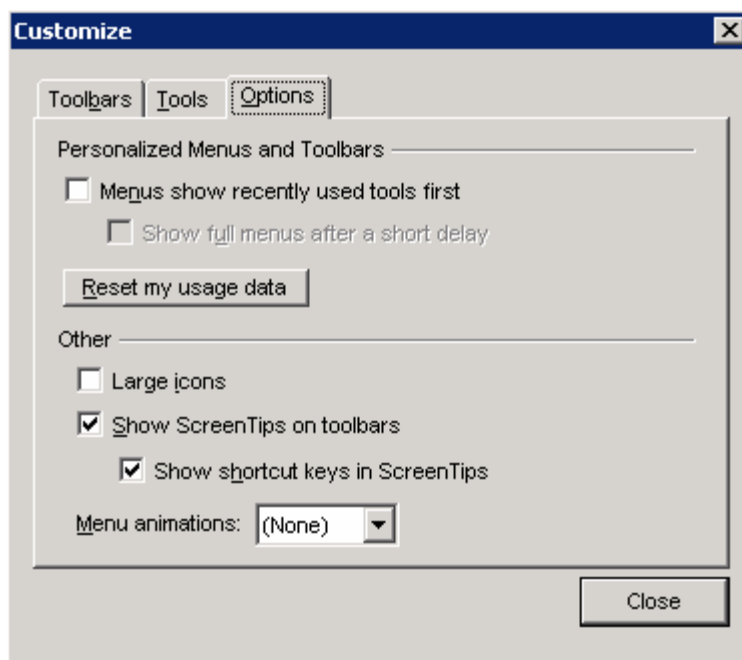
The Toolbars tab will appear by default. The Toolbars tab lists all toolbar buttons currently displayed. Checking or un-checking next to a toolbar name will add or remove it from the toolbar. For example, un-checking the File toolbar removes the Save and Print buttons from the Toolbar.

The Tools Tab allows users to click, drag and drop tools buttons to the toolbar. The Tools are divided into categories and contain a brief description when highlighted and clicking on the Description button.





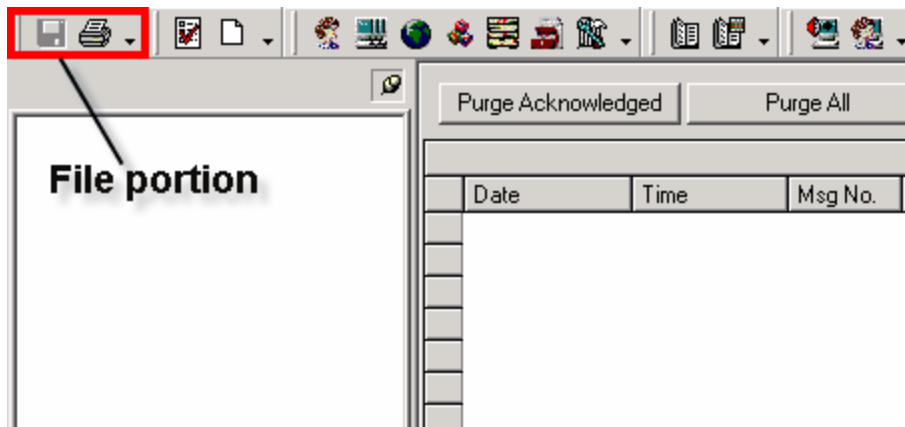
The Options Tab lists customizable options available to each user. Users may choose to have the toolbar display recently used tools first, show menus after a short delay, use large icons, show the name of the button when hovering the mouse pointer over the button, show shortcut keys or change the animation features for the menus.



Toolbars Tab

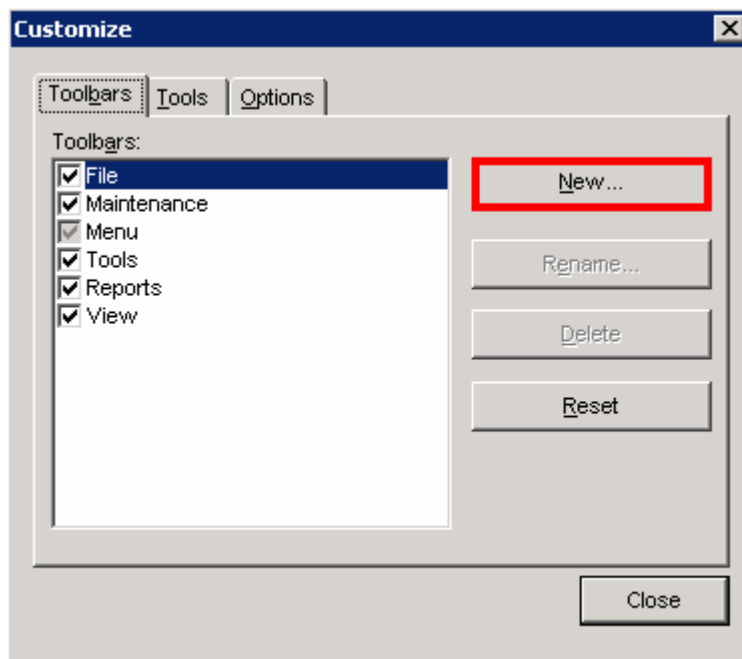
The **Toolbars Tab** is used primarily for adding, renaming and deleting sections to the Quick-Launch toolbar. Each Toolbar listed in the directory are created by default and contain default

buttons. For example, the File portion of the toolbar may contain the Print or Save buttons:

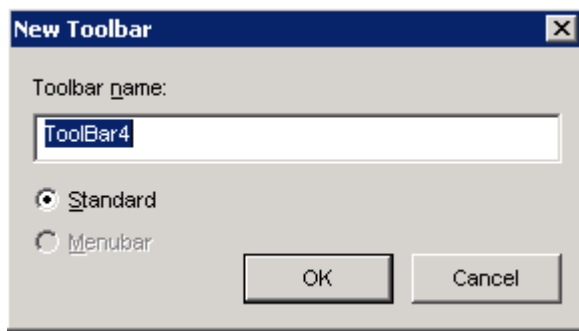


Add a New Toolbar Button

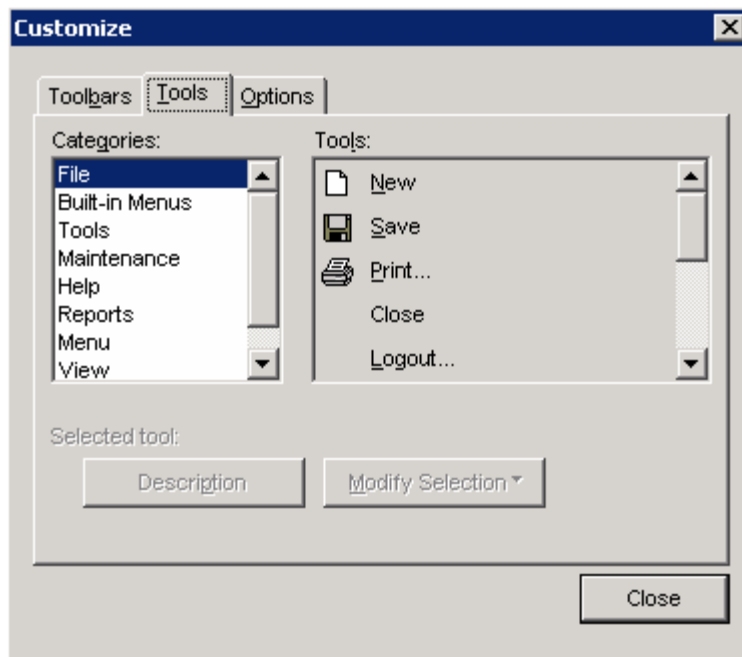
1. Click on the New button located in the Toolbars Tab.



2. Enter a name for the new Toolbar.



3. Click OK. The new toolbar section will appear on the Quick-Launch Toolbar.
4. Select the Tools Tab.

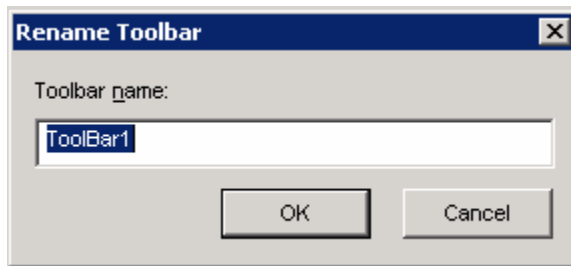


5. Select a category.
6. Select a tool from the Tools list.
7. Click and drag the desired tool to the new toolbar button.
8. When finished adding new tools, click Close to close the customization box.

Rename a Toolbar

1. Open the Customize Toolbar window by right-clicking anywhere on the toolbar.
2. Select Customize from the list. The Customize Toolbar window will appear.
3. Select the Toolbar to be renamed from the Toolbars list.

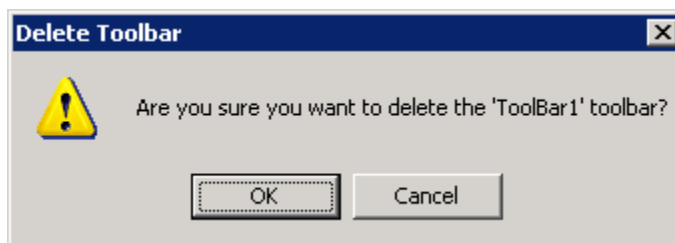
4. Click on the Rename button. A Rename box will appear:



5. Click OK. The Toolbar is now renamed.

Delete a Toolbar

1. Open the Customize Toolbar window by right-clicking anywhere on the toolbar.
2. Select Customize from the list. The Customize Toolbar window will appear.
3. Select the Toolbar to be deleted from the Toolbars list.
4. Click the Delete button. A Delete dialogue box will appear:



5. Click OK to confirm the delete. The toolbar and its components are now deleted.

Options Tab

- **Menus show recently used tools first**

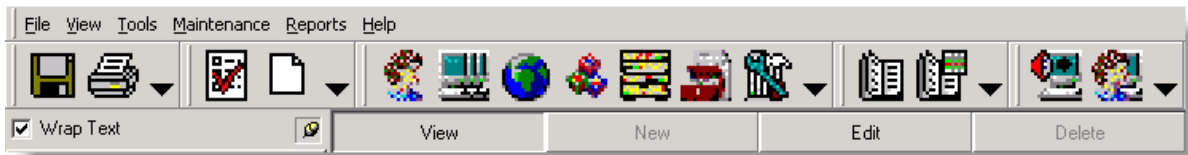
This option will order the menus by the most recently used functions. If the user wishes for the menu to expand to show the full list after a short period of time, select the "Show Full Menu after Short Delay" option.

- **Reset my usage data**

Resetting the usage data will reset the most recently used functions to their default settings and the menu will no longer show the most recently used tools first.

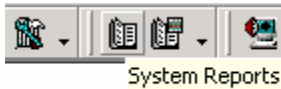
- **Large Icons**

Selecting the Large icons option will enable the toolbar to display larger icons:



- **Show ScreenTips on toolbars**

Choosing the Show ScreenTips on toolbars option will display the function of a button when hovering the mouse pointer over a particular button:



- **Show shortcut keys in ScreenTips**

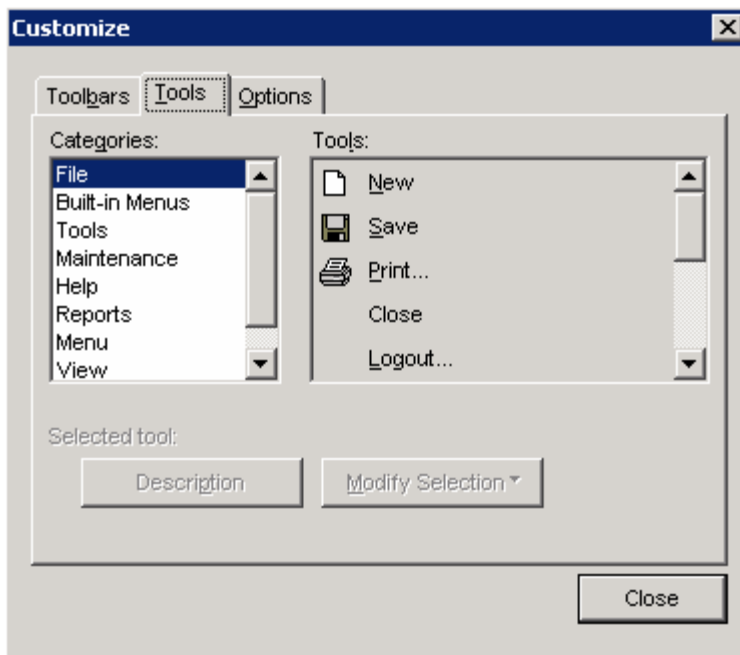
When the Show ScreenTips option is selected, the Show shortcut keys in ScreenTips option will be enabled. Selecting this option will display the shortcut keys command when the ScreenTips appear while hovering the mouse pointer over a specific button.

- **Menu animations**

The menu animations function changes the display feature of the file menus. For example, the FadeIn option will cause the menu display to fade into displaying the full menu.

Tools Tab

The **Tools Tab** function is used to drag and drop various tools to the Quick-Launch Toolbar. Tools are divided into appropriate categories and contain brief descriptions.



Add a Button to the Toolbar

1. Under the Tools tab, Select a category.
2. Select a tool from the Tools list.
3. Click and drag the desired tool to the new toolbar button.
4. When finished adding new tools, click Close to close the customization box.

File Menu

The following options are accessible from the File menu:

- New
- Open
- Close
- Close all
- Save
- Edit
- Delete
- Print
- Properties
- Change Password
- Lock Station
- Logout
- Exit

New

The new command is a convenient way to create a new record of the

The sub-menu currently allows any of the following record types to be created:

- Customer
- Dealer
- Branch
- Authority
- Agency
- Global Keyholder

On selection of a sub-menu option, Manitou will display a blank record to enable you to enter details for the record.

For information on how to create specific records, please refer to the appropriate section of this Reference Guide.

Open

The **Open** command allows Operators to open a record of the type selected in the sub-menu that appears when a user hovers the mouse over the Open option.

The sub-menu command allows any of the following record types to be opened:

- Customer
- Dealer
- Branch
- Authority
- Agency
- Global Keyholder

On selection of a sub-menu option, Manitou will display a blank record to enable the Operator to search for a specific record of the type selected.

Close

The **Close** command closes the current displayed record or form. For example, if an Operator is updating data for a Customer, the Operator may choose the close command to close the form once the data is updated. Upon selecting this command, a prompt will appear, asking the user to save changes before closing. Click Yes.

Close All

The **Close All** command will close all currently opened records listed in the Current section of the Manitou Navigator. If changes have been made to any of the currently opened records and have not been saved, Manitou will prompt the user to save changes before closing the form. This action may be especially useful if the Operator wishes to close a batch of records previously accessed during a session instead of closing each record individually.

Save

The **Save** and **Save As** commands save changes that the Supervisor has made to the currently displayed record. Both functions be found by clicking on the File Menu, then Save or Save As. The option to "Save" or Save As will appear grayed out unless the current record has been edited. This command is also found by clicking on the Save icon located in the quick-launch toolbar.

Edit

Accessing the **Edit** command in the File menu by clicking on File, then Edit, will allow the user to edit the currently displayed record. This command can also be found in a record or

form.

Delete

The **Delete** command will delete the currently displayed record. This command is only available if the current user has authorized access to delete records. The delete button located on the quick launch toolbar also provides the same function.

Delete a Record

1. Click on the File drop-down menu.
2. Select Delete.
3. A box prompting the user to confirm the delete request will appear.
4. If prompted, enter the user password.

Note: Deleting a record is a permanent action and cannot be reversed.

Print

Printing the current displayed record:

1. Click on the File Menu.
2. Select Print.
3. In the print dialogue box, select the appropriate printer.

Print Dialogue Box

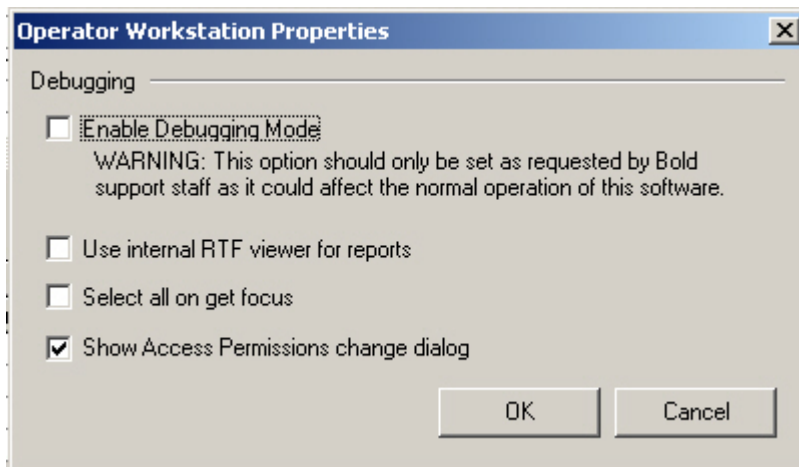
4. Click on the Entire Form radio button to print the entire form, or
5. Click on the Active Form radio button to print the current page.
6. Click OK to begin printing.

Properties

The **Properties** command enables the user to configure certain behaviors of the Operator Workstation. This configuration is user-specific, meaning only the currently logged on user will be affected by configuration.

1. Click on the File Menu.
2. Select Properties.
3. Check the appropriate for configuration in the Operator Workstation Properties box.

Operator Workstation Properties



Descriptions of Configuration Properties

- **Enable Debugging Mode.** This option should be used only if instructed by Bold support personnel. This function is used as a diagnostic tool for system problems. This option will automatically de-select on logging out of the Operator Workstation. Please refer to the Configuration Parameters chapter in the Supervisor Workstation manual to set the box to stay checked upon logout from the Operator workstation.
- **Use Internal RTF Viewer.** This option enables reports to be viewed without using Microsoft Word or Microsoft WordPad. Most users should check this option so that reports are formatted correctly.
- **Select All on Get Focus.** This function is currently not available.
- **Show Access Permissions change dialog** - Check this box to allow the Client to display a dialog upon permissions changing for any user.

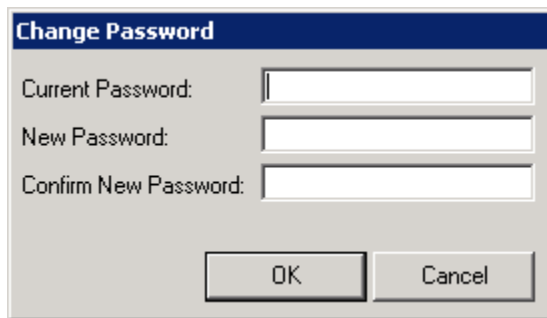
Change Password

Periodically, users may wish to change their password for the Supervisor Workstation. This enables a more secure environment and it is recommended to change the password every 4 months.

Change a Password

Note: When the Change Password option is selected, the password is being changed for the user currently logged in to Supervisor Workstation.

1. Click on the File menu.
2. Select Change Password. A Change Password window will appear:

A dialog box titled "Change Password" with a blue header bar. It contains three text input fields: "Current Password:", "New Password:", and "Confirm New Password:". At the bottom, there are two buttons: "OK" and "Cancel".

3. Enter the current password for the user currently logged into the system.
4. Enter the new password.
5. Confirm the new password.
6. Click OK.

Tips for changing a password

It is recommended that any password have the following criteria:

- At least 8 characters long;
- A mixture of upper case, lower case letters, digits and punctuation;
- Do not use a common dictionary word, name string of numbers, or the Manitou login ID.

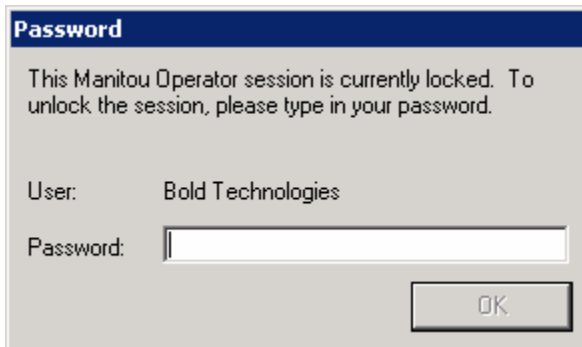
Lock Station

The **Lock Station** command will temporarily disable the operation of the workstation, preventing it from being accessed by an unauthorized user.

1. Click on the File drop-down menu.
2. Select Lock Station.

A password dialogue box is displayed and the session is now locked. When locked, the current display will remain active and can be viewed, but keyboard and mouse input will be ignored.

Locked Session



Enter the password to unlock the session.

Logout

The **Logout** command will log a user out of the Operator Workstation at the end of a session. Once selected, the user will be prompted to confirm the request. Any open records will then be closed. If records have been modified but not saved, Manitou will prompt the user to save the changes to the record before continuing. Click Yes to save changes, or No to discard any changes.

To cancel the logout process, click on the Cancel button when prompted to confirm the logout request.

Exit

Clicking on the **Exit** command will log the user out of the Operator Workstation, as well as close the Client. The Exit command is different than the Log Out command in that it does not provide a log on dialogue box in the Windows desktop to enable a user to log in again.

Once the Exit command is confirmed, any currently opened records will be closed. If the records have been modified and not yet been saved, Manitou will prompt the user to save changes before exiting.

If the Exit command is selected by accident, click on the Cancel button to cancel the command.

View Menu

From the View Menu, users may display several windows:

- Navigator
- Status
- Event Maps

Navigator

The Operator Workstation **Navigator** is similar to the Navigator in the Supervisor Workstation. It provides a convenient means of quickly displaying forms and records that have recently been viewed.

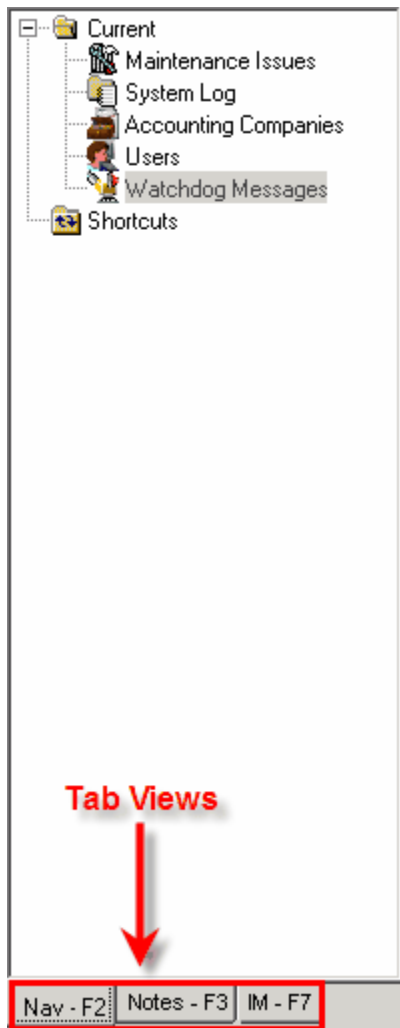
The Navigator command will toggle the display of the Manitou Navigation Frame box. This command is a default command and will automatically be displayed when logging into Operator Workstation.

Display Navigator Window

1. Click on the View menu.
2. Select Navigator.

When selected, the Navigation Frame will be located on the left hand side of the display. Users may also display the Navigator window by pressing F2 on the keyboard.

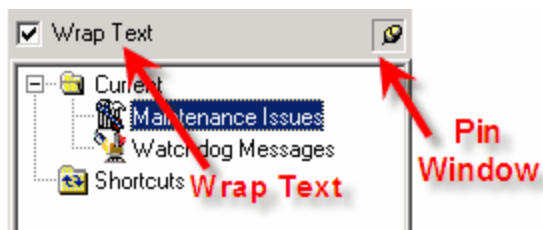
Navigator Window



Tab Views

The Navigator Frame also provides access to the Operator's Notes and the Instant Messaging function (if enabled for use). These additional facilities are accessible by means of the tabs located at the base of the Navigator.

Other Navigator Window Options



Wrap Text

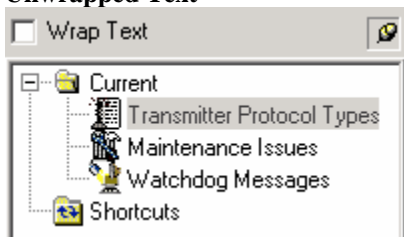
The Wrap Text option allows the user the choice to wrap text in the main Navigator window

by adding a second line on which text appears in the Navigator. This function does not affect any other text displays in Notepad or the Instant Message function.

Wrapped Text



Unwrapped Text



Pin Navigator Window

The Pin Window option allows users to hide the Navigator window by clicking on the pushpin icon. To display the Navigator window again, click on the View menu, then select Navigator.

Operator Notepad

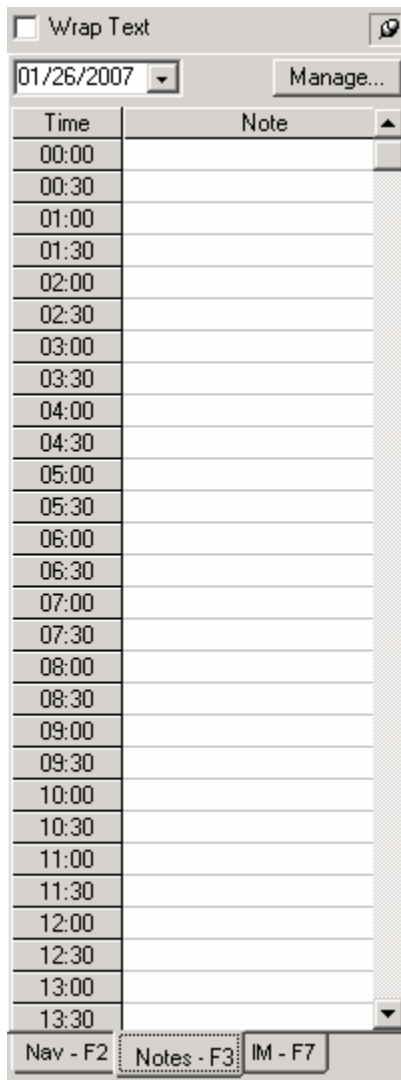
The **Notepad** function provides a way to store and display personal notes, reminders and appointments. Information in the notepad is not shared or accessible by other users.

Display the Notepad

1. Open the Navigator window.
2. Click on the Notes tab located at the bottom of the window.

This feature can also be accessed by pressing F3 on the keyboard.

Notepad



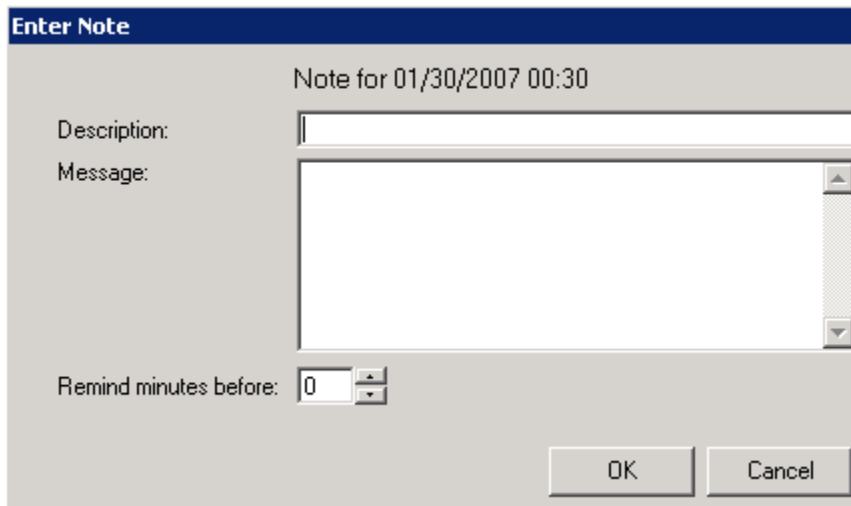
Initially, the Notepad for the current day will be displayed.

Change Display Dates

1. Open the Notes tab in the Navigator window.
2. Click on the drop-down arrow located in the upper left portion of the window. The current date is circled in red.
3. Select the appropriate date to display by clicking on the date.
4. If dates other than the current month need to be displayed. click on the left or right arrows next to the month to display the appropriate month.
5. Once the date is selected, use the scroll buttons to view entries for a specific time.

Add a Notepad Entry

1. To add a Notepad entry, such as an appointment or reminder, find the appropriate date in the Notepad.
2. Double-click on the appropriate time. The Enter Note window will appear:



The screenshot shows a dialog box titled "Enter Note". The title bar is dark blue with the text "Enter Note" in white. Below the title bar, the text "Note for 01/30/2007 00:30" is displayed. There are two input fields: "Description:" and "Message:". The "Remind minutes before:" field is set to "0". There are "OK" and "Cancel" buttons at the bottom right.

3. Enter the note, appointment or reminder in the Enter Note window. The Description is used as a title for the note.
4. Enter the reminder by adding minutes to the Remind Minutes Before box.
5. When finished, save the note by clicking OK.

View and Edit an Entry

1. To view a previously saved note, select the date.
2. Double-click on the note.

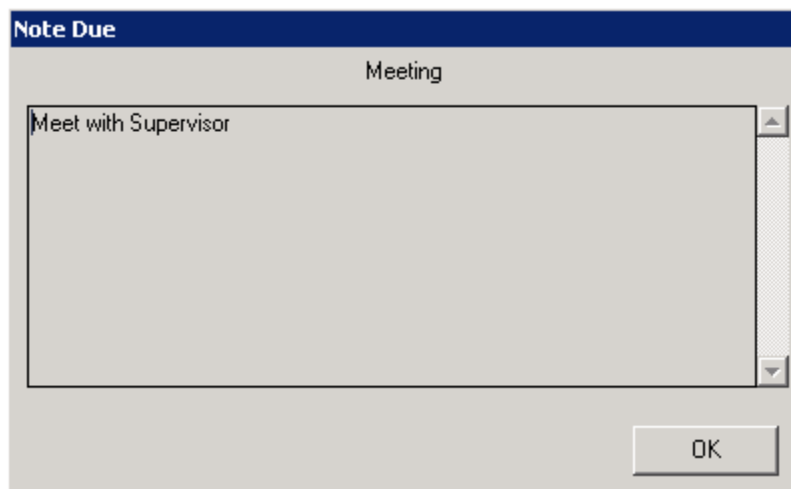
Users may now edit the note description as desired.

Set Reminders

Users can set a reminder for Manitou to alert the user when an entry is due. Reminders are displayed as the deadline arises or when the user next logs in to the Supervisor Workstation.

Receiving and Acknowledging Reminder Alarms

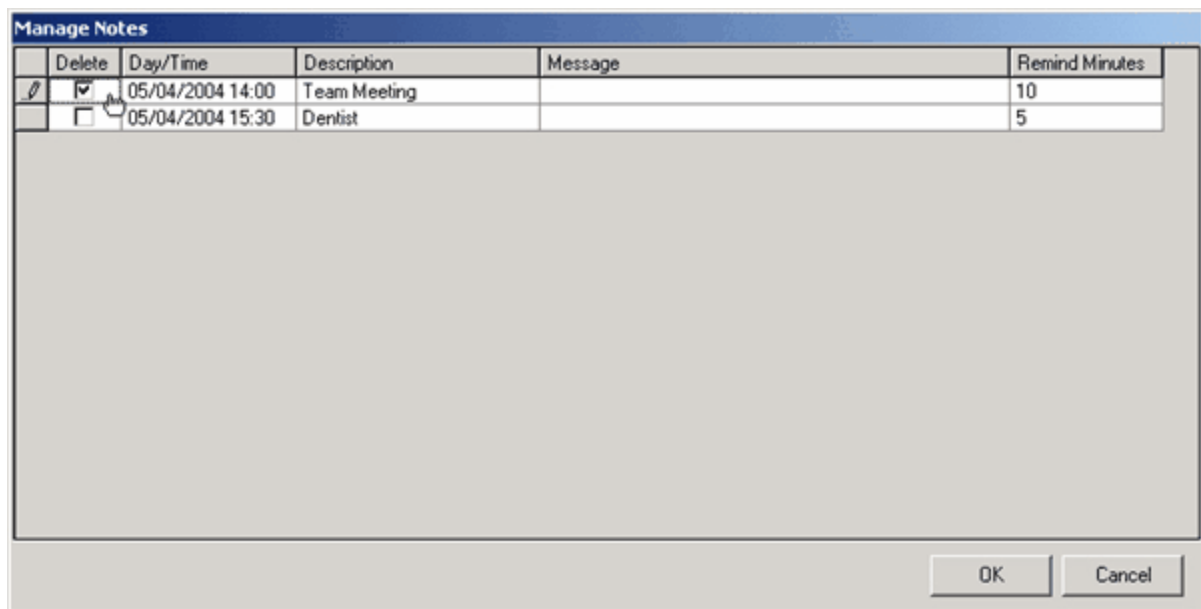
If a reminder has been set, a reminder pop-up window will be presented to the user at the specified time.



The reminder pop-up provides details of the note or reminder and the due time. To acknowledge the reminder, click the OK button. This action also removes the dialogue box from the screen, as well as the note from the Notepad.

Display a list of Entries

To display a list of all future notes that have been entered into the Notepad, click on the Manage button located at the top right corner of the Notepad window. This will display the Manage Notes window.



In the Manage Notes window, users may mass delete notes by checking the Delete box next to the appropriate note. Select OK to confirm the delete.

Delete an Entry

1. Display the list of Notepad entries by clicking on the Manage button, located at the top right of the Notepad window.
2. Locate the entry to be deleted from the Notepad.
3. Check the Delete box next to the appropriate entry.
4. Click OK.

Instant Message

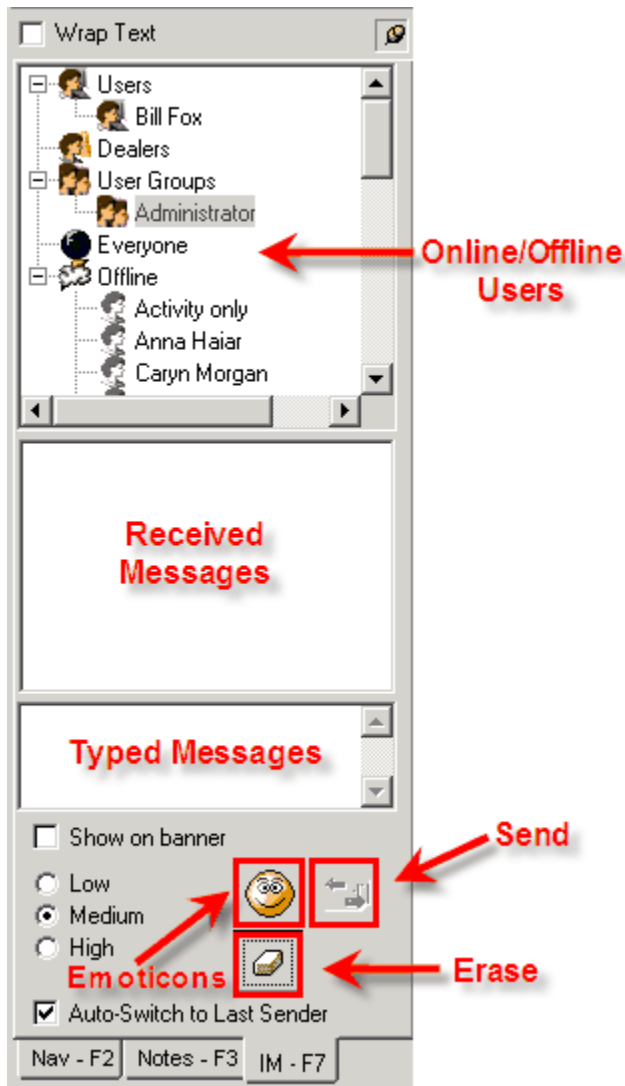
The **Instant Messaging** function provides online users (users who are currently logged in to Supervisor Workstation or the Manitou Operator Client) with the means and sending and receiving internal messages. This function makes use of Manitou's local or wide area networking infrastructure.

To select Instant Messaging (IM), click on the IM tab located at the bottom of the Notepad window, or press F7 on the keyboard.

To Send a Message to a User or Group of Users

1. Select the recipient(s) by clicking on the user's name or the group of users from the Online/Offline users window.
2. Position the mouse cursor into the Typed Messages Area and enter the text of the message.
3. Click the Send button or hit Enter on the keyboard.

The message will now be transmitted to the selected user or group of users. A copy of the message will also appear in the Received Messages Window. Messages, unless marked private, will also appear in the Message Banner of the Status Bar.



Online/Offline Users

When the Instant Messaging function is selected, the IM window displays a Users Tree which contains a list of all users that are currently online. The tree also lists users who are currently offline. Messages can only be sent to users who are online, as Manitou cannot store messages for later delivery to users when they next log in.

Received Messages Window

Below the Online/Offline Users is the Received Messages window. This window displays the text of each message as it is received, as well as the sender's name.




Typed Messages Area

To type a message to an online user, use the Typed Messages window to enter the text of the message to be sent.

Note: Dealer-restricted users may only see and instant message other users who have first instant messaged with them.

Message Options


The following options may be selected prior to transmitting the message:

- **Auto-Switch to Last Sender** - When checked, the IM will direct any new messages to the sender of the last received message. This provides a "conversation mode" option whereby replies can be sent without it first being necessary to select the recipient from the online users list.
- **Show on Banner** - When checked, the IM will display the message in the Alerts Message window.
- **Low Priority** - For non-private messages, the message is displayed at recipient's workstations with a green background.
- **Medium Priority** - For non-private messages, the message is displayed at the recipient's workstation with a yellow background.
- **High Priority** - For non-private messages, the message will be displayed with a red background.
- **Erase Button** - When clicked, will clear the Received Messages Window. 
- **Send Button** - The Send button sends the text held in the Typed Messages Area to the selected user or group. 
- **Emoticon Button** - This function allows the user to add an emotion icon to a message prior to transmission. 

Status


The **Status** view will toggle the display of the Manitou Status Bar. When selected, the Manitou Status Bar will appear at the bottom of the Manitou screen and provides a summary display, showing current alarm information. Additionally, any current system messages are displayed in the scrolling message banner, located at the bottom of the Status bar.




By clicking on the  button located next to the total message counts, users can expand or collapse the status portion of the window. When collapsed, the status section will only show the message banner with the current message displayed. When expanded, users will see the entire status section, including the alarm count, message banner, and signal actions.

Below the Message Banner, users can change the time zone by simply clicking on the down arrow to bring up a list of time zones. Selecting a different time zone will automatically change the time associated with receiving alarms and signals.



By clicking on the  button located next to the Message Banner, users can pull up old events and signals that have been received by Manitou.

Clicking on the  button located next to the Message Banner will speed up the process of scrolling Watchdog messages, while clicking on the Clear button will clear the messages in the Message Banner.

Alarm Count

The **Alarm Count** displays the current total number of alarms in the Alarm Queue. The alarms are separated by priority number. For priorities one through nine, Manitou displays the number of each alarm for each different priority. For alarms with a priority of 10 and above, a single total is displayed.

When a new alarm is received, the number displayed in the counter will flash. The information displayed is also color coded to reflect the status of the alarm. Please refer to the Alarm Queue section for a description of alarm color codes.



- **Suspended Alarms** - Alarms that are currently suspended by Operators.
- **New Alarms** - The number of new alarms that have not yet been viewed or actioned by

Operators.

- **Viewed Alarms** - The number of alarms that have been viewed.
- **Actioned Alarms** - The number of alarms in which at least one action pattern item has been executed.

Note: All count information relates to the monitoring group to which the current user belongs and not to the system as a whole (unless all users share a single monitoring group).

Message Banner


The **Message Banner** displays important system-generated messages, including housekeeping, operational broadcast, and non-private instant messages sent within the monitoring group. Messages will scroll from left to right across the banner area. Messages are also color coded to indicate priority and/or severity.

- Green indicates "general information."
- Yellow indicates "priority."
- Red indications "critical."

Message Banner Button



Message Display - Displays a list of all messages currently held in the banner queue. 

Counter - Displays the number of messages currently held in the banner queue. 

Clear - Clears the current message from the banner line.



To stop messages from scrolling across the message banner area, simply right-click on a message and then select "Don't Scroll Messages."

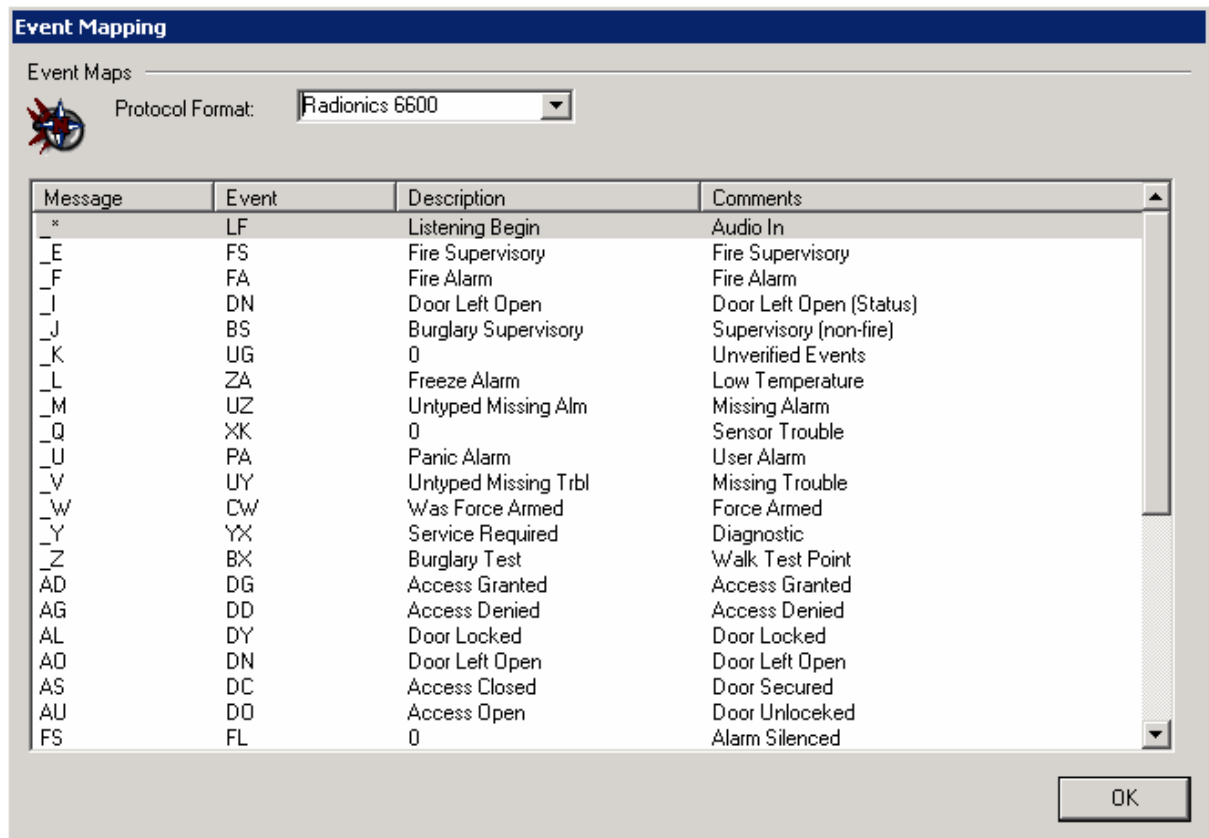
Event Maps

Displaying the **Event Maps** will provide a table with definitions of Event Codes as used within the Manitou system. For a full explanation on how to set up Event Codes and Event Maps, please refer to the Supervisor Workstation Manual.

Operators may use this feature to view a "plain English" definition of any Event Code that

might appear in a Manitou screen. This function is particularly useful to identify codes that are less frequently encountered.

Event Maps is a read-only display. Users may select a Protocol from the Protocol format list and view Event Maps associated with that particular Protocol.



Tools Menu

From the **Tools** menu, users can access a list of logs, generate manual signals, change customer IDs and use the Phone Dialer.

System Log


The **System Log** provides users with details of Operator login and logout activity. Users can also view activities with the Report Server, Publisher, and Watchdog Messages.

Open the System Log

1. Go to the Tools Menu.
2. Select System Log.

The screen will display the current day's activities up to 300 entries. If more than 300 entries are available, the More button, located next to the Refresh button, will be enabled. Clicking on the More button will display additional entries.

System Activity Log



System Log 3 Records:

Date/Time	Category	Qualifier	Event Text	User ID
08/05/2008 06:34	Report Server	Success	[Ad Hoc] Customer Activity Report has Completed.	BOLD
08/05/2008 06:27	Log On/Log Off	Logged On	Bold Technologies	BOLD
08/05/2008 06:23	Log On/Log Off	Logged On	Bold Technologies	BOLD

Search and Filter Log


Users may base activity searches on specific filters, such as:

- Categories
- Activities corresponding to a particular Operator (user initials)
- Specific period of time or time zone
- Qualifier

To access filter options, click on the Filter tab located at the bottom of the window next to the Logs tab.

Filter Window

Date and Time


 Date From: Time:

Date To: Time:

Reverse Time Range Except Time

Time Zone:

Other

 Category: Except Category

Qualifier: Except Qualifier

User Initials: Except User

Date and Time Searches

Date and Time parameters can be set using the drop down boxes in the date and time area of the filter display.

Search for a Date and/or Time

1. To restrict the search results to a certain date or time, select the date and/or time from the drop-down calendar.
2. Check the "Time Range" box.
3. Click on the Search button.

Exclude a Date and/or Time

1. Select the date or time to be excluded in the search.
2. Check the "Except Time" box.
3. Click on the Search button.

Reverse Search Results

The Reverse check box is by default checked. This will display the most recent activity at the top of the list. To list the oldest activity first, uncheck the Reverse box.

Time Zone Searches

Central stations which have operations spanning several time zones may wish to use the Time Zone search to search for activity in a certain time zone. Any Daylight Savings time settings are automatically updated by the Manitou system clock.

Other Searches

Users may also specify certain types of activity, qualifiers or Operators in the search criteria.

Selecting a **Category** will change the options listed in the **Qualifier** drop-down menu. For example, selecting the Report Scheduler in Category yields a single option of "Messages" in the Qualifier drop-down menu. However, selecting User Messages in the Category menu gives the user "Broadcast," "User" or "User Group" search options in the Qualifier menu.

Users can also search for a specific Operator's activity by entering the Operator's initials into the User Initials field.

To exclude a certain search criteria, check the Except checkbox next to the search field.

Raw Data Log

The **Raw Data Log** displays details of all alarms and other signals received by Manitou from the alarm receivers connected to the system. The data is displayed in the original format as received by the Front End Processors (FEPs). The Raw Data Log is primarily used for

diagnostic purposes, but can be useful in the event that it is necessary to trace a particular signal or group of signals from a particular customer.

Initially, all raw data received by FEP 1 during the current date is displayed. Up to 300 entries will be displayed and may be viewed by scrolling up and down using the scroll bar. In the event that more than 300 records are available, the More button will be enabled. Clicking on the More button will display additional entries.

The screenshot shows the 'Raw Data Activity Log' window. At the top, there are search criteria fields: 'Date From' and 'Date To' (both set to 02/06/2007), 'Time' (00:00:00 and 23:59:00), 'Rec. Line Prefix', and 'TX ID'. There are also checkboxes for 'Reverse' and 'Time Range', and a 'Time Zone' dropdown set to 'Mountain Time (US & Canada)'. 'Search' and 'More' buttons are present. Below this is a tree view labeled 'FEP list' containing various receiver entries like 'REC 3 - MX 8000 - 9800 mode 1', 'REC 4 - Bold IP Receiver 1', etc. To the right, a table titled 'Raw Data Log: 2 records' displays search results with columns for Date/Time, FEP No., Rec. No., Line No., Rec. Code, Event Data, Rec. Line, and TX ID.

Date/Time	FEP No.	Rec. No.	Line No.	Rec. Code	Event Data	Rec. Line	TX ID
02/06/2007 13:23:41	1	5	1	DMP	25F0101 2179 Zq\062\1 "DP\w	00	2179
02/06/2007 13:12:09	1	5	1	DMP	25F0101 2179 Zq\062\1 "DP\w	00	2179

Search criteria

Search results

FEP list

Date and Time Searches

Date and Time parameters can be set using the drop down boxes in the date and time area of the filter display.

Search for a Date and/or Time

1. To restrict the search results to a certain date or time, select the date and/or time from the drop-down calendar.
2. Check the "Time Range" box.
3. Click on the Search button.

Reverse Search Results

The Reverse check box is by default checked. This will display the most recent activity at the top of the list. To list the oldest activity first, uncheck the Reverse box.

FEP List

A FEP list similar to the Navigator window appears to the left of the log display. This window lists all FEPs and the corresponding receivers (REC) and enables the user to determine the source of data displayed from all available raw data acquired by the system. Criteria may be as broad as an individual FEP or as narrowed down as a specific receiver line (RL). To select a parameter for a raw data search, simply click on the appropriate FEP, receiver or receiver line.

Users may only search with one parameter at a time. For example, only one FEP may be selected for a search; users may not select both FEPs for a search.

Time Zone Searches

Central stations which have operations spanning several time zones may wish to use the Time Zone search to search for activity in a certain time zone. Any Daylight Savings time settings are automatically updated by the Manitou system clock.

Receiver Line Prefix and TX ID Searches

Users may specify a particular Receiver Line Prefix or a Transmitter ID (TX ID) to search for in the raw data. Select the Receiver Line Prefix from the pre-populated drop-down menu, or enter the Transmitter ID into the text field. Click the Search button to execute the search.

Manual Signal

The **Manual Signal** function enables a user to send a simulated signal to Manitou of an alarm or event as though the signal had actually been received from a customer or other external source. A Manual Signal is most often used for testing Manitou's response to various types of signals, event programming and alarm handling. Manual Signal can also be used to manually enter and record an event that has been reported to the Central Station via a phone call or following the observation of an event on a CCTV monitor. The Central Station supervisor will inform the Operator of specific procedures that may apply to the Central Station concerning the use of Manual Signal under such circumstances.

Select the Manual Signal function by first clicking on the Tools menu and selecting "Manual Signal." The Manual Signal form will appear:

The screenshot shows the 'Manual Signal' form with the following details:

- Customer:** Fields for 'Customer ID' (with a search icon) and 'Name'.
- Transmitters:** A table with columns: Number, Description, Transmitter ID, RL Prefix.
- Signal Time:** Radio buttons for 'Use Current Time' (selected) and 'Specify Time'. Date: 06/13/2007, Time: 14:02.
- Manual Signals:** A dropdown for 'Monitoring Group' (Monitoring Group 0) and a table with columns: Event, Description, Area, Zone, Sensor, User No., Point ID.
- Buttons:** 'Send Signal - F5' and 'Clear'.
- Tabs:** 'Manual Signal', 'FEP Manual Signal', 'Customer Logs'.

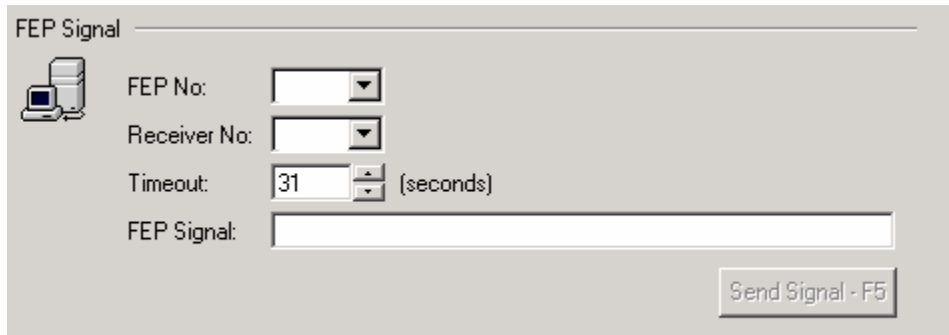
1. To begin generating a Manual Signal, first enter the Customer ID into the Customer ID field. If the Customer ID is not known, click on the magnifying glass to search for the Customer ID. Once it is located, click Load to load the Customer ID. The name of the customer will automatically fill into the Name field.
2. Once the Customer ID is loaded, the Transmitters for that account will also load. Select the appropriate Transmitter to use by clicking on the Transmitter in the Transmitters form.
3. Specify the Date and Time for the Manual Signal. If the current time is to be used, select "Use Current Time." Use the "Specify Time" option to change the time stamp to a past time when sending the manual signal. This option has no affect if is changed to a future time. Users may only backdate the time in the specify time option for there to be any affect on the manual signal.
4. In the Manual Signals form, ensure the correct Monitoring Group is entered.
5. Click in the Event cell to bring up the drop-down arrow.
6. Select the Event from the drop-down menu. The Description of the Event will

automatically load into the Description field.

7. If the Event should be in a specific Area, select that Area from the drop-down menu.
8. If the Event should occur in a specific Zone, select the Zone from the drop-down menu.
9. When the selections have been made, click on the Send Signal button at the bottom of the form, or hit F5 on the keyboard. Manitou will confirm that the signal has been sent and the Event will appear in the Alarm Queue as though it had been generated directly by the customer's equipment. In the customer logs, it will be identified as a manually generated signal.

FEP Manual Signal

The **FEP Manual Signal** tab allows manual signals to be sent through the FEP for testing and troubleshooting purposes.




1. Select the FEP number from the FEP No: drop-down menu.
2. Select a Receiver number.
3. Enter the timeout (in seconds).
4. Enter a signal to send to the FEP.
5. Click Send Signal or hit F5 on the keyboard. The signal will now be sent to the FEP.

Customer Logs

The **Customer Logs** form in the Manual Signal window displays the Customer's recent activity. It is used as a quick way to view the Manual Signal once it has been generated and received by Manitou. Once it is received, the Manual Signal will appear in the log. To refresh the log view, simply click on the Refresh button located above the logs.

Customer Activity Log - 120906 - Anna Haiar



Refresh

Date	Time	Log Description
06/13/2007	10:35:02	SYSTEM TEST - Completed (2 Zones Not Received) [test]
06/13/2007	10:34:13	SYSTEM TEST - Completed (2 Zones Not Received)
06/13/2007	10:33:00	SYSTEM TEST - Started
06/13/2007	10:07:03	SYSTEM TEST - Completed (2 Zones Not Received)
06/13/2007	10:06:50	SYSTEM TEST - Started
06/12/2007	13:21:10	TRANSMITTER - Added TX: 1

Change Customer ID

The **Change Customer ID** function provides the ability to quickly change the customer ID (or contract number) of an existing customer without creating a new account.

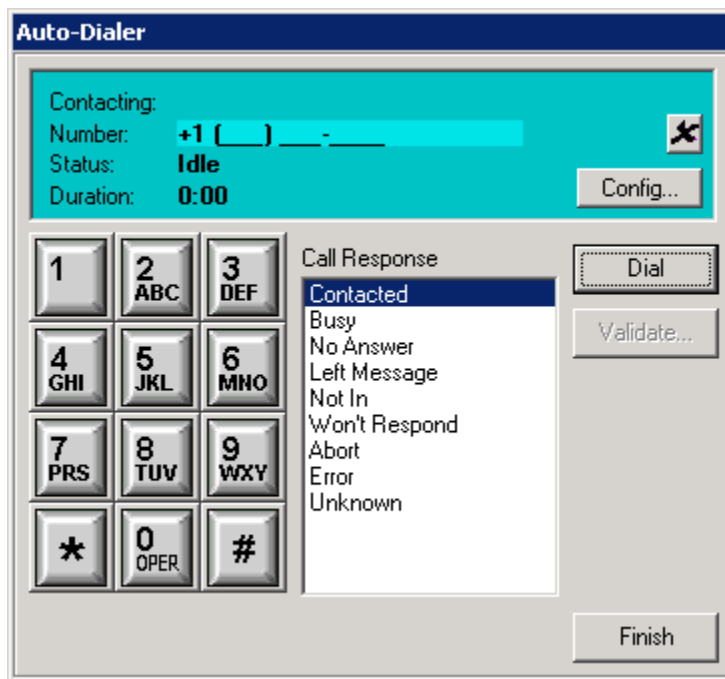
1. Select the Tools option from the menu at the top of any Manitou screen.
2. Within the drop-down menu select Change Customer ID. The Change Customer Contract No. screen will display:
3. If the Customer ID is known, enter it into the Customer ID field. If the ID is unknown, click on the magnifying glass next to the Customer ID field to search for the customer. The Find Customer screen will display:
4. Within the Search Criteria section of the screen, select a Search Key from the drop-down menu and enter in a Value. If search values are unknown, enter an asterisk (*) into the search field.
5. Click the Search button. Customers that meet the search criteria will display under the Search Results area of the screen
6. Search the list of customers and click on the customer name.
7. Click the Load button. The Change Customer Contract No. screen will display with the selected customers ID and name.
8. To change the Customer Contract Number/Customer ID, enter in the new customer ID into the New Customer ID field at the bottom of the Change Customer Contract No. screen.
9. Click the Change button.
10. Verify the password and click OK.
11. Confirm the Customer ID change by clicking OK on the Confirm Customer ID change box.

If the New Customer ID number was not successfully changed, an error screen will appear. Press the OK button and the Change Customer Contract No. screen will display. Enter in a different New Customer ID and press the Change button. Possible errors may be caused by not entering in a unique customer ID or if an alarm is queued for the customer.

Phone Dialer

If Manitou is connected to the phone system at the Central Station, Operators may use the **Phone Dialer** (also called the Auto-Dialer) function to call a contact manually by entering and then dialing the phone number using the Auto-Dialer keypad. The Auto-Dialer function is also used when executing certain types of Action Patterns in alarm handling. Further information on using the Auto-Dialer during alarm handling can be found in the Alarm Handling section of this manual. Please note that if the dialer is not configured, the dialog will not attempt to auto-dial. The Auto-Dialer can be configured by clicking on the "Config" button located in the top portion of the form.

1. Open the Phone Dialer by first selecting the Tools menu, and then selecting Phone Dialer. The Phone Dialer will appear:



2. Enter the phone number of the contact using the numeric keys displayed in the Phone Dialer window. Users may either use the number keypad on the keyboard or click on the actual number buttons to enter the phone number. The number currently being entered will appear in the number field of the call status window.
3. Once the phone number is entered, click on Dial. **Note:** Do not hit Enter on the keyboard to dial the call, as this will close out the Phone Dialer.

The phone number will now be dialed as entered. The status of the call and its duration are displayed in the call status window.

4. Once the call is completed, click on the Finish button. The call will be terminated and the line disconnected. If finished using the Phone Dialer, hit enter or click on the Finish button to close the Phone Dialer.

Note: Clicking the "Dial" button will log the call in the customer log, but the user will not be able to hang up until the Finish button is clicked, which will then force a hang up.

Dealer Takeover

Dealer Takeover allows one Dealer to take over all of the customers (and sub-Dealers) of another Dealer. If successful, the taken-over Dealer will be deleted. Information such as transmitter types allowed, control panels allowed, and reverse protocols will be moved to the inheriting Dealer. If the inheriting Dealer does not have a system account and the taken-over Dealer does, the inheriting Dealer will inherit the system account. If both Dealers have a system account, the take-over Dealer's system account will simply be deleted. However, the last week of alarm and signal activity will be copied to the inheriting Dealer's system account.

Dealer Takeover

Password (Type password and press the Enter key)

Dealers

Source Dealer ID:

Destination Dealer ID:

Customers

Customer ID	Name	Delete Status
-------------	------	---------------

Takeover Cancel

In order for Dealer Takeover to be active, the correct permissions must first be set up in the Supervisor Workstation profiles. In the Supervisor Workstation, select Maintenance > Setup > Permissions. From here, determine what profiles (Administrator, Operator, etc.) should be allowed to utilize Dealer Takeover. Set the permissions to Visible/Enabled, and save the changes. Note: Users must log out and log back in to the Operator Workstation in order for changes to take place.

Back in the Operator Workstation, select Dealer Takeover from the Tools menu. The Dealer Takeover form will appear:

Dealer Takeover

Password (Type password and press the Enter key)

Dealers

Source Dealer ID: AAA Alarm Security Services

Destination Dealer ID:

Customers

Customer ID	Name	Delete Status
▶ 3001	Cards and Comics	
DLR0001-DEF	AAA Alarm Security Services -	
XML000002	Radio Shack	
XML001003	Genesis	

Takeover Cancel

Enter the user's password, and press Enter. This will enable the user to search for source and destination Dealers.

Select the Source Dealer (the Dealer that is being taken over). Then, select the Destination Dealer (the Dealer that is taking over the inactive Dealer's accounts).

Dealer Takeover

Password (Type password and press the Enter key)

Dealers

Source Dealer ID: AAA Alarm Security Services

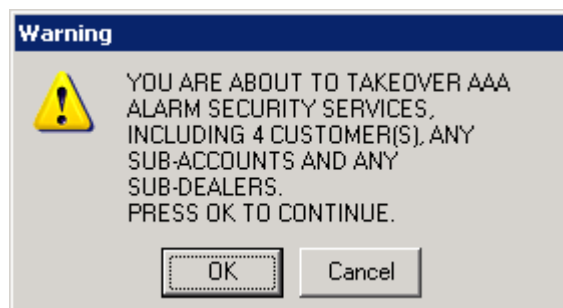
Destination Dealer ID: TEST1

Customers

Customer ID	Name	Delete Status
3001	Cards and Comics	
DLR0001-DEF	AAA Alarm Security Services -	
XML000002	Radio Shack	
XML001003	Genesis	

Takeover Cancel

Click the Takeover button to begin taking over the Source Dealer's accounts. A warning will appear:



Click OK to continue the takeover.

Verify Password

Password verification is found easiest by clicking on the Tools menu and selecting "Verify Password." The Password Verification button is enabled when there is a customer context in the following forms:

- Customer

- Manual Signal
- Paged Contacts
- Pre-cancel
- Temporary Comments
- Temporary Schedule

Note: In the alarm form, this triggers the Actions > Validate Password menu item.

Users may also utilize the Question/Answer mode as an alternative to having to provide a password. Only customer contacts, agencies, and agency contacts are allowed to have questions; this means that the question mode is only enabled for the Customer (Keyholder), Technician, Agency, and Unknown verification options. This is displayed in the log as “VERIFICATION – Customer Question Answered Correctly”. The new Verify Password toolbar button is also enabled when there is an entity loaded on the Agency, Branch, Company, Dealer, and Global Keyholder forms, allowing the operator to directly validate these entities’ contacts as well.

Customers that appear on other customers' contact lists can now be validated in the Verify Password dialog, either via their general/duress passwords or the passwords of their contacts. They may also now have their own set of access permissions and valid date ranges, which are merged with those of their contacts, similar to what is already done for Agency contacts.

Operations Menu

The **Operations Menu** contains all functions and actions for alarm handling, including viewing the Alarm Queue, setting up temporary schedules, and putting the system into Disaster Mode.

Alarm Handling

From the **Alarm Handling** screen, the Operator can process an alarm using pre-programmed action patterns as well as additional information, such as contact lists or special notes for an account. Though the Alarm Handling screen is accessible from the Operations menu, it is more likely that the Operator will access the Alarm Handling screen from the Alarm Queue by double-clicking on an alarm that enters the Alarm Queue.

There are two ways to access the Alarm Handling screen:

1. If an alarm becomes available in the Alarm Queue, Operators can double-click on the alarm, which will bring them to the Alarm Handling.
2. Operators may bring up the Alarm Handling screen by clicking on the Operations menu and selecting Alarm Handling.

Note: If an alarm becomes available while viewing the Alarm Handling screen, a pop-up window alerting the user of the new alarm will appear. To accept the alarm, click Yes. The alarm information will be presented on the Alarm Handling screen.

Normal Alarm Handling Screen

The screenshot shows the 'Normal Alarm Handling Screen' with the following components:

- Customer Info:** A section with a profile icon and a label.
- Alarm Info:** A section with a label and a text input field.
- Customer Logs:** A section with a folder icon, radio buttons for 'Week' and 'Month', and a 'More' button.
- Main Content Area:** Contains radio buttons for 'Status', 'Comments', 'Action Pattern', 'View All Contacts', and 'View All Call Lists'. Below these are two empty table-like structures with headers.

Action	
--------	--

Date	Time	Log Description	User ID
------	------	-----------------	---------

Alarm Handling Screen when Alarm is Displayed

Customer Info

11 - Shaun Blair
 3649 Boy Scout Rd.
 Bay City
 MI 48706
 Cross Street: Euclid
 Subdivision: None

Dealer Info

DL00000050 - Dealer 50
 Site: (989) 450-1234

Alarm Info

Burglary Alarm
 Priority: 4 Alarm Time: 05/23/2007 15:08
 Area: 1
 RL Prefix: 03 Tx ID: 11111

Status **Comments**

Alarm In Alarm(45)
 Monitoring Active - 05/15/2007 10:18 - Main Account
 UL Grade CSBG - Response Time: 1
 Time Zone Mountain Time (US & Canada)
 TX 1 Line 2 Network: Fail
 Service Full
 Area 1 Open - 04/18/2007 14:21

Action Pattern - 123456

Action Pattern View All Contacts View All Call Lists

	Action
1	CONTACT CUSTOMER AT E-MAIL 'SHAUNB@BOLDGROUP.COM' WITH ATTENTION: THIS IS AN ATTENTION LINE.
0	SHOW PLANS
0	CONTACT CUSTOMER KEYHOLDER 'SHAUN BLAIR' AT E-MAIL WITH

Customer Logs

Date	Time	Log Description	User ID
05/28/2007	17:41:01	ALARM - Late-To-Test (*LT) A: 1 Key: *LT	
05/28/2007	17:00:03	ALARM - Late-To-Close (*LC) A: 1 Key: *LC OA: 1 Dup-Event	
05/28/2007	15:23:00	ALARM - Late-To-Test (*LT) TX: 4 A: 1 Key: *LT	
05/28/2007	10:40:02	ALARM - Late-To-Test (*LT) TX: 3 A: 1 Key: *LT	
05/28/2007	10:40:02	ALARM - Late-To-Test (*LT) TX: 2 A: 1 Key: *LT	
05/28/2007	01:01:01	ALARM - Late-To-Test (*LT) A: 1 Key: *LT	

By storing information about Customers, Dealers, Authorities, Call Lists, Action Patterns, Receivers, Transmitters and Signal Programming, Manitou is able to provide crucial information in the Alarm Handling screen. This enables Operators to handle alarms efficiently while providing the system with enough data to automate alarm processing.

There are several ways Manitou and Operators can handle alarms. For example, Manitou can automatically run Action Patterns when a specific alarm is received into Manitou. However, many other types of alarms require Operator action. While Manitou speeds up the processing of these alarms by displaying pertinent information, ultimately alarm handling falls onto the responsibility of the Operator.

There are two main screens involved in Alarm Processing:

- Alarm Queue
- Alarm Handling screen

The Alarm Handling screen displays alarm and customer information, action patterns, a customer activity log, and other informational pieces used to process alarms. As previously mentioned, Operators can process alarms from the Alarm Queue. When an alarm is made available (or a signal is received), it will appear in the Alarm Queue. For a further description of the Alarm Queue, see the Operations: Alarm Queue section of this manual.

Once an alarm or signal is received, Operators can manually select alarms by double-clicking on the individual alarm. **Note:** The Operator Workstation may be set to Auto-Get alarms so that available Operators automatically receive new alarms as they arrive.

Alarm Handling Options

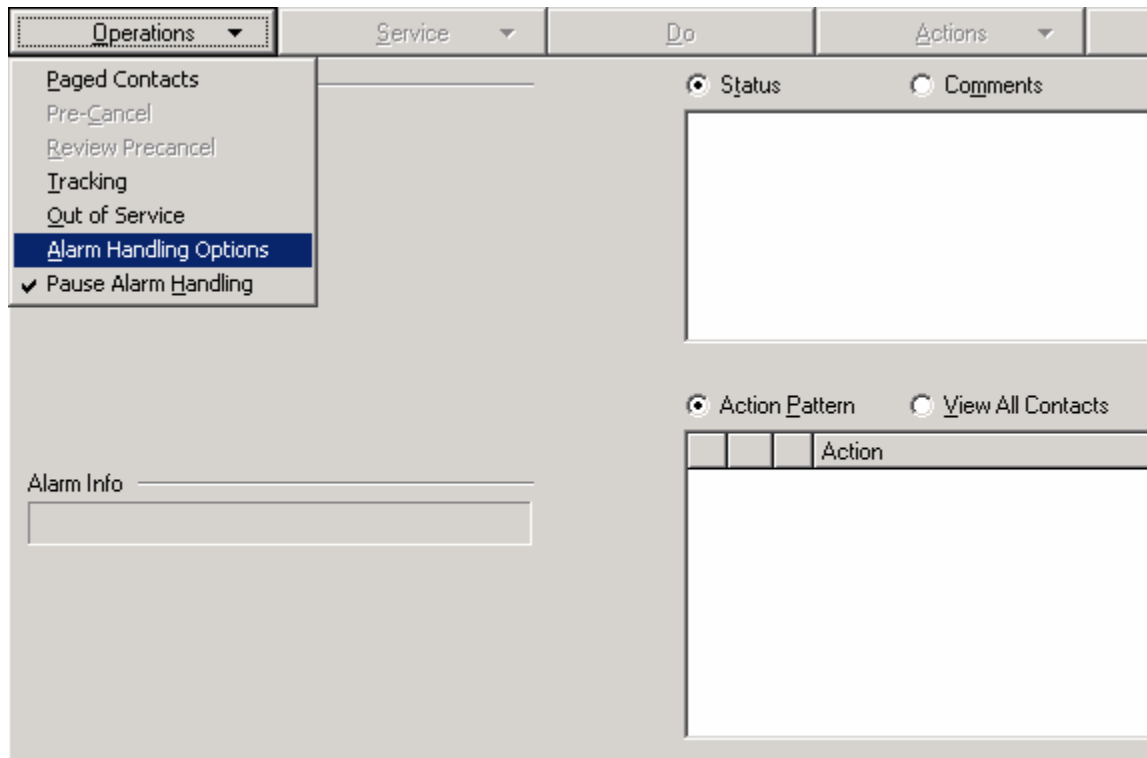
When an alarm arrives in the Alarm Queue, the Operator has several options to handle the alarm:

- Auto Get Alarms
- Defer
- Suspend
- Defer to Auto-Client
- Tracking
- Action Patterns

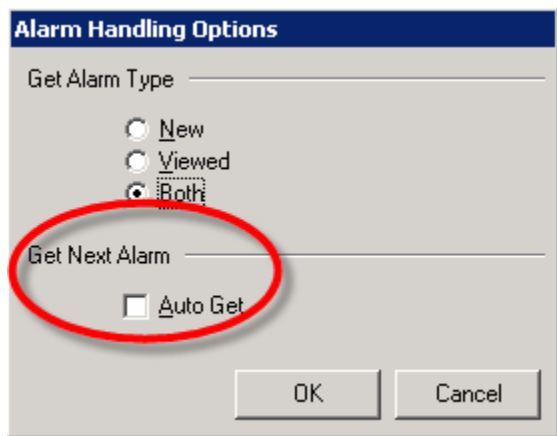
Auto Get Alarms

When this option is set and an alarm appears in the queue, the alarm is automatically presented to the Operator if he or she is available. If the Operator is busy handling another alarm, the next available Operator will receive the new alarm.

1. To set Manitou to Auto Get Alarms, open the Alarm Handling screen, and click on the Operations menu:



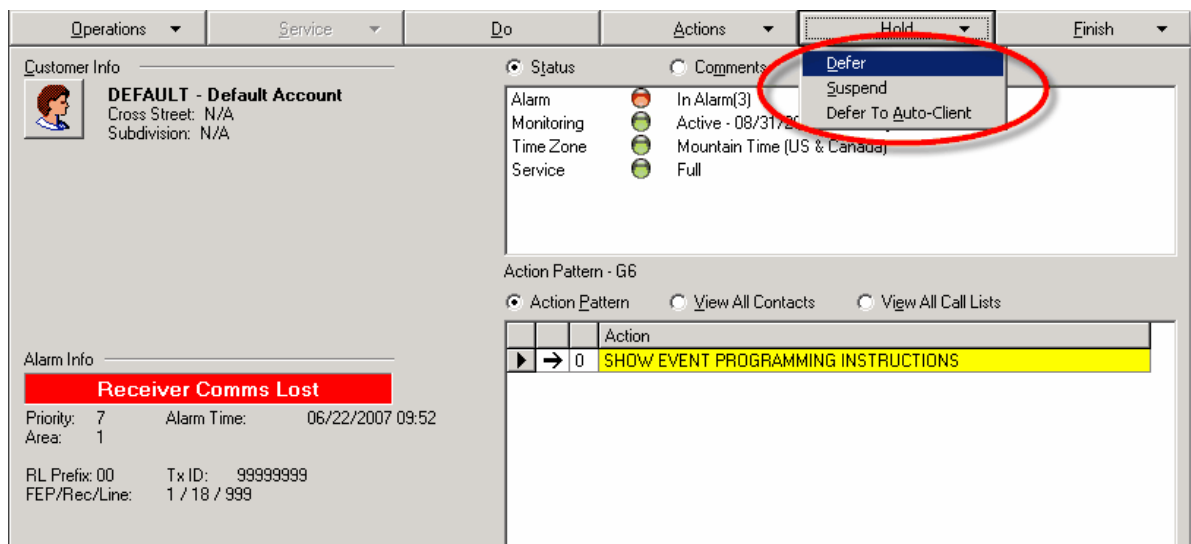
1. Select Alarm Handling Options. The Alarm Handling Options box will appear:



2. Check the Auto Get box under "Get Next Alarm." Auto Get Alarms is now set.

Defer

If an alarm is presented to an Operator who cannot handle it at that time, the Operator may **defer** the alarm back to the Alarm Queue, making it available for other Operators to handle. Select the Hold menu on the Alarm Handling screen:



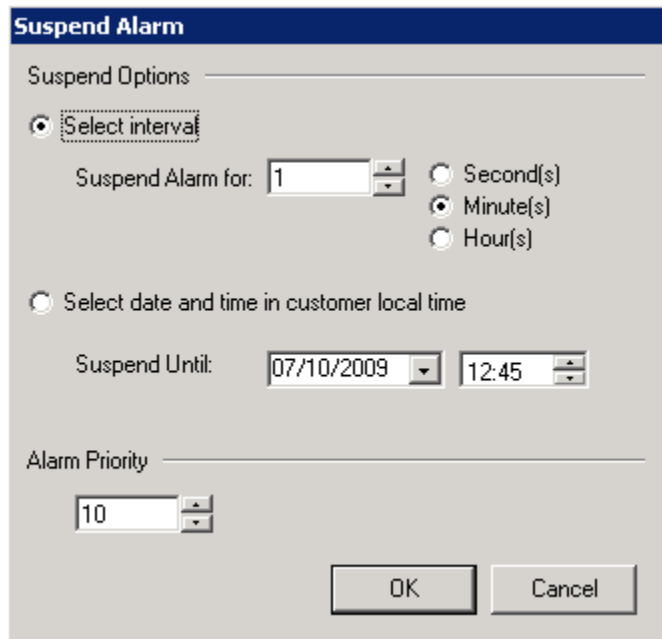
Select Defer. The alarm will now be sent back to the Alarm Queue. This option is only available when the Operator wishing to defer the alarm has already accepted the alarm from the Alarm Queue.

Suspend

If a signal, such as a trouble restore is received and the Operator wishes to see if the signal resolves itself, he or she may **suspend** the alarm for a number of seconds, minutes or hours.

1. Click on the Hold menu in the Alarm Handling Screen.

2. Select Suspend. A Suspend Alarm window will appear:



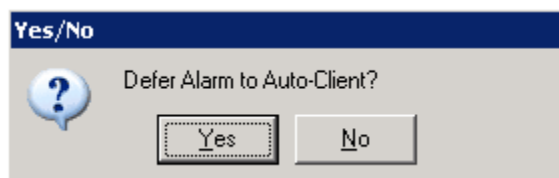
The screenshot shows a dialog box titled "Suspend Alarm". It has two main sections: "Suspend Options" and "Alarm Priority". In the "Suspend Options" section, the "Select interval" radio button is selected. Below it, there is a spinner box containing the number "1" and three radio buttons: "Second(s)", "Minute(s)" (which is selected), and "Hour(s)". Below these is an unselected radio button labeled "Select date and time in customer local time". Underneath, there are two spinner boxes for "Suspend Until": the first shows the date "07/10/2009" and the second shows the time "12:45". In the "Alarm Priority" section, there is a spinner box containing the number "10". At the bottom right, there are "OK" and "Cancel" buttons.

3. Enter the number of seconds, minutes or hours to suspend the alarm. If the alarm's priority must change, set the alarm priority.
4. Click OK. The alarm will show as suspended in the Alarm Queue.

Users may also choose to suspend the alarm until a specified date and time. Please note that selecting this option will cause duplicate alarms to also be suspended until the set expiration date. Additional duplicate alarms will not unsuspend the suspended alarm, as is the case with the "Select interval" suspend option.

Defer to Auto-Client

When **Defer to Auto-Client** is chosen, this option sends the alarm to be processed by the Auto Client application based on pre-configured rules and handling procedures. Select Auto-Client by first selecting the Hold menu, then selecting "Defer to Auto-Client."



The screenshot shows a small dialog box titled "Yes/No". It contains a question mark icon on the left and the text "Defer Alarm to Auto-Client?" in the center. Below the text are two buttons: "Yes" and "No". The "Yes" button is highlighted with a dashed border.

Confirm the defer. The alarm will now be handled by Auto-Client.

Tracking

The **Tracking** form enables an Operator to direct all alarms for a particular customer to the Operator for a period of time. For more information on tracking, see the Operations: Tracking

section of this manual.

Action Patterns

Typically, **Action Patterns** are most often used to handle alarms. For more information on action patterns, see the Operations: Process an Alarm section of this manual.

Alarm Handling Menus

When displayed, the Alarm Handling screen contains several menus located at the top of the screen. These menus can be used to process and complete alarm handling. The menus can be accessed either by clicking directly on the menu to display available menu options or by using keystrokes. Underlined letters indicate available keystrokes for each menu. Using keystrokes may speed up the alarm handling process.

Operations Menu

- **Paged Contacts** - Displays a list of all individuals paged regarding the current alarm on the Alarm Handling screen.
- **Pre-Cancel** - Allows the Operator to enter Pre-Cancel information from the alarm record. For more information on Pre-Canceling alarms, see the Operations: Pre-Cancel section of this manual.
- **Tracking** - Operators can track alarms for specific customers. For more information on alarm tracking, see the Operations: Tracking section of this manual.
- **On Test** - Occasionally, it may be necessary to place an account out of service from the Alarm handling screen. Selecting On Test will bring the Operator to the On Test screen, where On Test information can be entered. For instructions on placing accounts out of service, see the Operations: On Test section of this manual.
- **Alarm Handling Options** - Selecting Alarm Handling Options will bring up the Options window, allowing the Operator to set preferences for the way alarms are presented in Manitou. These settings should be based on Central Station needs and preferences.
 - In the *Get Alarm Type* section, select the option most appropriate for the Central Station. If the Operator should only receive new alarms, select "New Alarms." If the Operator can access Viewed alarms (which includes suspended and deferred alarms), select "Viewed." If the Operator can access both, select "Both."
 - If the Central Station requires available Operators to take and process alarms immediately, check the Auto-Get Alarms checkbox. This forces Operators to handle alarms as quickly as possible after the signals arrive in the Alarm Queue.

Service Menu

This function is not yet available.

Actions Menu

- **Do** - The Do command (also accessed by typing "d" on the keyboard) initiates processing the selected item in Action Patterns. This command also opens the prompt or dialer window associated with that action. Selecting "Do" a second time will proceed with the action. After the action item has been completed, the Do command may be used to record return-communications from the customer.
- **Action** - The Action command ("a" on the keyboard), opens the Actions drop-down menu. Clicking Actions again will proceed with the action on the open Action Pattern item, such as dialing the phone, sending a page, etc. If an action needs to be performed again after completion, the Action command can be used again. For example, if a customer needs to be called again, click "a" or "Action" to re-action the item.
- **Ignore** - The Ignore command ("i" on the keyboard) allows the Operator to skip an action item during alarm handling. The action will turn gray when ignored.
- **Call In** - The Call In command ("c" on the keyboard) allows the Operator to indicate that a contact called the Central Station. This will appear in an entry in the Customer Activity Log.
- **View All Contacts** - The View All Contacts command (or "v" on the keyboard) is used to change the view from the Action Pattern to the entire list of the customer's contacts.
- **Validate Customer Password** - This command ("p" on the keyboard) brings up the password validation screen. The customer or contact must give the name and password, and it should be entered into the validation form. Enter any pertinent notes and click OK to close the form and continue handling the alarm. Additionally, some action items may automatically bring up the password validation screen.
- **Add Comment** - The Add Comment command ("m" on the keyboard) can be used to enter a comment about the current alarm. The comment will be logged into the Customer Activity Log with the rest of the alarm activity information.
- **Add Temporary Comment** - This command ("t" on the keyboard) is used to enter a temporary comment for the customer record. Indicate the duration of the temporary comment using the date and time fields. The temporary comment will appear in the notes tab of any further alarms for the customer during the duration set for the comment.
- **Reverse** - Use the Reverse command ("r" on the keyboard) in connection with the Reverse Channel command. This allows the Operator to send a signal from Manitou to the transmitter to test communication.
- **View Customer** - The View Customer command ("v" on the keyboard) will open the customer record for viewing only.

- **Edit Customer** - This command ("e" on the keyboard) will open the customer record for viewing and editing.
- **Add Temporary Schedule** - This option ("s" on the keyboard) will add a temporary schedule to the customer. Selecting this option will bring the user to the Temporary Schedule screen. See the Operations: Temporary Schedule section of this manual for more information on setting up temporary schedules.

Hold Menu

- **Defer** - This command returns the open alarm to the Alarm Queue to be handled by the next available Operator
- **Suspend** - The Suspend command puts the open alarm on hold but unavailable to other Operators.
- **Defer to Auto-Client**- This command sends the alarm to the processed by the Auto Client application based on pre-configured rules and handling procedures.

Finish Menu

- **Close** - This command ("c" on the keyboard) should be used after all actions in the action pattern have been completed.
- **Operator Cancel** - The Operator Cancel command ("o" on the keyboard) will cancel an alarm. This command may be used, for example, if an engineer sends a test signal from a customer site. Enter a resolution code and pertinent notes regarding why the alarm was canceled.
- **Customer Cancel** - This command ("c" on the keyboard) will cancel an alarm if the customer calls to say the alarm was false.
- **Forward** - This command allows the Operator to forward the alarm to another specified Operator rather than deferring the alarm back to the Alarm Queue or suspending the alarm.

Process an Alarm

1. When an alarm appears in the Alarm Queue, double-click on the alarm to open the Alarm Handling screen. The Alarm Handling screen shows the customer's current status in the upper right corner.
2. In the Action pattern area, launch the first action. If necessary, Operators can ignore a particular action by right-clicking on the action line and selecting "ignore."

There are three ways to launch the action:

- Press the 'd' key on the keyboard (for "do")
- Use the mouse to select 'Do' from the tool bar.
- Double-click the first line of the action pattern.

3. Choose one of these three items to launch the first action.
4. Depending on the type of action, another screen may appear, such as a prompt window with notes or the Auto-Dialer, showing the phone number being dialed by the Auto-Dialer feature.
5. Click through each action and complete all list of items.
6. To close the alarm, click finish at the top right of the application view, and select the type of alarm to close from the list.
7. Enter any comments that may be pertinent to the alarm into the comments window.
8. Select the appropriate resolution code (or codes) from the drop-down lists.
9. If prompted, enter the Operator or Customer password and validate the password.
10. Click OK to close the alarm

Note: If the system is set to forced alarm handling the next available alarm will appear for the Operator to process. If not, return to the Alarm Queue and select the next alarm in the Queue.

Example: Processing a Fire Alarm

1. Select the fire alarm from the Alarm Queue.
2. Double-click on the first action in the Action Pattern. The first action is "contact customer using Call List Customer Fire." Double-clicking on this action opens a sub-list with three actions:
 - Contact Customer
 - Contact Fire Department
 - Contact Primary Keyholder
3. Double-click on the first action (Contact Customer) opens the Auto-Dialer, dialing out to make the first contact. The customer tells the Operator that the Fire Alarm signal was a false alarm, and gives the password to validate this information
4. Click Finish to close the Auto-Dialer.
5. Enter the customer's password into the Validate field.
6. Enter comments into the comment field.

7. Check the boxes for Cancel Alarm and Close Alarm.
8. Use the drop-down fields to select a Resolution Code (in this case, "FA" for False Alarm.)
9. Click Validate. The alarm has now been processed and closed. All comments are entered into the Customer Activity Log and the Operator is returned to the Alarm Handling screen.

In situations where there are multiple contacts or actions to perform, each contact will be handled similarly until every contact or action in the action pattern has been completed. If a contact is unreachable, the Operator will note this before moving on to the next action. If necessary, the Operator may use the View All Contacts button, located next to Action Patterns, to select other contacts or get alternate numbers.

If the alarm is not handled within the required time-out period (which varies for each alarm type), Manitou will prompt the Operator that the alarm will be deferred. A deferred alarm returns to the Alarm Queue and is forwarded to the next available Operator. An Operator who is busy may choose to manually defer an alarm and allow another Operator to handle the alarm.

An Operator may also choose to suspend an alarm while performing other tasks. Selecting the Hold menu and then selecting "Suspend" will bring up a dialogue box. Select the time period to suspend the alarm. When that time expires, Manitou will prompt the Operator again to handle the alarm.

Maintenance Issues While Handling Alarms

If in the event an unresolved maintenance issue displays when handling the alarm, users may close the maintenance issue dialog by pressing the "Esc" key, or by clicking OK.

Processing Different Types of Action Pattern

The Action Pattern is the main processing center for handling alarms. When handling alarms, it will be necessary to handle specific Action Patterns based on the alarm that arrives in the system.

- **Keyholder Contact Action Patterns** - Some contacts in the Action Pattern on an alarm may be Keyholders for the account. This Action Pattern is handled exactly like regular contacts. With the action highlighted, double-click on the Keyholder. The Auto-Dialer will appear. Click Dial to initiate the call. When the action is completed and a resolution has been validated, close the alarm.
- **Authorities Action Patterns** - If an action pattern involves contacting an Authority, it is required to enter whether the Authority has been Dispatched or Not Dispatched. Click on the appropriate button.
- **Dealer Contact Action Patterns** - Handling Dealer Contact Action Patterns is the exact same as any other action pattern with the exception that Dealer Action Patterns are configured to be specific to the Dealer record. When a Dealer is associated with a customer

record, the Dealer Action Pattern becomes available to associate with event types in that customer record.

- **Branch Action Patterns** - Handling Branch Action Patterns is the exact same as any other action pattern with the exception that Branch Action Patterns are configured to be specific to the Branch record. When a Branch is associated with a customer record, the Branch Action Pattern becomes available to associate with event types in that customer record.
- **Log Action Patterns** - A Log Action Pattern does not require that calls be made or any Authority be dispatched. It simply shows up as part of the Action Pattern on an alarm and is entered into the Customer Activity Log. It does not require any specific attention or action.

Retransmission

Retransmission is the act of forwarding alarm information to a receiver through a Manitou action pattern utilizing the FEP. The receiver may then forward this information to interested authorities, persons, agencies, etc. In the following examples, the Bold XML receiver driver is illustrated since it does not enforce any validation for reverse commands; what it gets, is what it sends. Retransmission commands, however, are not limited to the Bold XML driver.

Service Provider Devices

The service provider device links a contact point to the reverse command for transmission. This is done in the Supervisor Workstation under Maintenance → Setup → Service Provide Devices.

The screenshot displays the 'Service Provider Devices' configuration window. On the left, a tree view lists several device types, with 'BOLD XML - Bold XML Retransmission' selected. On the right, the configuration fields for this device are shown:

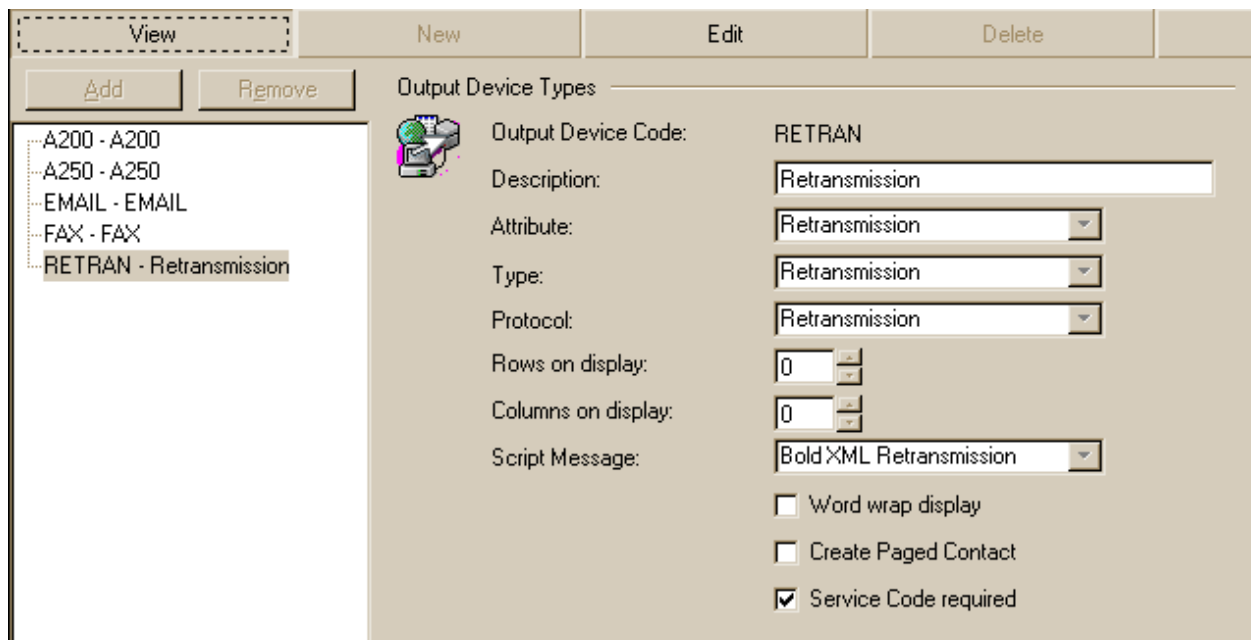
- External Device:** BOLD XML
- Description:** Bold XML Retransmission
- Protocol:** Retransmission (dropdown menu)
- Address:** [Empty text field]
- ID:** [Empty text field]
- Dial-up Service
- Port Settings:** [Empty text field]
- Account Name:** [Empty text field]
- Password:** [Empty text field]
- Reverse Protocol:** Bold XML (dropdown menu)
- Reverse Command:** Alarm Retransmission (dropdown menu)
- Reverse Route:** Bold XML Driver (dropdown menu)

The following values are required:

- Protocol: this must be set to 'R' (Retransmission).
- Reverse Protocol: this defines the type of reverse command requested, which identifies the actual commands available.
- Reverse Command: the reverse command to be transmitted.
- Reverse Route: the location of the FEP driver to use.

Output Device Types

The output device type facilitates the retransmission contact point setup to link to a service provider device. Furthermore, it can tie a default script message if a script message is not linked to a specific contact point. This is done in the Supervisor Workstation: Maintenance → Setup → Output Device Types.



The screenshot shows the 'Output Device Types' configuration window. The window has a menu bar with 'View', 'New', 'Edit', and 'Delete'. Below the menu bar are 'Add' and 'Remove' buttons. A list on the left shows device types: 'A200 - A200', 'A250 - A250', 'EMAIL - EMAIL', 'FAX - FAX', and 'RETRAN - Retransmission' (which is selected). The main area shows configuration for 'RETRAN': Output Device Code: RETRAN; Description: Retransmission; Attribute: Retransmission; Type: Retransmission; Protocol: Retransmission; Rows on display: 0; Columns on display: 0; Script Message: Bold XML Retransmission. There are three checkboxes at the bottom: 'Word wrap display' (unchecked), 'Create Paged Contact' (unchecked), and 'Service Code required' (checked).

The following values are required:

- Attribute: this must be set to 'R' (Retransmission).
- Type: this must be set to 'R' (Retransmission).
- Protocol: this must be set to 'R' (Retransmission).
- Service Code Required: this must be set to facilitate linking a contact point to a service provider device.

The following value is optional:

- Script Message: defines a default script message for transmission. Note: the associated reverse command must include the script message as a parameter in order for the script message to be sent.

Reverse Commands

The reverse command specifies the data to send, as well as, the protocol, or format, the data is in so that receiver will understand it. To set up a reverse command, go to the Operator Workstation and select Maintenance → Monitoring Company – Reverse Commands.

Details							
	Field Type	Data	Label	Range	DB Value	Default	Form
▶	Database	Text	Retransmission Point		Contact Point		
	Database	Text	Alarm Script		Script Message		

Value descriptions:

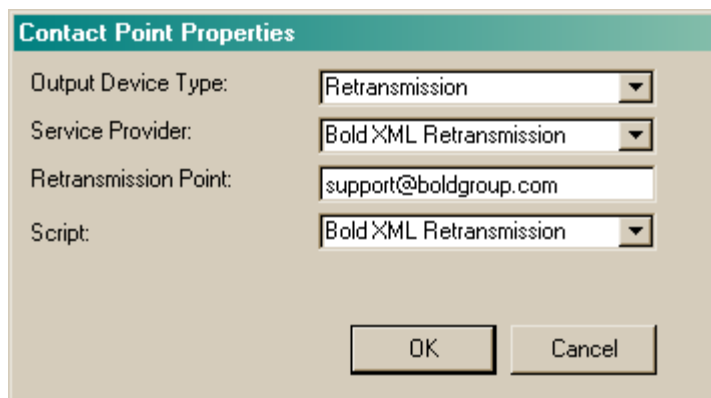
- Type: this is the protocol type. Bold XML, in this case.
- Group: retransmission commands do not specify a group.
- Command: this is any command mnemonic understood by the receiver to identify the request. ALM for this example.
- Description: a meaningful description of the command
- User Group: defines what class of user (and above) have access to the command
- Response Type: currently, all FEP reverse commands are asynchronous (delayed)
- Response Delay: defines the number of seconds the FEP should wait for a response to the command from the receiver until it considers it timed out.
- Command Level: must set to Customer.
- Command Detail: determines how specific the reverse channel route needs to be to send the command
- Availability: retransmission is for alarms only, so Alarm Only must be checked.
- Attributes: Retransmission must be checked.
- Optional Parameters: many optional parameters may be included. The Contact Point

and Script Message database parameters are illustrated since they can only be used in conjunction with a retransmission command.

- Contact Point: this is the contact point associated with the retransmission (may point to a pager, email address, etc)
- Script Message: this is the script message attached to the contact point, or the default script message attached to the output device type.

Contact Point

Retransmission contact points may be added directly for a customer, customer persons, etc. When adding the contact point, select the retransmission contact point type set up in the Supervisor Workstation. Retransmission contact points must be set up using the Contact Point Properties dialog.



Contact Point Properties

Output Device Type: Retransmission

Service Provider: Bold XML Retransmission

Retransmission Point: support@boldgroup.com

Script: Bold XML Retransmission

OK Cancel

The following values are required:

- Output Device Type: output device type set up in the Supervisor Workstation
- Service Provider: service provider device set up in the Supervisor Workstation
- Retransmission Point: pager number, email address, etc. This links to the Contact Point reverse command database parameter.

The following value is optional:

- Script: script message to include in the transmission. This links to the Script Message reverse command database parameter.

Sending Retransmission

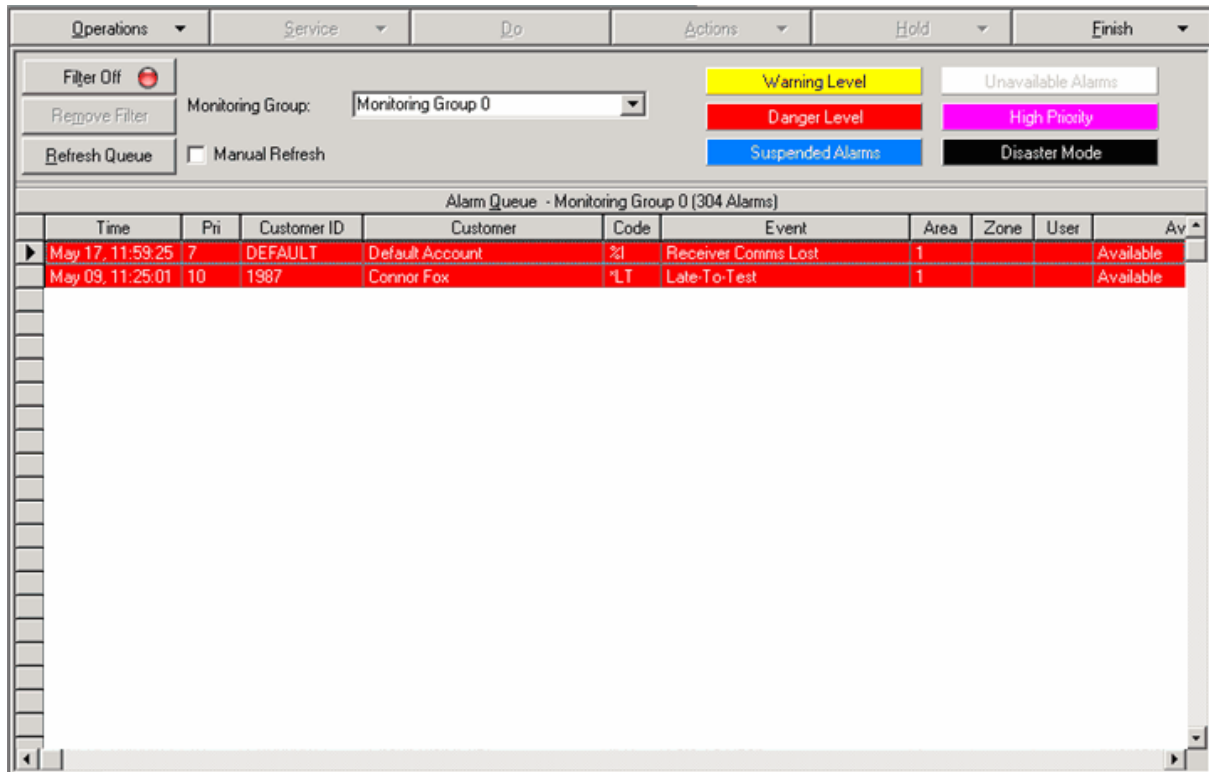
During alarm handling, the retransmission may be incorporated into an action pattern by using the contact point as part of a contact action. Additionally, actioning the contact point in the View All Contacts tree will also send the retransmission.

Alarm Queue

The **Alarm Queue** is a display of all incoming signals received and processed by Manitou. The color of the background and text of each alarm represents its priority and status as well, as displayed to the right, above the queue. This display is often set to the default display. Each alarm that is received in the system will initially appear on this screen. Operators can monitor

and select alarms for handling from the Alarm Queue. The Queue also provides a filter function that Operators may use to locate particular types of alarms currently in the Queue.

Open the Alarm Queue by clicking on the Operations menu, and selecting Alarm Queue. The Queue will appear:



The Alarm Queue displays all the active alarms within the system. The Alarms are color-coded based on their age and type. New alarms arrive with a white background and black writing. A serious alarm such as a Fire alarm is displayed in bright pink/purple with white text. After 1 minute the alarm status changes to Warning level 1 & 2 and the background color changes to amber. After 1 minute thirty seconds the status then changes to Warning level 3 & 4 and the background color changes to red while the text changes to white. Alarms should be acknowledged by this time. Suspended alarms are displayed with a white background and navy blue text. If the alarm is unavailable the background is white with light gray text. An alarm may be unavailable for many reasons including that it is being handled by another Operator.

If the Alarm Handling screen is set to Auto-Get Alarms (checkbox selection under Alarm Handling>>Operations>>Alarm Options) the Operator, whenever available, will be presented with each new alarm (new or viewed) automatically. This situation is known as "forced alarm handling".

If Manitou is not in "forced alarm handling" mode Operators may open and process alarms

from the Alarm Queue or receive them automatically in the Alarm Handling Screen. When an alarm is available a prompt window will appear asking whether the Operator would like to handle it. Alternatively, double-clicking on any alarm in the queue opens it in Alarm Handling. There the call list, action patterns and various alarm details are displayed.

The buttons above the Alarm Queue may be used to display drop-down menus with different options. Those options are also available through keystrokes, as are the file menu options. The difference between the keystrokes for the Alarm Queue drop-down lists, and the file menu drop-down lists is that within the Alarm Queue you can just click the underlined letter (without clicking the ALT key). Right-clicking some areas will pull up menus with the same and/or additional options as file menus.

The Filter tab on the alarm queue allows an Operator to search through a large number of queued alarms by criteria – alarm type, customer account, etc.

To select and handle an alarm, double-click on one of the items in the queue, or highlight the alarm and click A (Action) then D (do). This brings you into the Alarm Handling Screen.

Each time an alarm is received, it will display in the Alarm Queue. The Alarm Queue displays the following information:

- Time the alarm was received
- Priority level of the alarm
- Customer ID
- Customer name
- Code
- Event

If applicable, the Alarm Queue will also display information for:

- Area
- Zone
- User
- Availability
- Status
- Suspend Time
- RLP
- Transmitter ID (TXID)
- P/F/M
- Point ID

The Alarm Queue columns can be sorted by alarm time with the exception of the Actions, Area, Zone and Point ID columns.

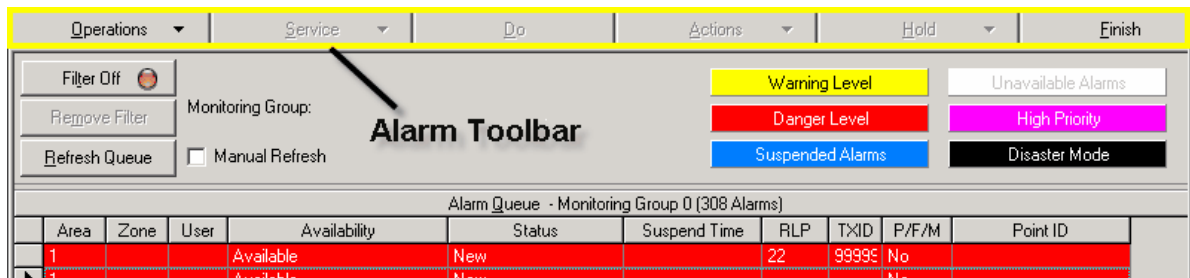
Description of Alarm Information

- **Time** - The date and time of the alarm's arrival in Manitou.
- **Priority** - The designated priority number assigned to the alarm.
- **Contract Number** - The contract number for the associate customer.
- **Customer** - The customer's name as entered in Manitou.
- **Code** - The Event Code is a two-letter code that is deciphered when a signal is received and translated into the Manitou system. For example, a BA is a Burglary Alarm. This code may appear in SIA format.
- **Event** - The Event is a description of the signal received into the Manitou System . For example, if a LO code is received, the description displayed is "Late-To-Open."
- **More Activity** - The More Activity column indicates if more activity has been received for the customer since the alarm was last viewed by a user. Users are further notified with a dialog when opening an alarm that has had more activity, or when working an alarm when the additional activity is received. This flag is set to "Yes" when an alarm or signal is received for the customer in question. The flag is cleared (set to "No") when a user acknowledges the dialog notification.
- **Area** - A larger location, system or object than a Zone. For example, the third floor of an office building might be Area 3. Within that area there might be multiple zones, each having it's own infrared detection device, or video camera. The area number is determined in the Manitou Operator client when setting up a new customer. Typically, a residence will only have one area.
- **Zone** - An area, system or object that has some sort of detection device within it. Each area is broken down into zones. The zones are determined and coded in the Operator Client when setting up a new customer. Zones may refer to a specific room in a house, such as the master bedroom or a certain window, or a specific business.
- **User** - The Operator's initials that is handling the alarm.
- **Availability** - The status of the alarm availability. For example, an alarm that is being handled by an Operator will appear as "Unavailable." Available alarms will appear as "Available."
- **Status** - The Status refers to the current action that is taking place on the alarm. For example, if an Operator is handling the alarm, the Status will display "Actioned."
- **Suspend Time** - If an Operator chooses to suspend the alarm, the suspend time will display in this field.

- **Receiver Line Prefix** - The receiver which has received the alarm is the Receiver Line Prefix and will be displayed in this field.
- **TXID** - The Transmitter ID which has processed the alarm is displayed in the TXID field.
- **P/F/M** - Police/Fire/Medical. If an Authority has been dispatched for the alarm, the P/F/M field will display "Yes." If an Authority has not been dispatched, the field will display "No."
- **Point ID** - The Point ID identifies the area in which the alarm is coming from. For example, if the alarm on the back door of a house is set off, the Point ID will display "back door."

Alarm Toolbar

The **Alarm Toolbar** is displayed along the top edge of the Queue. Buttons are made available according to the action the Operator is taking, thus many buttons may be grayed out at certain times.



Operations

- **Paged Contacts** - The Paged Contacts function provides a list of any customers that have recently been paged.
- **Pre-Cancel** - The Pre-Cancel function provides a display of all alarms that have been pre-canceled by an Operator. Pre-canceling an alarm requires instructions that any received alarms from a particular customer be ignored. **Note:** There may be a period of up to ten seconds after the timeout, where the following may occur: If a new alarm comes in for a customer whose pre-cancel is expiring, within ten seconds of the expiration of the original pre-cancel, a new pre-cancel may not be allowed. This is because the overdue checker (which cleans up expired pre-cancel information from the database), only runs once every ten seconds. In the very rare cases where an alarm comes in within the ten second period following expiration of a pre-cancel timeout, a new pre-cancel will not be allowed to be added.
- **Review Pre-Cancel** - This function allows the user to view any pre-cancels that have been entered.
- **Tracking** - Selecting the Tracking function will bring the user to the Tracking Setup form. This allows the Operator to track or direct alarms for a specified customer for handling.

This form can also be displayed by selecting the Operations menu and selecting "Alarm Tracking."

- **On Test** – Selecting the On Test function will bring the user to the On Test form, which enables the Operator to display any equipment that has been placed on test. From this form, it is also possible to place equipment on test or bring it back into operation.
- **Alarm Handling Options** – Selecting Alarm Handling Options will bring up the Options window, allowing the Operator to set preferences for the way alarms are presented in Manitou. These settings should be based on Central Station needs and preferences.
 - In the Get Alarm Type section, select the option most appropriate for the Central Station. If the Operator should only receive new alarms, select "New Alarms." If the Operator can access Viewed alarms (which includes suspended and deferred alarms), select "Viewed." If the Operator can access both, select "Both."
 - If the Central Station requires available Operators to take and process alarms immediately, check the Auto-Get Alarms checkbox. This forces Operators to handle alarms as quickly as possible after the signals arrive in the Alarm Queue.

Service

The functions under this button are not yet available.

Do

The Do button will allow the Operator to execute the current (top) action pattern item. Clicking this button has the same effect as double-clicking the top action pattern item.

Actions

- **Do** - The Do function allows the Operator to execute the current (top) action pattern item. This is identical to the function of the Do button described above.
- **Action** – This function allows the Operator to repeat the action pattern processing, beginning with the first action pattern item in the sequence.
- **Ignore** – This function allows the Operator to omit the currently selected action pattern item.
- **Call-in** – The Call-in enables the Operator to create an entry in the customer's log indicating that a customer contact called the central station.
- **View All Contacts** – This displays the complete list of contacts for this customer. This is identical to selecting the "view all contacts" radio button displayed on the alarm handling screen.

- **Validate Customer Password** – Selecting this function will provide a form that enables the Operator to validate a contact that has contacted the central station.
- **Add Comment** – This function allows the Operator to insert a comment into the customer log.
- **Add Temporary Comment** – This function allows the Operator to insert a temporary note into the notes for the customer.
- **Reverse** – Provides access to any reverse channel commands that are available for use in connection with the premises. This is identical to selecting the Reverse Channel tab displayed at the base of the alarm handling screen.
- **View Customer** – This allows the Operator to view the customer record.
- **Edit Customer** – This allows the Operator to view the customer record and edit the information as required.
- **Add Temporary Schedule** – This function allows the Operator to add a temporary Open / Close schedule for the customer.
- **Confirm Alarm** – This function allows the Operator to confirm the alarm. This is required when video or audio confirmation is used to verify that the alarm is genuine.

Hold

- **Defer** – This returns the alarm to the queue, making it accessible to another Operator for processing.
- **Suspend** – This action returns the alarm to the queue, marked as suspended, for a period of time specified by the Operator. It is also possible to program a priority change for the alarm when the time expires.

Finish

- **Close** – This allows the Operator to close the alarm, usually after having taken appropriate response actions via the alarm handling screen.
- **Operator Cancel** – This provides a way of cancelling the alarm without carrying out response actions. This is useful in the case of various alarms generated, for example, as a result of a known technical issue. A password will normally be required.
- **Customer Cancel** - This provides a way of cancelling the alarm without carrying out response actions. This option differs from the previous one in that a record is made of a

request by the customer to cancel the alarm, perhaps as a result of accidental triggering of the alarm.

- **Forward** – not currently implemented.

Alarm Queue Filter

Users have the option to filter the alarm queue by specified criteria. This criteria is set by first clicking on the Filter tab at the bottom of the Alarm Queue display:

Selection Criteria (AND)

Postal Code: Priority: Less Than Equal To Greater Than Alarm Age: (Mins) Less Than Greater Than

Customer ID: Contacted Authority

Additional Criteria (OR)

Event Category: ACCESS Access Alarms BURG Burglary EMERG Emergency ENV Environmental Alarms FIRE Fire Alarms

Event Definition: ** Unknown Event *1 GSM Link Fail *2 GSM No Response *3 Land Line Link Fail *4

Alarm Type: New Viewed Actioned

Current Filter:

Dealer: Branch: Police:

Select Reset

Queue Filter - 2

Users can filter the alarm queue display by the following criteria:

- Postal Code
- Customer ID
- Priority Level
- Alarm Age (in minutes)
- Contacted Authority
- Event Category
- Dealer
- Branch
- Police
- Event Definition

- Alarm Type

Once the search criteria has been selected, click the Select button to filter the alarm queue. As a reminder, the currently selected filters are displayed in the Current Filter box under the Filter tab:

Additional Criteria (OR)

Event Category:

- ACCESS Access Alarms
- BURG Burglary
- EMERG Emergency
- ENV Environmental Alarms
- FIRE Fire Alarms

Event Definition:

- ** Unknown Event
- *1 GSM Link Fail
- *2 GSM No Response
- *3 Land Line Link Fail
- *4 Land Line No Response

Alarm Type:

- New
- Viewed
- Actioned

Current Filter:

Event = (**,*2)
Type = (Actioned)
Dealers = (0000001)

To reset the filters, click the Reset button located next to the Select button.

Back at the Alarm Queue screen, if a filter is currently on, the Filter On button will be green:

Filter On

Remove Filter

Refresh Queue

Manual Refresh

Monitoring Group: Monitoring Group 0

Warning Level

Danger Level

Suspended Alarms

Unavailable Alarms

High Priority

Disaster Mode

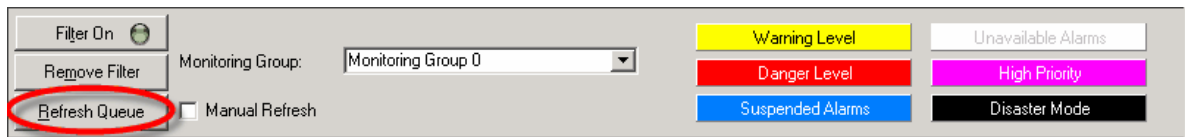
If there is no filter currently on, the button will be red.

To remove the current filter, simply click the Remove Filter button.

Refresh

From time to time, the user may want to refresh the Alarm Queue to display any changes made to alarms currently in the queue. To do so, simply click on the Refresh Queue button;

however, the Alarm Queue will refresh automatically in a given timed interval.



Users also have the option to refresh the queue manually by selecting the Manual Refresh button. This will only refresh the Alarm Queue if the Refresh Queue button is clicked. The Alarm Queue will not refresh automatically.

When checked, a prompt will appear asking the user to confirm the request to manually refresh the queue. Click Yes or No to confirm or disconfirm the request.

Monitoring Group

Users have the option to filter the Alarm Queue to display signals received that are sent to a specific Monitoring Group. A **Monitoring Group** is used to distribute certain signals to particular groups of Operators based on a set criteria. Initially, a default Monitoring Group of 0 will be set upon installation of Manitou software. Should no other Monitoring Groups be added, no specific distribution of signals will be enabled. Should Monitoring Groups be added, certain customer records can be directed to a specific Monitoring Group, allowing Operators using *specific workstations* belonging to that Monitoring Group will receive signals from those customers. Thus, the Monitoring Groups are assigned to workstations and not Operators.

To filter the Alarm Queue by Monitoring Group, select the Monitoring Group from the drop-down menu:



Color Codes

The **Color Codes** located on the Alarm Queue screen alert the user as to what priority level a signal is when it is received into the Alarm Queue. For example, a Danger Level alarm may be color coded red, while a warning level alarm may be color coded yellow.



To change the color of alarm priorities, see the *Tools: Options* portion of the Supervisor Workstation manual.

Select an Alarm from the Queue

To begin processing an alarm held in the Alarm Queue, move the mouse cursor into the line containing the appropriate alarm.

Double-click on the alarm. This action will bring up the Alarm Handling screen and full details of the selected alarm. Please refer to the section *Operations menu: Alarm Handling* for further instructions on handling alarms.

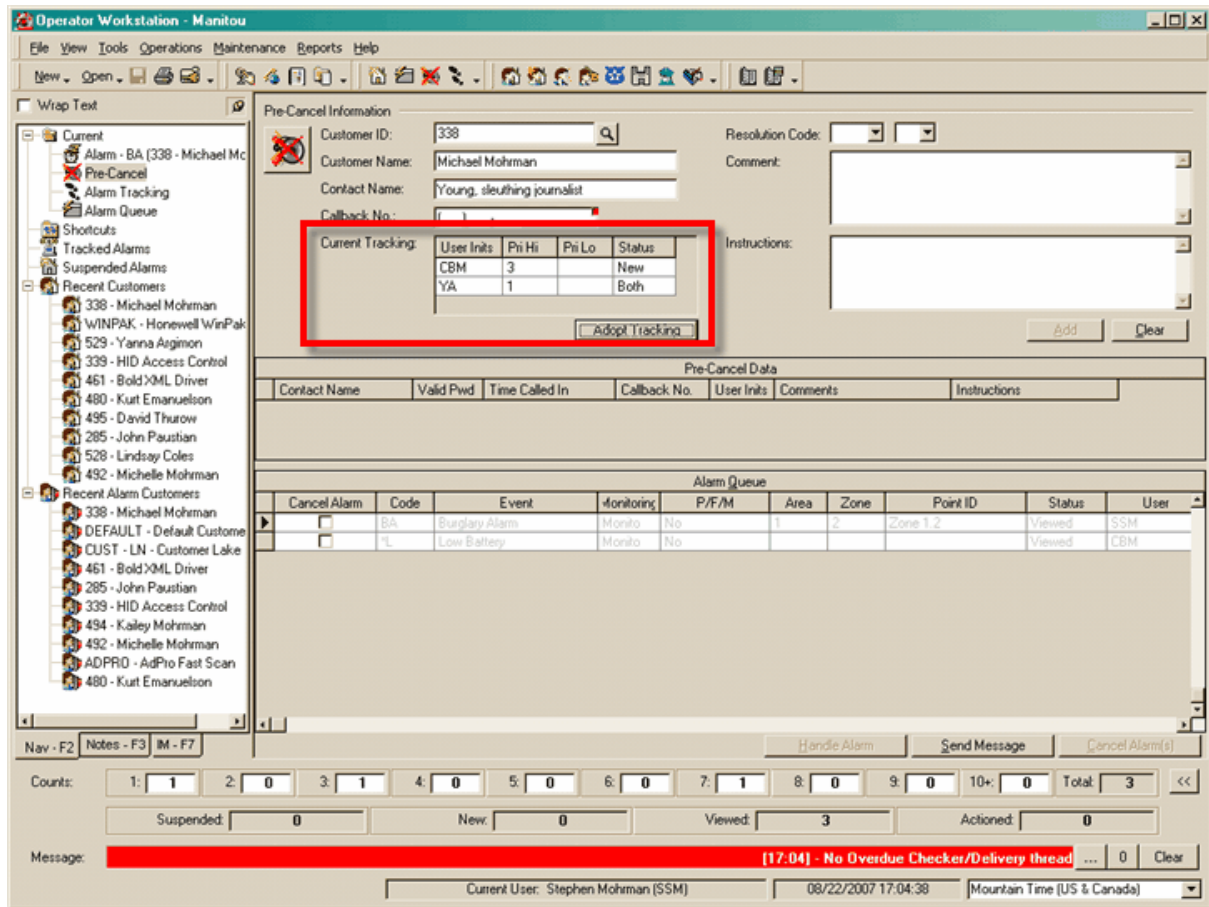
Pre-Cancel Alarms

The **Pre-Cancel Alarms** form allows the Operator to maintain a list of alarms that have been pre-canceled following notification by a customer that an alarm has been generated accidentally at the customer premises. For example, a customer calls to stay they were unable to get to the alarm panel in time and the alarm has not yet arrived in the Alarm Queue. The Operator can verify the customer's password, gather information about the alarm, and add the alarm to the Pre-Cancel list. Once the alarm arrives and an Operator opens the alarm, he is alerted that there is a Pre-Cancel for this alarm. The Operator can then make an informed decision as to how to handle the alarm. The form columns can be sorted, with the exception of the Time Called In, Comments and Instructions columns.

Pre-Cancel Data							
Customer ID	Customer Name	Customer Address 1	Contact Name	Valid Pwd	Time Called In	Callback No.	User Inits

The Operator Client displays the tracking information on the Pre-Cancel form in a small grid since multiple tracking entries may exist for a customer. The grid will display all active tracking for the loaded customer.

The Adopt Tracking button will attempt to adopt all tracking for the customer that the operator is eligible for. It does not attempt to adopt a single tracking entry in the grid.



Tracking

The **Tracking** form enables an Operator to direct all alarms for a particular customer to the Operator for a period of time. For example, if an Operator is handling an alarm for ABC Company and knows that the customer site will be sending periodic alarms or signals throughout the day, the Operator can opt to track all alarm and signals received and handle them accordingly. Once the alarm is handled, the Operator will be prompted to discontinue tracking alarms for that customer. Selecting "No" means that future alarms from ABC Company will be routed to the Operator until the Operator chooses to discontinue tracking or the Operator logs out.

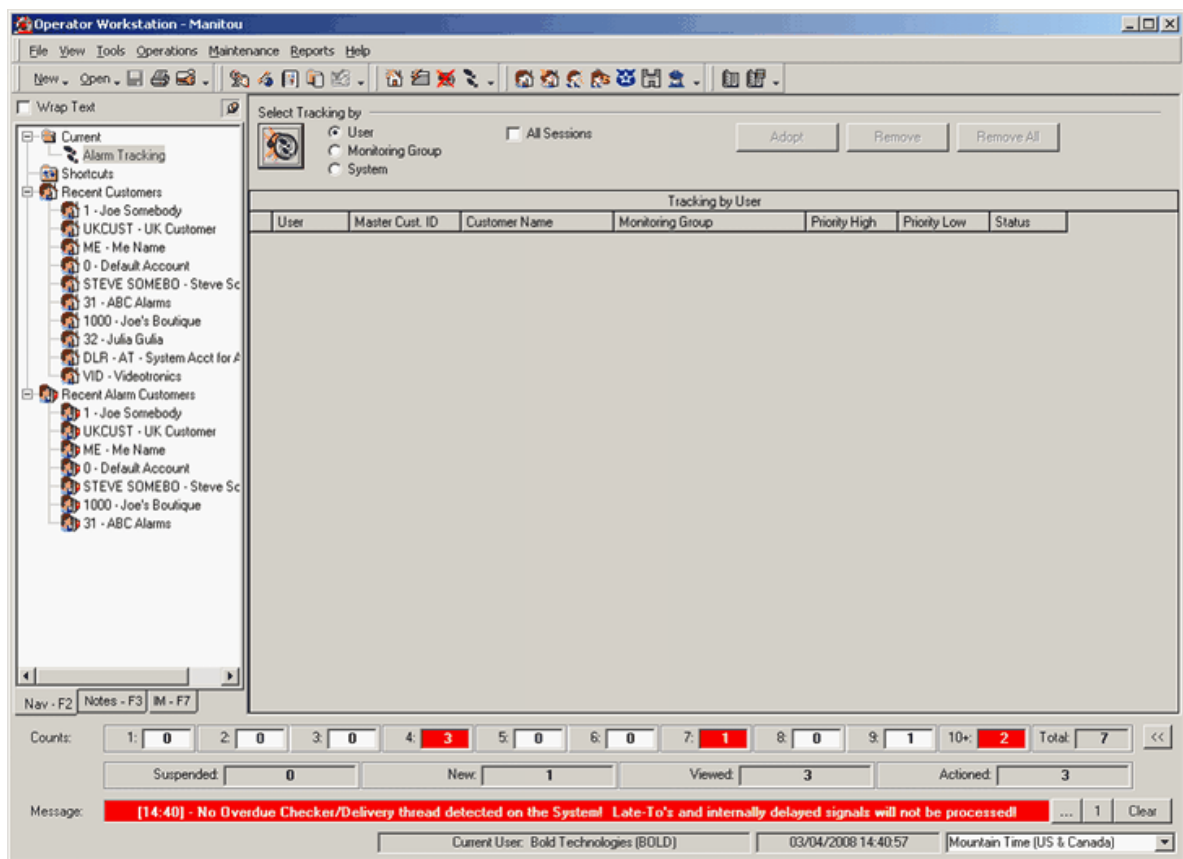
The default time tracking is 30 minutes, but can be configurable within the Supervisor Workstation. Once this time period expires, the tracking instructions will be canceled.

The lower section of the form enables the Operator to display all alarms that are currently tracked to him / her, to a particular monitoring group or within the system as a whole. The Tracking screen is viewable at any time, but only editable while in Alarm Handling mode. While in Alarm Handling mode, an Operator may add to the list of tracked customer accounts. Automatic Tracking may be switched on by selecting Operations>>Tracking. The customer account in the alarm being handled by the Operator will also appear in the list of Tracked accounts and does not need to be manually added.

Tracking Display

Alarms tracked to an Operator will appear in a similar fashion to previous versions of Manitou, where tracking is displayed in the navigation toolbar. All customer alarms will display as usual, however, any alarms that the operator is ineligible to handle will display in grey. If the user clicks on a grey, or disabled, alarm, the client will not attempt to allocate that alarm.

The Broker tracking structure included the priority range, as well as, the alarm state. The Operator Client displays this new information on the Alarm Tracking form.



If a priority value is omitted, this means that no limit applies. In the above example, the Operator is tracking priority 3 through (no limit). This display is consistent with the priority range setup for Users in the Supervisor Workstation. See the *Supervisor Workstation manual: Users* for more information on setting up the priority range.

All Sessions

If the All Sessions box is checked, the Alarm Tracking form will show tracking entries for the current user from all current sessions. The user must be logged into Manitou from more than one client in order to get more than one session at the same time. The user could be handling

an alarm for more than one client, in which case, this would show the tracking for all of the users's session.

Additionally, when exiting the Operator Workstation while in alarm handling mode (and tracking alarms). The Operator will be prompted with "Would you like to keep your alarm tracking?" If the Operator answers "yes," their tracking entries will be recovered when the Client is run again within the timeout period specified in the MOptions. Previously in 1.5.0, these limbo tracking entries are only recovered when using File > Logoff and logging back in, instead of between separate runs of the Client.

Add Tracking

1. Put the Operator Workstation into Alarm Handling mode by first selecting the Operations menu.
2. Select Alarm Handling. The Operator may only edit items on the Tracking screen while in Alarm Handling mode. Otherwise, this screen is information only.
3. From the Operations button on the Alarm Handling screen, select Tracking to display the Tracking screen.
4. Enter the Customer ID or use the search icon to search for the Customer account and load it from the search form.
5. Click the Add button to load the Customer account information into the Tracking list.
6. Indicate the tracking type by selecting the appropriate radio button:
7. User (Operator) - The account will be tracked by the Operator currently logged into the Manitou system.
8. Monitoring Group
9. System - The account will be tracked by the Manitou system.
10. Once the tracking type is selected, the tracked account information will appear in the gride below the tracking type area.

Adopt Tracking

1. To take over to tracking for another Operator, find the appropriate customer account in the tracking list, and click on the Adopt button.

Things to Remember

An operator adopting tracking may not have the same level of permissions as the previous operator. As such, adopting tracking will behave as follows:

Priority:

- If the previous operator's priority range matches the takeover operator's priority range, the entry is adopted.
- If the previous operator's priority range does not match the new operator's priority range, but the new range fully encompasses the previous' range, the entry is adopted and the priority range is expanded (i.e., priority range 4-6 adopted by a user with range 2-7 – range becomes 2-7).
- If the two ranges do not match and the adopting range does not fully encompass the previous, the original tracking is left as is.

Alarm State (phase):

- If the previous and adopting users' alarm states match, the tracking entry is adopted.
- If the previous' state is New or Viewed and the adopter's state is Both, the entry is adopted and the tracking alarm state is changed to Both.
- If the previous' state is Both and the adopter's state is New or Viewed, the entry is adopted and the tracking alarm state is changed to New or Viewed (adopter's value).
- If the Previous' state is New or Viewed and the adopter's state is also New or Viewed, but they do not match (i.e., previous' is New, adopter's is Viewed), then the original tracking is left as is.

Remove Tracking

1. To remove tracking, select the appropriate customer account by clicking on it.
2. Click on the Remove button. A prompt will appear, asking the Operator to confirm the removal.
3. Click Yes.
4. To remove all tracked accounts in the list, click on the Remove All button. Confirm the removal.

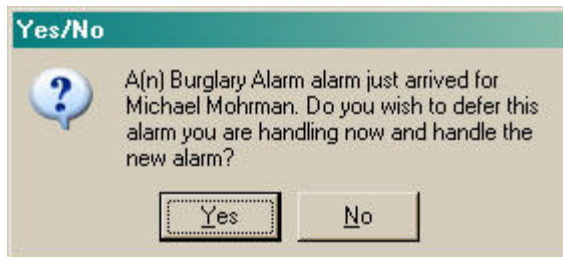
Reminder: Tracking expires at the end of the Operator's session, when the Operator logs out of Manitou.

New Alarm Notification

All operators with tracking for a given customer will receive notifications that a new alarm is available. The Operator Client's behavior will, however, be dictated by the user's priority range.

If an operator is handling an alarm, a higher priority alarm is received, and the operator is

capable of handling that alarm, they are asked if they wish to defer the current alarm in favor of the new alarm (same as previous to v1.5).



If the user chooses to defer in favor of the new alarm, the client will allocate the new alarm before deferring the current. This is done in case multiple operators are handling alarms for the customer and are eligible to take the new alarm. In this circumstance, a race condition exists – the first operator wins – so we do not want the “losing” operator to defer their current alarm if they can not get the new one.

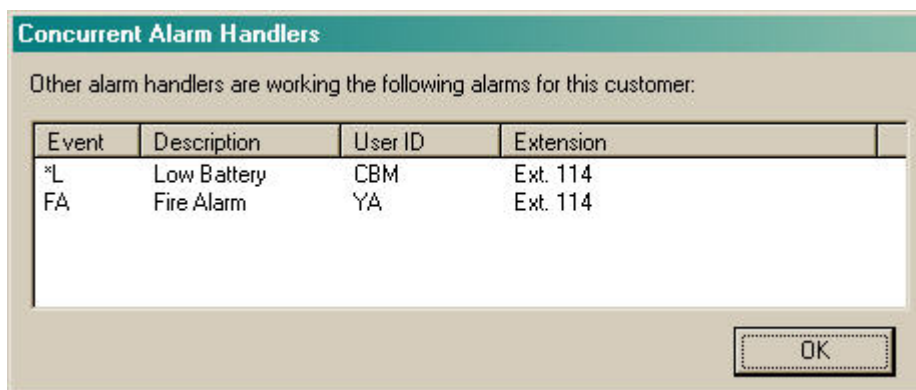
Lastly, if the operator is not eligible to handle the newly received alarm because of their priority range, they are still notified that a new alarm has occurred but they are not given the option to handle it.



Michael Mohr

Concurrent Alarm Handling

When allocating an alarm, the Operator Client will notify the user if any other alarm handlers are working alarms for the same customer.



New Tracking Entry

The Broker will only create a new tracking entry if the alarm is not already covered by another tracking entry. For example, consider two users: A and B. User A handles alarms of priority 4-7, where user B handles alarm priorities of 1-5.

User A is working a priority 4 alarm and has the customer tracked. When user B allocates a priority 5 alarm, no new tracking is created for user B since the priority 5 alarm is already covered by user A's priority range of 4-7.

Now consider user A working a priority 4 alarm with the customer tracked. When user B allocates a priority 2 alarm, a new tracking entry is created since priority 2 does not fall into user A's tracking range of 4-7. In this case, both users are tracking the same customer (A for alarm priorities 4-7, and user B for alarm priorities 1-5), and overlap occurs for priorities 4-5.

Alarm Tracking

The Broker tracking structure includes the priority range, as well as, the alarm state. The Operator Client displays this information on the Alarm Tracking form:

The screenshot shows the 'Operator Workstation - Manitou' interface. The 'Setup Tracking' section has 'Customer ID: 338' and 'Name: Michael Mohman'. Under 'Select Tracking by', 'System' is selected. The 'Tracking by System' table is as follows:

User Inits.	Master Cust. ID	Customer Name	Monitoring Group	Priority High	Priority Low	Status
CBM	338	Michael Mohman	Monitoring Group 0	3		New
YA	338	Michael Mohman	Monitoring Group 0	1		Both

At the bottom, the 'Counts' section shows: 1: 1, 2: 0, 3: 1, 4: 0, 5: 0, 6: 0, 7: 1, 8: 0, 9: 0, 10+: 0, Total: 3. A message bar at the bottom reads: '[17:02] - No Overdue Checker/Delivery thread detected on the System! Late To's and internally delayed signals will not be proce ... 0 Clear'. The current user is Stephen Mohman (SSM) and the date is 08/22/2007 17:02:37.

If a priority value is omitted, this means that no limit applies (see Priority Low in the above image). In the above example, user CBM is tracking priority 3 through <no limit>. This

display is consistent with the priority range setup for Users in the Supervisor Workstation.

Paged Contacts

The **Paged Contacts** screen allows an operator to view the contacts that have recently been paged. From this screen an operator can also handle the alarm, send notifications to other operators or remove the page from the list. Columns in the Paged Contacts form can be sorted with the exception of Call Time and Pager Message.

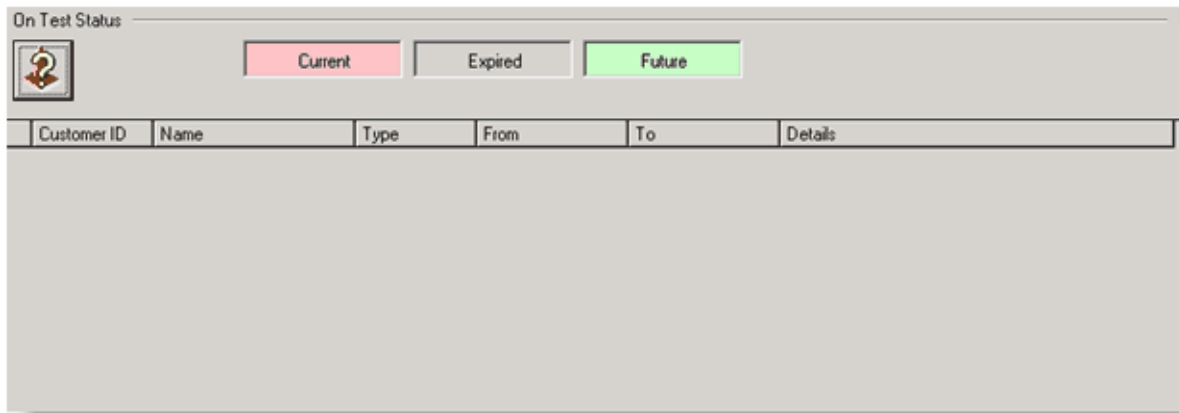
1. To view only the paged contacts for a specific account/customer enter the customer identification number in the Customer ID field or select the magnifying glass next to the Customer ID field. The Find Customer screen will display by clicking on the magnifying glass.
2. When using the Find Customer lookup option, locate the Search Criteria section of the Find Customer screen and select a Search Key from the drop-down menu and enter in a Value. If you do not know what to search by select Customer ID for the Search Key 1 field and enter an asterisk (*) for the Value field.
3. Once the search criteria is entered at the bottom of the Find Customer screen, press the Search button. All of the customers that met the search criteria will display under the Search Results area of the screen.
4. Search the list of customers and click on the customer name which will turn the row blue.
5. At the bottom of the Find Customer screen press the Load button. The Find Customer screen will close automatically and the Paging Contacts screen will display.
6. The list of pages for the customer will display.
7. To view all of the recent pages for every customer click the Clear button on the right side of the Contact Name field.
8. The recent paged contacts will display in the table at the bottom of the Paging Contacts screen. The Customer ID, Customer Name, Customer Address, Contact Name, Call Time, Status, Alarm Status, User and Pager Message information are all included within the screen.
9. The Handle button in the middle of the Paging Contacts screen will allow an operator to select, handle and complete an alarm with a valid Alarm Status. The Handle button is grayed out/unusable until the following steps are completed.
10. To select an alarm from within the paging list double click on the line with the desired page. The Verify Password screen will display.
11. Validate the password and press the OK button. The Verify Password screen will close automatically and the Paging Contacts screen will display.

12. The Contact Information area at the top of the Paging Contact screen will automatically populate with the Customer ID information.
13. To handle the alarm, click on the row with the contact name and information desired. The Handle button will now be available.
14. Click on the Handle button to handle the alarm.
15. The Paged Contact Call In screen will display. Fill in the Contact Name and Comment field and click the OK button.
16. The Paging Contacts screen will be replaced with the Alarm Handling screen. The alarm can be completed.
17. The Send Notification button in the middle of the Paging Contacts screen can be used to notify other operators about an alarm. The [Send Notification] button will be grayed out/unusable until the following events occur.
18. An alarm in the paging list at the bottom of the Paging Contacts screen must be at an Unavailable Status and there has been no action on the alarm for a specified amount of time.
19. The Send Notification button will become available only when these events have occurred.
20. Click the Send Notification button and the Paged Contact Call In screen will display. Select the On Location or Clear button and type a comment in the Comment field and click the OK button. The comment will be entered into the Activity Log.
21. The Remove button on the right side of the Paging Contacts screen can be used to remove the paging information from the Paging Contacts screen.
22. Click on the Remove button, the Paged Contact Call In screen will display.
23. Enter a comment in the Comments field and click the OK button.
24. All the pages related to the alarm will be removed from the Paging Contacts screen and list.

On Test Inquiry

The **On Test Inquiry** provides the Operator with a display of all on test entries that are on record in the Manitou system. This display is a read-only screen.

1. Select the Operations menu.
2. Select On Test Inquiry. The form will appear:



The following information is displayed:

- Contract No. - the customer's Contract Number
- Name - the customer's or company's Name
- Type - the Type of On Test period - Temporary or Permanent
- From - the beginning date and time of the on test period
- To - the ending date and time of the on test period
- Details - information about which parts of the system are on test (or "Whole System")

Current On Test accounts are shown in red, while expired accounts are shown in grey. Future On Test accounts are displayed in green. Customer ID, Name and Type columns can be sorted, and dates are presented in customer local times.

To refresh the list, click on the Refresh button.





On Test

On Test enables the Operator to place all or a part of a customer's alarm equipment outside the alarm notification and handling system for a temporary period, usually because of a fault or while maintenance is being undertaken at the customer premises. Operators can place equipment on test immediately or for a period of time for a future date.

The screenshot shows the 'On Test' form in the Manitou Client 1.5.2. The form is organized into several sections:

- Customer Section:** Includes fields for Customer ID, Name, and Monitoring Group. There are also search and navigation icons.
- Actions Section:** Contains buttons for 'Dealer Comments', 'Enter Service Request', 'View Open Tickets', and 'Service Information'.
- Table:** A table with columns for Customer ID, ID, Type, From, To, and Details. The table is currently empty.
- Applies to Customers:** A list box for selecting customers.
- Duration Section:** Features radio buttons for 'Temporary On Test' (selected) and 'Permanent On Test'. It includes a 'Reason' field, and pickers for 'Days' (0), 'Hours' (3), and 'Minutes' (0). Time pickers for 'From' (01/04/1900 17:49) and 'To' (01/04/1900 20:49) are also present.
- Details Section:** Includes radio buttons for 'Whole Customer' (selected) and 'Selected Components'. Fields for System, Transmitter, Event Category, Event Code, Area, and Zone are provided, each with a selection icon. A checkbox for 'Keep signals for VRT access' is also visible.
- Buttons:** 'Add', 'Update', 'Remove', 'Remove All', 'Save', and 'Cancel' buttons are located throughout the form.

1. Open the On Test form by clicking on the Operations menu.
2. Select On Test.
3. Enter the Customer ID or use the search tool to locate and open the Customer record. Users may also load the customer by Receiver Line prefix and Transmitter ID by clicking on the Load Customer button: 
4. Validate the password.
5. Click on the Add button.
6. In the Duration section of the screen, select whether the On Test is Temporary or Permanent.
7. Enter a reason into the Reason field for putting the Customer's system on test.
8. If the On Test is temporary, enter the number of days, hours or minutes the system should be on test.

9. Enter the From and To dates the system will be on test.
10. Indicate whether the whole system or only specific components will be on test.
11. If the on test applies to specific system components, click on the  button to bring up applicable components for the following fields:
 - Transmitter - Select a particular transmitter if it is to be put on test.
 - Event Category - Allows the Operator to limit the on test condition to a particular category of event, for example, all environmental alarms.
 - Event Code - Allows the Operator to limit the on test condition to a particular event type, such as any panic alarm.
 - Area - Allows the Operator to limit the on test condition to a particular area of the customer premises.
 - Zone - Allows the Operator to limit the on test condition to a particular zone within the customer premises.
12. If the signals should be kept for VRT access, check the Keep Signals for VRT Access box, and select the appropriate engineer from the drop-down menu.
13. Click Save. The On Test order will now appear under the Customer section of the screen. Current On Test accounts are shown in red, while expired accounts are shown in grey. Future On Test accounts are displayed in green.
14. To update the On Test screen, click on the Update button. The page will refresh, reflecting the current status of the accounts.

Remove Account

1. To remove an account that is expired, click in the table next to the account to highlight the line.
2. Click on the Remove button.
3. Confirm the delete. The account has now been removed.

Remove All Accounts

1. To remove all accounts, click on the Remove All button.
2. Confirm the removal.

Notes on the On Test form

- When the system changes, the TX, Area, and Zone fields will automatically clear.
- Zones will always show wildcard zones (zones with an area of "*") for the selected system,

regardless of the selected area.

- If anything other than exactly one system is selected, the browse buttons for TX, area and zone will be disabled.

Temporary Schedule

A **Temporary Schedule** will replace a customer's normal Open/Close schedule with a different, temporary schedule that is effective for a specified time period. This is particularly useful during holidays or shutdown periods for customers.

A normal Open/Close schedule must have been configured for the customer prior to setting up a temporary schedule. To configure a normal Open/Close schedule, please see the Maintenance: O/C Schedules portion of this manual.

Customer

Customer ID:

Name:

Schedules

Schedule: Window Code:

Description: Temporary Date:

Temporary Schedule		
Day	Time	Action

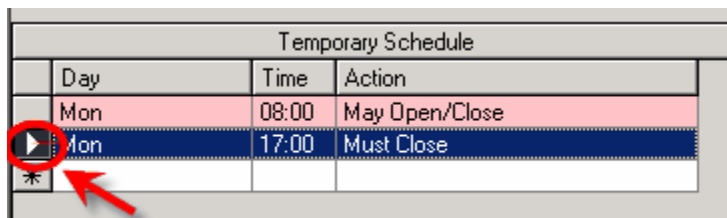
- Monday
- Tuesday
- Wednesday
- Thursday
- Friday
- Saturday
- Sunday

The Temporary Schedule form is split into three areas: customer, the name of the temporary schedule, and the relevant day and time of the schedule.

1. Load the customer information by entering the Customer ID or by selecting the search tool and loading the customer into the Customer ID form.
2. Once the customer is loaded, any Open/Close schedules associated with the customer will appear in the Schedule drop-down menu.
3. Click on the Edit button to put the screen into edit mode.
4. Validate the customer's password.
5. Select the appropriate schedule from the Schedule drop-down menu.
6. Enter the date of the temporary schedule. The default date is the current date. Only one date may be selected at a time.
7. In the Temporary Schedule window, adjust the time or action for the Temporary Schedule.
8. If the Temporary Schedule should apply to more than one date, select the date from the Temporary Date drop-down menu and make necessary changes to the Temporary Schedule.
9. Click Save.

Modify or Delete a Temporary Schedule

1. Load the customer record by entering the Customer ID or searching for the customer ID using the search function.
2. Click on the Edit button.
3. Enter the date of the Temporary Schedule that should be edited or deleted.
4. To edit the schedule, click in the relevant fields of the Temporary Schedule table and edit or add rows as necessary.
5. To delete a row, click next to the row to be deleted:



Temporary Schedule		
Day	Time	Action
Mon	08:00	May Open/Close
Mon	17:00	Must Close
*		

6. The row will be highlighted. Press the delete key on the keyboard.

7. Confirm the delete.
8. Continue deleting necessary rows. Once the temporary schedule has been deleted, the permanent schedule will appear.
9. Click Save to save all changes.

Comment

The **Comments** area in customer maintenance allows users to view, enter, or edit temporary, current, future, and special instruction for a customer. The area also offers users access to view expired comments about a customer.

1. Open the Comments section by clicking on the Comments button in the Jump To menu.
2. Select the Edit tab to put the screen into edit mode.
3. The Verify Password screen will display. Verify all the information is correct and click OK.
4. The Customer Comment screen will automatically display. If the customer (key holder) does not have access to edit the account, the Verify Password screen will not allow the Operator into the Edit area of the Comment screen. Click the Cancel button to return to the View Comments screen if access is not allowed.
5. Click the Add button to add a comment into the tree menu and onto the customers account. The Add Comment screen will display.
6. Select the Comment Type by clicking the circle that fits the type of comment that will be added.
7. Type the comment description in the Description field or select a description from the drop-down menu to the right of the Description field if available.
8. Click on the OK button when completed. The additional comment will display within the tree menu.
9. Locate the Comment area of the screen. If a Standing Comment has been added to the account, begin typing the comment into the blank white area on the right side of the screen. If a Temporary comment has been added to the account, enter in a date and time within the Valid From and Valid To areas then begin typing comments.
10. Click Save when the task is complete.

View Comments

1. Select the View tab at the top of the Comment screen.
2. On the left side of the screen click on the Temporary, Standing, or Special Instructions options within the tree menu. The tree menu will expand to display subsections of the tree menu.
3. After locating the desired comment from the tree menu click on the comment. The comment information will display on the right side of the screen under the Comment area. If the comment has a valid date, it will display under the title within the Comment area of the screen.

Remove a Comment

1. To remove a comment from an account, first ensure the screen is in edit mode by clicking on the Edit button.
2. Click on the comment that needs to be removed from the tree menu.
3. Click on the Remove button above the tree menu to remove the selected comment.
4. Click Save.

Reverse Channel

The **Reverse Channel** function allows an Operator to send certain commands to alarm panels and other equipment located at the customer site. This function is commonly used to remotely reset an alarm panel. Reverse Channel commands can also be issued to test or make changes to transmission equipment at the customer site.

Reverse Channel

Type:

Reverse Commands Available

Connect to Receiver
Connect to Site

Route: Override

Send

Command Summary

Command	Status	Description

Clear

1. Select a Reverse Channel Type from the drop-down menu. This is the Transmitter type that the signal will be sent to.
2. Once a Type is selected, Reverse Commands that are available will appear below.
3. Highlight which command to send, and click the Send button. A Reverse Command Parameters box will appear:

Reverse Command Parameters

Transmitter ID:

Raw No.:

RedCare Alarm Id:

OK Cancel

4. Based on the Transmitter type selected, various parameters will be available in the Reverse Command Parameters box.
5. Enter the Transmitter ID and any other parameters required by the Transmitter Type.

6. Click OK
7. The command will now be sent to the Transmitter.
8. When the Transmitter receives the command sent from Manitou, a summary will appear in the Command Summary portion of the window.

Disaster Mode

At times, a Central Station may run into problems that affect the ability to perform necessary duties. Such problems may be severe weather which affects the monitoring area and causes problems with false alarms sent at a rapid rate. Setting Manitou to **Disaster Mode** allows the Central Station to change the way alarms are received and processed, and will allow the Operators to reassign priorities for event alarms, customize the system to log certain signals, filter the signals from the affected monitoring area to a specific Operator group of Operators or suspend activity.

Set up Disaster Mode in Supervisor Workstation

In the Supervisor Workstation, the following areas must be changed to begin Disaster Mode:

Event Categories

1. Open the Event Categories by first clicking on the Maintenance menu.
2. Select Events.
3. Select Event Categories.
4. In the Disaster Mode portion of the screen, flag the signal as part of a disaster event.
5. Configure suspend time if needed.
6. Offset the priority if needed.
7. Repeat these steps for any additional Event Categories that should be set to Disaster Mode.
8. Click Save.

Event Codes

1. Open the Event Categories by first clicking on the Maintenance menu.
2. Select Events.
3. Select Event Codes.
4. Click on the Disaster tab at the bottom of the screen.

5. Find the appropriate Event Codes in the Event Codes list.
6. Flag the signal as Disaster Mode from the Disaster Mode Type drop-down menu.
7. Configure suspend time if needed.
8. Offset the priority if needed.
9. Repeat these steps for any additional Event Codes that should be set to Disaster Mode.

Set up Disaster Mode in Client Workstation

1. Open the Client (Operator) workstation.
2. Open the Operations menu.
3. Select Disaster Mode. The default Disaster Mode window will appear:

Disaster Details				
Post Code	Start	End	City	Mon Grp

4. Click on the Edit button.
5. Click on the Add button. An Add New Disaster Event window will appear:

Add New Disaster Event

Disaster Event

Warning Watch

Description:

Comments:

Post Code Details

Monitoring Group:

Days: Hours: Minutes:

From:

To:

Post Codes

City Post Code

Country:

Region:

City:

>
<
>>
<<

OK Cancel

6. Designate if the event is a Warning or a Watch. Setting the event to a Watch does not trigger any action and is mainly used for reference purposes. A Warning will generate actions based on Disaster Mode settings.
7. Enter a brief description into the Description field.
8. Enter any comments into the comment field.
9. Ensure the Monitoring Group is set to the default Monitoring Group 0.
10. Enter the number of days, hours and minutes for this event.
11. If the starting time is the current time, set the time for the current time. This option is

useful if the Watch or Warning is for several states or zip codes.

12. Select how to list the Post Codes, either manually or selecting cities from the Post Codes list.

13. Once the list is populated, click OK.

14. Click Save.

Note: Customer logs do not log the signals as "Disaster." It is necessary for an Operator to double-click the individual lines in the Log to view the Disaster flag.

Maintenance Menu

The **Maintenance Menu** is the center of data entry for the Operator Workstation. In the Maintenance Menu, Users can enter new customers, maintain existing records, and set up Dealers, Agencies, Authorities, Monitoring Companies, Keyholders, and more.

Customer

The **Customer** window, which can be accessed by clicking on the Maintenance menu, then selecting Customer, provides the means to view or edit an existing customer record. Once displayed, any page of the customer record may be accessed by selecting a page from the Jump To menu located to the right of the record.

The screenshot shows a 'Customer' record form with the following details:

- Customer ID:** 120906
- Name:** Anna Haier
- Type:** Residential
- Related Type:** Normal
- Account Type:** Normal Account
- Address:**
 - Street 1: [Empty]
 - Street 2: [Empty]
 - City: Colorado Springs
 - State: Colorado
 - Zip Code: 80907
 - Country: United States of America
 - Language: English (United States)
 - Time Zone: Mountain Time (US & Canada)
- Status:**
 - Alarm: OK
 - Monitoring: Active - 03/14/2007 10:00
 - Maintenance: Unresolved Maintenance Issues
 - Service: Full
- Monitoring Status:** Active
- Jump To menu:**
 - Customer (Selected)
 - Details
 - Options
 - Services
 - Transmitters
 - Programming
 - O/C Schedules
 - Zones & Areas
 - Contact List
 - Call Lists
 - Attentions
 - Permits
 - Comments
 - Action Patterns
 - General Schedules
 - Control Panel
 - Plans
 - Devices
 - Reverse Command
 - User Defined
 - Reports
 - Out of Service
 - Zone Status
 - Reverse Send
 - Activity Log
 - Access Control

On initial display, the record will be blank. Once a customer record is loaded, the default display will show basic customer details, including the name, type of account (residential or commercial), address, and status of the account.

Account Status

The Account Status portion of the screen shows what services are active, inactive or need attention. The Status form is a drill-down screen that can be expanded by double-clicking on a service.

Locate a Customer Record

1. If the Customer ID is known, enter the number into the Customer ID field and press Enter. The desired record will now be displayed.
2. If the Customer ID is not known, click on the magnifying glass button to the right of the Customer ID field. This will display the Search window:
3. In the Search Key field, select a search parameter such as Customer ID or Street Name.
4. Enter the search terms, such as the Street Name, into the Value field.
5. Click on the Load button or hit Enter on the keyboard. The search results will then appear in the table below the search criteria fields.
6. Locate the customer record and double-click on it to load the customer record.

Browse a Customer Record

Once the Customer record is displayed, browsing the record is simply a matter of selecting a page using the Jump To buttons located to the right of the customer record. To browse the pages in a record, click on the appropriate radio button in the Jump To menu. The appropriate page will be displayed.

Edit a Customer Record

Sometimes, changes must be made to a customer record, such as a new phone number or a change in address. To edit a customer record, locate the appropriate record and click on the Edit button to put the record into Edit mode. Make any necessary changes, and click Save to save the record.

Add New Customer

1. To add a new customer in the Operator Workstation, first click on the Maintenance menu.
2. Select Add Customer. A New Customer wizard will appear:

Select the type of Customer to create

Create a new Customer
 Create a new Customer based on an existing Customer
 Create a new Customer based on a Template Customer

Customer Information Entry

Customer ID: *

A/R Company: ▼

A/R Number: 🔍 *

Name: ... *

Premises Type: ▼ *

Country: ▼ *

Language: ▼ *

Time Zone: ▼ *

3. Select the type of customer to create by selecting either Create a New Customer or Create a New Customer based on an existing Customer from the Customer Type list.
4. In the Customer Information Entry form, enter a Customer ID. The Customer ID naming convention should be previously determined by a Central Station.
5. If the Customer should be linked to an accounting company, select the A/R company from the drop-down menu.
6. Enter the A/R (Accounts Receivable) number.
7. Enter the Customer name.
8. Select the premises type: Residential or Commercial.
9. Select the Country where the customer is located.
10. Select the primary language the Customer uses.
11. Select the time zone the Customer is located in.
12. Click next.

Address

Once the initial Customer details have been entered, an Address form will appear:

Customer

Customer ID: 051882 96

Name: Anna Abernathy

Type: Residential

Related Type: Normal

Account Type: Normal Account

Address

Street 1:

Street 2:

City:

State: Zip Code:

Cross Street: Subdivision:

Country: United States of America

Language: English (United States) A/R Company:

Time Zone: Mountain Time (US & Canada) A/R Number:

1. Enter the Customer's address into the address fields, beginning with the street number and street name. Once the user begins typing, a New Address form will appear:

New Address...

Street 1:

Street 2:

City: all

State: all Zip Code:

OK Cancel

2. Continue entering the street name, city, state, and zip code. **Note:** Do not use punctuation or atypical abbreviations in these fields.

3. Click OK. A Post Codes Lookup box will appear:

Lookup post codes

Search Criteria _____
Post Code: 80918

Search Results _____

City	Region
Colorado Springs	Colorado

Select Cancel

4. Confirm the correct city and region, and click Select. The address form will now be filled in with the appropriate text.
5. Enter any additional optional information, such as a cross street or subdivision for the Customer.

Details

Once the Customer address has been entered, users may choose areas from the Jump To list located on the right side of the screen. To continue adding customer details, select **Details** from the Jump To list. The Details list contains contact information for the Customer, including phone number, e-mail, Dealer, Branch and Authority information.

The screenshot shows a contact information form with the following sections and fields:

- Contact:** Includes fields for Site, Home, Business, and Mobile. Each field has a dropdown arrow and a notepad icon to its left.
- E-mail:** Includes an E-Mail field with a dropdown arrow and a PDF dropdown menu to its right.
- Web:** Includes a Web Address field with a globe icon to its left.
- Dealer:** Includes a Dealer field with a dropdown arrow and a person icon to its left.
- Branch:** Includes a Branch field with a dropdown arrow and a location pin icon to its left.
- Authorities:** Includes fields for Police, Fire, and Medical, each with a dropdown arrow and a police badge icon to its left.

1. Enter the Site phone number for the Customer. If the Site phone number is not the primary number to call for this customer, use the down arrow to the right of the number title to select the correct type for the first number to call, such as cell or business phone.
2. Click in the text field for the phone number and enter the number, beginning with the area code.
3. To enter additional details, click on the notepad icon to the left of the phone number field. A Contact Point Properties window will appear:

The screenshot shows the 'Contact Point Properties' dialog box with the following fields and buttons:

- Site:** Text field containing '(719) 123-4567'
- Extension:** Empty text field
- Script:** Empty dropdown menu
- Buttons:** OK and Cancel

4. Select Properties.
5. Enter an extension if applicable.

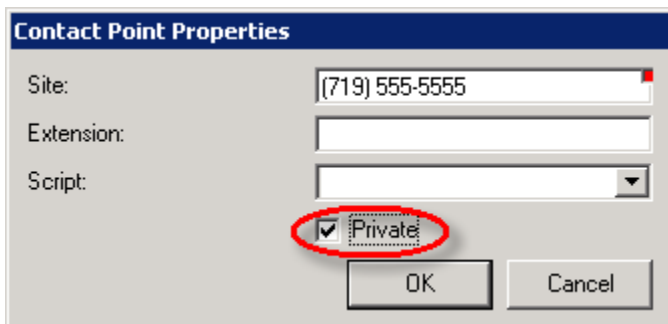
6. If a script is associated with this phone number (applicable in the case of numeric PIN numbers or codes), select the script from the drop-down menu.
7. Click OK to return to the Details window. Repeat the above steps for all Customer contact numbers.

Private Phone Numbers

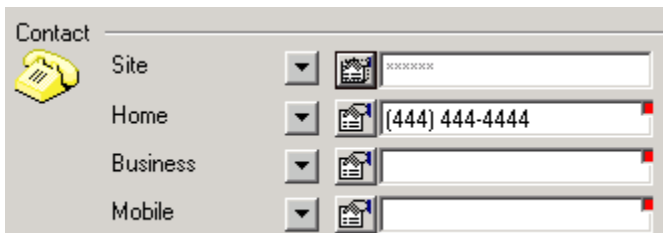
To make a contact point private, go to its Properties dialog and check the Private checkbox.



Check the "Private" checkbox to make the number private:



The phone number will now display as private:



The number will appear as asterisks everywhere in the Manitou client, including activity logs, reports, and so forth. The actual value of the contact point is still stored in the database, and can still be used by the Auto-dialer dialog. The only way to reveal a private phone number is by clicking the "Show" button on the Auto-dialer dialog, which will display the number and also log in the System Log the fact that the number has been revealed. The ticket printer is the exception and always prints out the actual values of contact points, regardless of their private status.

Private Phone Numbers and Reports

When a report fails to publish, the System Log entry created replaces hidden destination addresses with “*****”. The address is saved in the database for auditing purposes, but not revealed via the clients.

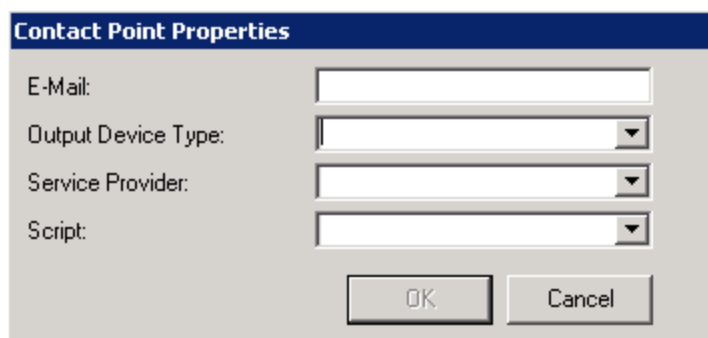
Exposed Private Numbers

There are a few remaining places where private contact points may be exposed:

- Contact points that are synchronized with accounting systems (Navision, Sedona, Quickbooks). The contact points are still hidden in Manitou, but may be visible in the accounting software.
- Contact search dialog: results are hidden when returned, but if the Operator can guess the value of a private contact point, this could be used to verify that their guess was correct.
- The monitoring company’s callback number for pages (Options setting) is linked to a company’s Contact Point. This means that if this number is marked private, it can still be viewed in the Options form in the Supervisor Workstation.
- Retransmission reverse commands can embed contact points in their parameter values. The resulting signals are logged by the FEP in the system application log and in FEP debug files.

E-mail

1. Click in the e-mail address field and enter the entire e-mail address for the Customer. Users may wish to enter e-mail address in the event that reports need to be e-mailed to a Customer on a weekly basis. Currently, reports are e-mailed in PDF format.
2. Click on the notepad icon next to the e-mail field to bring up the E-mail Contact Point Properties window:



The screenshot shows a dialog box titled "Contact Point Properties". It contains four input fields: "E-Mail" (a text box), "Output Device Type" (a dropdown menu), "Service Provider" (a dropdown menu), and "Script" (a dropdown menu). At the bottom of the dialog are two buttons: "OK" and "Cancel".

3. The E-mail Contact Point Properties may be used to specify scripts E-mailed to the customer in the event a certain type of signal is received.
4. Select the Output Device Type.

5. Select the Service Provider.
6. Select the Script from the drop-down menu. These properties will be pre-defined in the Supervisor Workstation.
7. Click OK.
8. To enter more than one e-mail address, click on the down arrow to the left of the E-mail field and select E-mail 2 or E-mail 3.
9. Repeat the above steps to enter additional e-mail addresses.

Web

1. Click in the Web address field to enter a Web address for this customer. Manitou will automatically copy the text after the @ symbol in the E-mail address and adds "www" to auto-fill the Web address. If there is no Web address, delete the entry.
2. If a different URL is necessary, enter the correct Web address. By default, the Web address is highlighted for correction or removal.

Dealer, Branches and Authority

1. In the Dealer field, click the drop-down arrow to the right of the Dealer field and select the applicable Dealer for the account. For more information on setting up Dealer accounts, see the section Operator Workstation: Dealers in this manual.
2. Click the drop-down arrow to the right of the Branch field and select the applicable Branch for the account. For more information on setting up Branches, see the section Operator Workstation: Branch in this manual.
3. Click the drop-down arrow to the right of the Police field and select the applicable Police department for this account. For more information on setting up Authorities, see the section Operator Workstation: Authority in this manual.
4. Click the drop-down arrow to the right of the Fire field to select the applicable Fire department.
5. Click the drop-down arrow to the right of the Medical Service field and select the applicable Medical branch for this account.
6. Review all items for accuracy and click Save.

Options

The Options page contains all information not classified elsewhere, including Passwords, Codes, Options, Account IDs, and Customer level Pager messages. The following instructions detail how to complete sections within the Options page.

1. Select Options from the Jump To menu. The Options page will appear:

Passwords

Password	Description	Duress
CHRISTMAS		<input type="checkbox"/>
STEWART		<input checked="" type="checkbox"/>
*		<input type="checkbox"/>

Default Script Message

{DT} Event Date
 {TM} Event Time
 {ET} Event Description
 {PR} Event Priority
 {DE} Event Code
 {CA} Event Category
 {AD} Event Area

Codes

Group Code:
 Class Code:
 Monitoring Group:

Options

Ignore Aborts Generate Unexpected Restores
 Auto Cancel Verify Panel User No.

Area Fill:
 Zone Fill:
 Time Format:

Underwriters Laboratories

UL Grade:
 UL Response Time: (Minutes)

2. Enter the main password the Customer has specified for the account. This password will be used to verify cancelling alarms when the Central Station contacts the customer. **Note:** Keyholders may or may not have separate passwords.
3. Click in the Duress Password Field.
4. Enter a Duress password. This password should be easy to remember, as well as innocuous to prevent tipping off an assailant in the event that the Central Station contacts the customer and an Authority should be dispatched to the premises.
5. In the Group Code field, click the drop-down arrow to reveal a list of Group codes which are previously defined in the Supervisor Workstation. Group Codes are used within Manitou to help categorize and report on categories of businesses that might have multiple branches or locations. It is helpful to give these groups a system of Codes for reporting and tracking purposes. To set up and define Group Codes, please refer to the *Maintenance: Codes* section in the Supervisor Workstation manual.
6. Select the appropriate Group Code for this account if applicable.

7. Click the drop-down arrow next to the Class Codes field to reveal the list of Class Codes which are previously defined in the Supervisor Workstation. Class Codes refer to a broad level of categorizing Customer accounts. For example, a grocery store chain may be assigned to a single Group Code to categorize the stores at a group level. At the next level, Class Codes are assigned to all grocery stores, regardless of a specific grocery store chain. To set up and define Class Codes, please refer to the *Maintenance: Codes* section in the Supervisor Workstation manual.
8. Select the appropriate Class Code for this account if applicable.
9. Click the drop-down arrow next to the Monitoring Group field to reveal a list of Monitoring Groups. Monitoring Groups are previously defined in the Supervisor Workstation. A Monitoring Group is used to distribute certain signals to particular groups of Operators based on a set criteria. Initially, a default Monitoring Group of 0 will be set upon installation of Manitou software. Should no other Monitoring Groups be added, no specific distribution of signals will be enabled. Should Monitoring Groups be added, certain customer records can be directed to a specific Monitoring Group, allowing Operators using *specific workstations* belonging to that Monitoring Group will receive signals from those customers. Thus, the Monitoring Groups are assigned to workstations and not Operators. To set up and define Class Codes, please refer to the *Maintenance: Setup: Monitoring Groups* section in the Supervisor Workstation manual.
10. Select the appropriate Monitoring Group from the drop-down list.

Options

11. If necessary for this account, check the Ignore Aborts checkbox. When Event Codes are set up in the Supervisor Workstation, certain signal processing attributes may allow an Operator to cancel an alarm which will ignore all other alarms associated with that account. Checking the Ignore Aborts checkbox will still allow the signals to be processed.
12. If necessary, check the Auto-Cancel checkbox. This command allows a signal to be canceled or aborted when the appropriate cancel signal arrives. This signal is defined in the Transmitter Programming Commands in the Supervisor Workstation.
13. If this account should generate unexpected restores, click the Generate Unexpected Restores checkbox.
14. Check the Verify Panel User No. checkbox if necessary.
15. In the Area Fill section, select the appropriate action.
16. In the Zone Fill section, select the appropriate action.
17. Select the Time Format from the drop-down menu.

18. Click into the top blank box and begin to write the default account Pager Message. When it is necessary to add an element from the Pager Message listing click the appropriate item then click Add. Repeat this process until the Pager Message is complete and reads normally in the lower view box. The pager message field is unlimited text.

19. Review all items on this page to verify the information is correct and accurate.

20. Click Save.

Systems

The System structure contains four different types of Systems: Event Monitoring, Access Control, GPS and Other (user defined). Each System contains the following attributes:

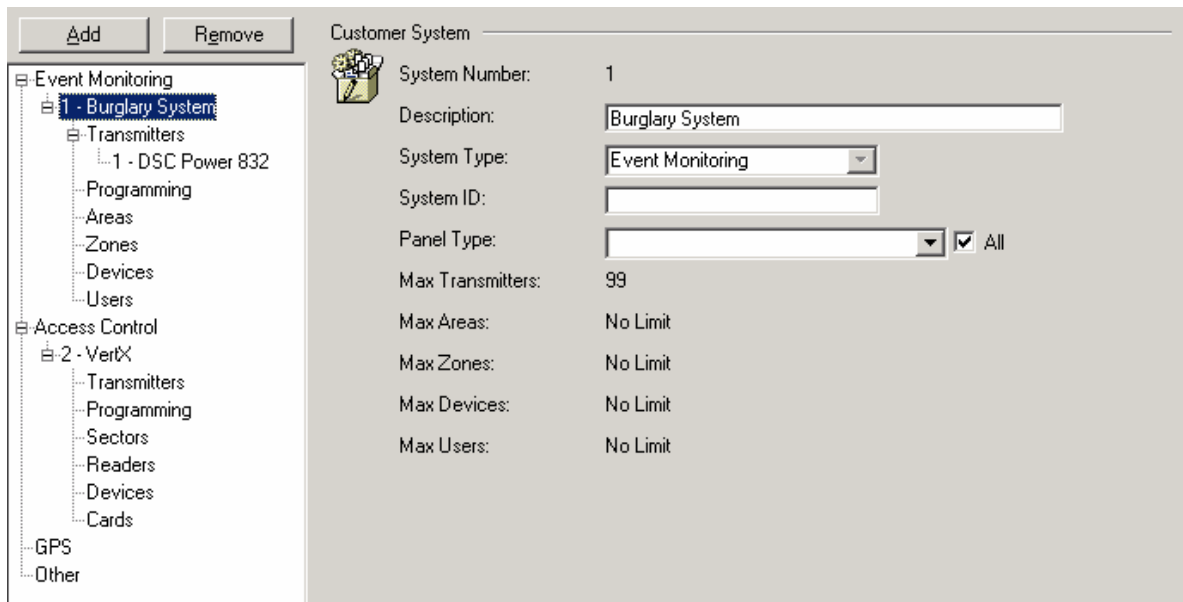
Event Monitoring

- Transmitter
- Programming
- Areas
- Zones
- Devices
- User IDs

Access Control

- Transmitters
- Programming
- Sectors
- Readers
- Devices
- Cards
- Modules
- Reader Groups
- Elevator Access Groups
- Elevator Groups
- Access Levels
- Card Sets
- Output Groups
- Programs

Customer System Screen Shot



The screenshot displays the 'Customer System' configuration window. On the left, a tree view shows the hierarchy: Event Monitoring > 1 - Burglary System > Transmitters > 1 - DSC Power 832. Below this are other categories like Access Control, GPS, and Other. The right side of the window contains configuration fields for the selected system:

- System Number: 1
- Description: Burglary System
- System Type: Event Monitoring
- System ID: (empty field)
- Panel Type: (dropdown menu) All
- Max Transmitters: 99
- Max Areas: No Limit
- Max Zones: No Limit
- Max Devices: No Limit
- Max Users: No Limit

Each system may have multiple transmitters. Additionally, each Event type system can have its own control panel type.

Drag and drop (move) and copy capability can be used in the new System form for moving and copying transmitter, transmitter programming, event programming, area, zone, sector and device information. The selected information can be moved or copied to another system of the same type (Event to Event, for example).

Note: A transmitter will be considered to belong to a GPS system if it is not a VertX transmitter and its Remote Address looks like a phone number.

For customers integrated with an accounting system, Manitou Systems will be tied to accounting systems as well.

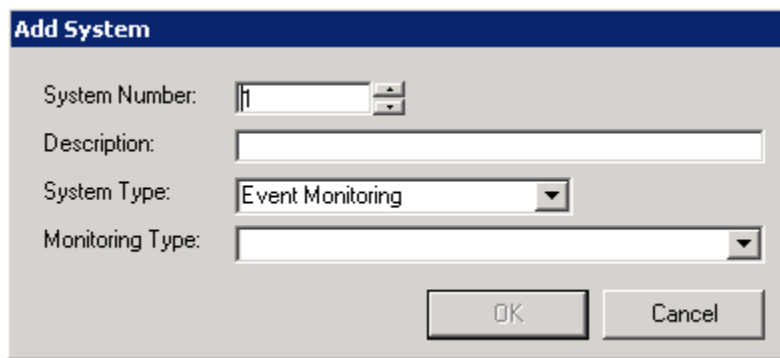
Benefits

When adding services in previous Manitou versions, Users needed to first add the service in the Services form before adding the actual service, such as Open/Close schedules. With the Systems form, once a service is set up, it is automatically added and takes away the need to add the service separately. The Systems form compiles everything needed to perform a service into one form instead of having to jump from form to form, as done in previous Manitou versions.

Additionally, it will be easier for Operators to see what Systems the customers have since the breakdown is visible in the main customer form for GPS, Access Control, Event Monitoring and other user-defined services.

Event Monitoring

1. Click on the Edit button to put the screen into Edit mode.
2. Click on the Add button located above the System tree. An Add System box will appear:



The screenshot shows a dialog box titled "Add System". It contains the following fields and controls:

- System Number:** A text input field with a spinner control on the right.
- Description:** A standard text input field.
- System Type:** A dropdown menu with "Event Monitoring" selected.
- Monitoring Type:** A dropdown menu.
- Buttons:** "OK" and "Cancel" buttons at the bottom right.

3. Enter the System Number.
4. Enter a brief description of the system into the Description field. For example, if this is a Burglary system, enter Burglary.
5. Select Event Monitoring from the System Type drop-down menu if it is not already selected.
6. Select the Monitoring Type. Monitoring Types are defined in the Supervisor Workstation under *Maintenance: Monitoring Types*. Please refer to the Monitoring Types section in the Supervisor Workstation manual for further information and instruction on adding and configuring Monitoring Types.
7. Click OK.
8. Back at the main Customer System screen, enter the System ID.
9. Select the Panel Type from the drop-down menu. Based on the Panel Type selected, the maximum number of transmitters may be lower than the maximum amount set in the Monitoring Types form in the Supervisor Workstation. If this occurs, Manitou will use the lower number of transmitters allowed.
10. Based on the type of Event Monitoring added, additional forms may appear, such as Transmitters, Programming, Transmitter Linking, Areas, Zones, Devices and Users. If these forms are available, please see the following sections for additional setup.



Drag and Drop

Users can drag and drop (move and copy) transmitter information, transmitter programming, area, zone, sector and device information. The selected information can be moved or copied to another system of the same type (Event to Event, for example).

Sub-accounts will have a special "pseudo transmitter" created for each Event monitoring system that represents the signal activity directed to it from its main customer. This allows for the normal programming of events that would occur at the sub-account level such as Late-To-Open. For received signal activity, only the transmitter programming of the main customer will be used, while transmitter programming at the sub-account level will only be used for internally generated signals of the sub-account. The event programming of the sub-account will be used for all of its signal activity. Main and internally generated-will not use any event programming of the main customer. This pseudo transmitter also allows for the configuring of Late-to-Test at the sub-account level. A test interval can be set for this pseudo transmitter. Sub-accounts can have their own Access Control, GPS and Other type systems (not redirected from its main customer).

Transmitters

Transmitters allow routing of signals from the receiver to the Manitou Client, and then to the correct customer information. In Manitou version 1.5.0 and beyond, transmitters are located under the Systems form. Each system may have multiple transmitters. Additionally, each Event type system can have its own control panel type.

Start by clicking on the Add button to add a transmitter to the system. The Add transmitter dialog will appear:

A screenshot of a software dialog box titled "Add Transmitter". The dialog has a dark blue header bar with the title in white. Below the header, there are two input fields: "Transmitter No." with a small spinner control and a "Description:" with a text box. At the bottom right, there are two buttons: "OK" and "Cancel".

The first available transmitter number will load automatically into the Transmitter No. field. This is an ordinal number, and not to be confused as a transmitter identifier. For example, Transmitter 1 is the first transmitter on the customer account. In most situations, it is the only transmitter. However, there may be times when there is more than one transmitter linked to the account.

If needed, enter a transmitter description. This is recommended as it makes it easier to identify one transmitter from another. Best practice is to use the field as a description of the type of category. In this example, it is an Event Category (Burglary) transmitter, so best practices

would dictate naming the Transmitter “Burglary” or “Fire” depending on the type of Event Monitoring. Click OK once the description has been added, and to return to the Transmitter form.

Transmitter

Transmitter No: 1

Description: DEFAULT

Transmitter Type: TEST All

Receiver Line Prefix: 00 Caller ID 1:

Transmitter ID: 8886 Caller ID 2:

TX Protocol Type: Remote Address:

Transmitter Dates

Path-Enabled Date: 01/01/1900

Connect Date: 01/01/1900

Termination Date: 01/01/1900

Offsets

Area Offset:

Zone Offset:

Sensor Offset:

Options

Generate Restore Overdues Audio Capable

Any Activity Satisfies Test Video Capable

Extended Signaling Raw Event Programming

Do not use Dealer Programming Monitored Transmission Path

Generate L-T-T Only When Closed Backup Transmitter

Regular Activity Expected

Transmitter Test

Interval:

Notes

Once back at the main Transmitter form, select the Transmitter Type from the drop-down list. Transmitters are added and configured in the Supervisor Workstation. After selecting the Transmitter, select the Receiver Line Prefix for the Transmitter. The Receiver Line Prefix is the identifier that differentiates the Transmitter IDs coming in on the same Receiver.

In the Transmitter ID field, enter the ID. If using Transmitter ranges, clicking the Next (arrow) button will automatically populate the field with the next available account number. If no ranges are available, the Operator must manually enter the Transmitter ID.

If applicable, enter in any Caller ID or Remote Address information.

Offsets

Offsets are added to whatever area the signal is received on, so an offset of 1 will make a signal sent on Area 1 present to Area 2. Similarly, an offset of F will make a signal sent on Area 1 present as Area 10. Multiple transmitters must be set up on a system, otherwise the offsets will not be enabled. The Offsets are hexadecimal, accepting characters 0-9 and A-F.

The offset fields are of differing lengths:

- Area is 4 digits
- Zone is 5 digits
- Sensor is 12 digits

Programming applies to the area/zone/sensor after the offset is applied, so any programming must account for the offset if relying on a specific input area/zone/sensor.

Transmitter Options

Several options are available with Transmitters and may be used in a number of ways.

- **Generate Restore Overdues** – This option allows for the programming of time-out periods for events that restore event programming required. If no restore is received within the time-out period, a new alarm is generated called “Restore Overdue.”
- **Any Activity Satisfies Test** – This option indicates that if the Transmitter receives any event (such as an open, close, burglary, fire or other event), the event will satisfied the test requirements for the interval. This option is only available when a Service for Transmitter Test is also selected.
- **Extended Signaling** – Setting this flag will state that this Transmitter sends in an Extended format. This does **not** trigger a wait time on signals received from the Transmitter. The Receiver driver will recognize the event based on its format as extended signaling and will wait for the secondary signal in the designated wait period. The wait period is previously defined and cannot be changed or configured by an end user.
- **Regular Activity Expected** – Checking this option signifies that activity (events) are expected to be received on a regular basis.
- **Do not use Dealer programming** – This will prevent the Manitou client from checking the customer’s Dealer record for what to do when a specific alarm is received. Dealer programming is set up in the Dealer programming form.
- **Generate L-T-T only when closed** – This will generate a Late-to-Test event when the site is closed (armed).
- **Audio/Video Capable** - These two check boxes are only enabled when the Audio and/or Video Monitoring Services are selected for the account. They simply flag the transmitter is

capable of sending audio and/or video signals.

- **Raw Event Programming** – This allows the ability to program raw signals instead of how they are translated either through the receiver drivers or within Event Maps. This is often turned on when a site is converting from an older system into Manitou. However, it is most often not necessary on new accounts added into the Manitou system.
- **Monitored Transmission Path** – This sets a flag on the transmitter that the transmitter keeps an open path of communication alive and when severed the transmission path will generate an alarm and show the status red or green for error or okay, respectively.

If Transmitter Test is needed, click or tab into the Interval field and enter the interval number or use the up/down arrows to the right of the field. **Adding a Transmitter Test on the Transmitters form will automatically add the service to the Services form.**

Tab or click into the Remote Address field and enter the Remote Address information (non-required field).


If the account has more than one more Transmitter, click Add and repeat the above steps for all additional Transmitters.

Click Save.

Note: A transmitter will be considered to belong to a GPS system if it is not a VertX transmitter and its Remote Address looks like a phone number.


Programming

In order to guarantee proper signal processing, **Programming** is required for every system. Programming defines and decodes information received from the transmitters through the receivers. For instance, a transmitter may send a generic message that an alarm sounded in a specific area or zone. The receiver passes this message on to the application. However, the system is unable to decipher what activation in the area/zone means without the proper programming. The programming then exists to translate the activation on that area/zone to a burglary, fire, or other alarm. Programming will also allow for the definition of specific actions to complete on the alarm, such as call police and then Keyholder on the account.

Transmitter Programming 

Show merged Transmitter Programming for Transmitter:

	Input			Output			Commands
	TX	DES	Zone	Event	Description	Track ID	
*							

Event Actions Programming 

	Event	TX	Track ID	Alarm	Actions	Instructions
*						

1. Open the Programming form by clicking on Programming button in the Systems list.
2. Click on the Edit button to put the screen into Edit mode. A blank line will appear in the Transmitter Programming form.
3. Click into the empty cell under the TX cell. A drop-down arrow will appear.
4. Click on the drop-down arrow and select the Transmitter from the drop-down menu.
5. Tab into the DES (Description) cell and click on the drop-down arrow.
6. Select a description of the incoming item. For example, if this is a Burglary Verified, select BV from the list.
7. Tab into the Area cell and click on the drop-down arrow.
8. Select an area if applicable.
9. Tab into the Zone cell and click on the drop-down arrow.
10. Select a Zone if applicable.
11. Tab into the Sensor cell and click on the drop-down arrow.
12. Select a Sensor if applicable.

13. Tab into the Event cell and click on the drop-down arrow.
14. Select an Event from the list if applicable.
15. Enter a brief description into the Description cell of the Event.
16. Enter the Area, Zone and Sensor if appropriate.
17. Enter a Point ID (a description of the area) if appropriate.
18. Click Save.

Event Actions Programming

1. Click in the Event cell and select an event from the drop-down list.
2. Tab into the TX (Transmitter) cell and select a TX from the drop-down menu.
3. In the Track ID area, enter the Asset Tracking ID if applicable.
4. In the Area and Zone cells, select an Area and Zone from the drop-down menu.
5. In the Alarm cell, select Yes, No or Default from the drop-down menu. Selecting yes will sound an alarm every time the parameters are met. Selecting No will not sound an alarm when the parameters are met. Selecting Default will set the system to execute its programming based on the parameters.
6. In the Actions cell, select an Action if appropriate.
7. In the Instructions cell, click on the ellipses button to bring up the Customer Specific Signal Instructions box:

8. Enter any specific instructions pertaining to the Customer. The instructions entered here will appear on the Notes tab of the Alarm Handling screen.
9. Click OK.
10. Once finished, review all items for accuracy.
11. Click Save.

Multiple Test Timers

Multiple test timers are first set up in the Supervisor Workstation > Event Codes. Users must take the code that is coming in and change it to a code with the soft programming attribute of "t". This lets the system know that the test signal should not be applied to the main transmitter.

Back at the Operator Workstation, programming must be set up at the customer Transmitter Programming level to redirect the incoming signal:

1	#E602	*	*	RP1	Auto Test - MultiSy	=	SY2	=	WEEKLY TEST
---	-------	---	---	-----	---------------------	---	-----	---	-------------

In this example, #E602 on Zone 0 is redirected to a code "RP1" on Zone SY2. Users cannot specify a specific zero as the zone; it must be left blank as Manitou will strip zeros. You may also use an asterisk (*) instead of a blank zone, but caution that if different panels exist and all may be sending an E602 signal, but with different zone numbers. Using an asterisk will take precedence over all other programming lines when used with raw programming.

Click on the Transmitters form under Systems and enter the transmitter test interval:

Transmitter

Transmitter No: 2

Description: 35002102-A

Transmitter Type: DFLT All

Receiver Line Prefix: ZZ Caller ID 1:

Transmitter ID: 35002102-A Caller ID 2:

TX Protocol Type: Remote Address:

Transmitter Dates

Path-Enabled Date:

Connect Date:

Termination Date:

Options

Generate Restore Overdues Audio Capable

Any Activity Satisfies Test Video Capable

Extended Signaling Raw Event Programming

Do not use Dealer Programming Monitored Transmission Path

Generate L-T-T Only When Closed Backup Transmitter

Regular Activity Expected

Transmitter Test

Interval: 169 Hours

Last, set up the transmitter linking in the primary system. This linking is based off of the zones that were redirected in transmitter programming:

Transmitter Linking


	Output				Redirect		
	TX	Area	Zone	Event Category	System	Area	Zone
▶	1	*	SY2		2	=	=
	1	*	SY3		3	=	=

Transmitter Linking

When a second system is added to Event Monitoring, Transmitter Linking becomes available. Transmitter Linking is used with sub-accounts and is used to direct signals to other systems of the same customer or to other systems of a sub-account. This allows for more control of signal redirection. For example, Zone 1 signals from Transmitter 1 of System 1 can be redirected, but Zone 1 signals from Transmitter 2 of the same System can be left alone.

Transmitter Linking with a Sub-Account

Transmitter Linking



	Output				Redirect			
	TX	Area	Zone	Event Category	Sub Account	System	Area	Zone
▶ 1	2	1			492	1	1	=
1	2	2			492	1	1	=
1	2	3			494	1	1	1
1	2	4			494	1	1	2
*								

Transmitter linking can also be used to map messages to a different event monitoring system within the same account (e.g., separate Fire and Burglary systems are set up but the messages are physically received from the same transmitter).

Sub-account directing is no longer on the Area and Zone grids. A new grid exists at the transmitter level that is used to direct signals to other systems of the same customer or to other systems of a sub-account. This replaces the transmitter linking grid that is no longer needed. This allows for more control of signal redirection. For example, Zone 1 signals from Transmitter 1 of System 1 can be redirected, but Zone 1 signals from Transmitter 2 of the same System can be left alone.

Zones and Areas

Areas and Zones are places inside the residence or site where monitoring may be established and used to direct customers or Authorities to specific areas that alarms are sending a signal. Zones are a smaller unit and several Zones can fit inside one Area.

Zones & Areas

Sort Begin System Test Query System Test

System Zones

Zone	Signal	Description
1	<input checked="" type="radio"/> Received a Signal	Kitchen
2	<input type="radio"/> Never Received	Living Room
*		

System Areas

Area	Description	Status
1	Default Area	<input type="radio"/> Unknown
*		

Add a Zone

1. Put the screen in Edit mode.
2. In the top left Zone cell, enter a Zone number. The Zone number may be specified by the customer during initial setup.
3. In the Signal cell, select "Received a Signal" if a test of the monitoring device has received a signal from that Zone.
4. Enter a brief description of the Zone into the Description cell.
5. To enter another Zone, tab into the next cell, and repeat the above steps as necessary.

Add an Area

1. In the left Area cell, enter the Area number into the Area cell.
2. Enter a brief Description. This description should include the Zones in the Area.
3. The Status will show as Unknown until a System test is performed and a signal is received.



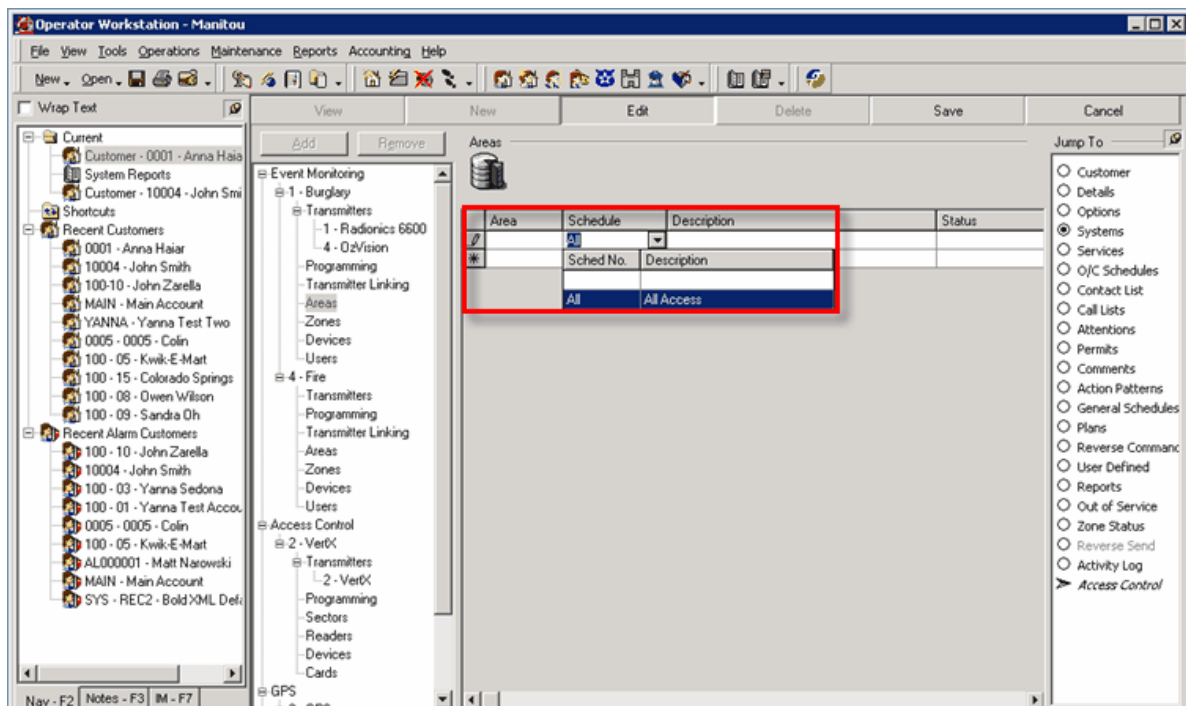
Zones can be deleted as a group instead of having to delete each zone

individually.

All Access Schedules

Because of changes to Manitou 1.5 that forces services based upon data entry, All Schedules allows a system to send opening and closing signals for the sole purpose of logging the signals. While Manitou 1.4.9 allowed users to add an Open/Close service even if no area had a schedule attached, Manitou 1.5 does not allow this. By attaching an All Access schedule to an area, it will now force a Monitoring Service which will trigger additional billing for the Opening/Closing activity. This eliminates the Central Station from having to enter a dummy "All Access" schedule on each customer record whenever they needed to allow an Open/Close service without an attached area, such as residential systems that send opening and closing signals so that the Central Station will know if the system is armed or not.

To select an All Access schedule, simply click in the Schedule field of the Areas form and select "All Access":



System and Query Tests

System and Query tests may be performed once a Zone and/or Area has been set up. The System test will test the Zones/Areas to see if a signal has been received. Once the signal is

received, the Signal Status will change to "Received Signal." If a signal has not been received, the status will change to "Signal Not Received."

1. To perform a System Test, simply click on the "Begin System Test" button located above the System Zones area.
2. Click Yes to begin the System Test.
3. If the System is Active, a prompt will appear, asking to continue. Click Yes.

If the Zone system is active, the Signal Status will change. If it is not active, the Signal Status will remain red.

Query System Test

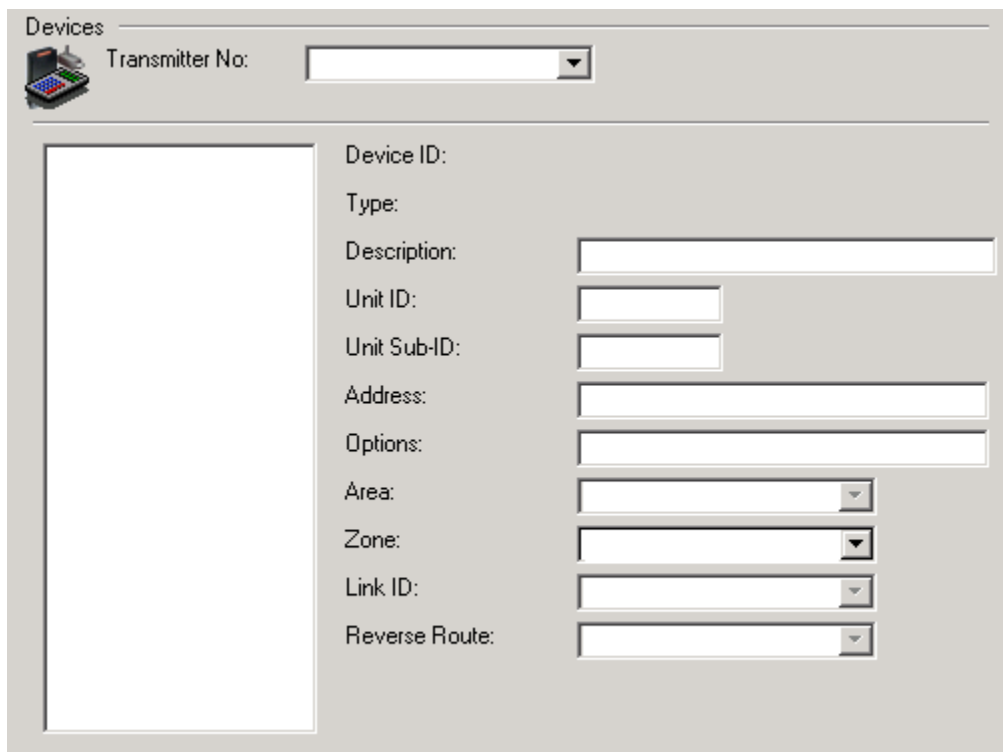
The Query System Test tool can be used to see how many Zones received a signal and how many Zones have not received a signal. The user can also complete a System Test from the Query Test as well.

To perform the Query test, click on the Query System Test button. The results (Zones received and Zones not received) will appear in the Query Test box. To perform a System Test, check the "Perform System Test" box and click OK.

Devices

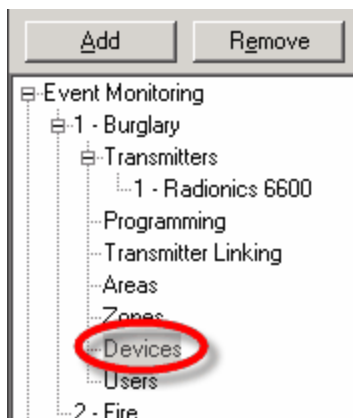
Devices can be used for additional monitoring and may be configured for cameras, microphones, control/sensor, URL or doors. These items can be put on a Plan and actioned if a connect or control device is added.

Devices form

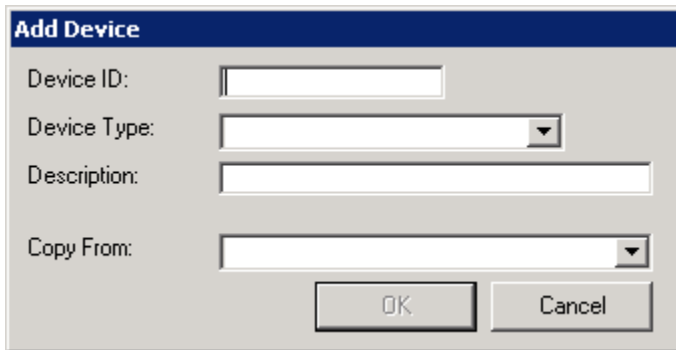


Add a Device to Event Monitoring

1. Once a system, such as a burglary system, has been added to Event Monitoring, select Devices from the Event Monitoring tree:



2. Click on the Add button located above the tree. An Add Device box will appear:



The image shows a dialog box titled "Add Device". It contains four input fields: "Device ID" (a text box), "Device Type" (a drop-down menu), "Description" (a text box), and "Copy From" (a drop-down menu). At the bottom of the dialog are two buttons: "OK" and "Cancel".

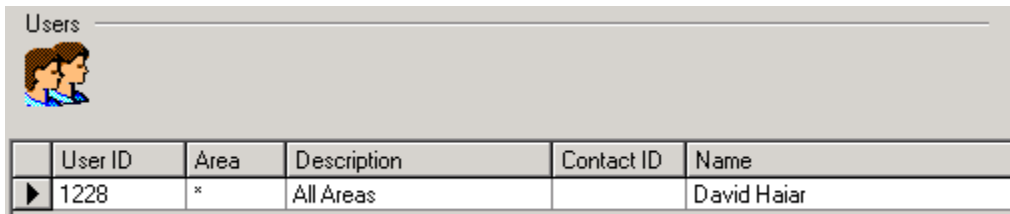
3. Enter the Device ID. This is a 12 character ID uniquely identifying the device. For devices attached to an access control system, the Device ID is automatically set for the use when creating it. This is necessary so that the Signal Handler can match messages received with the appropriate device.
4. Select the Device Type from the drop-down menu: video, audio, input, output, URL or door.
5. Enter a brief description into the Description field.
6. Click OK.
7. Back at the main Devices form, refer to the Manitou Audio/Video Configuration document to enter the following parameters:
 - Unit ID
 - Unit Sub-ID
 - Address
 - Options
8. These parameters change depending on the type and model of device selected.
9. Enter the Area and Zone linked to the Device.
10. Select the Link ID if applicable.
11. Select the Reverse Route if applicable.
12. Select the Video Type from the drop-down menu.
13. Click Save.

Users

Users are tied into the Contact List. When a new contact is set up for a customer, a User ID may be assigned to the contact under the Details tab. For more information on assigning User

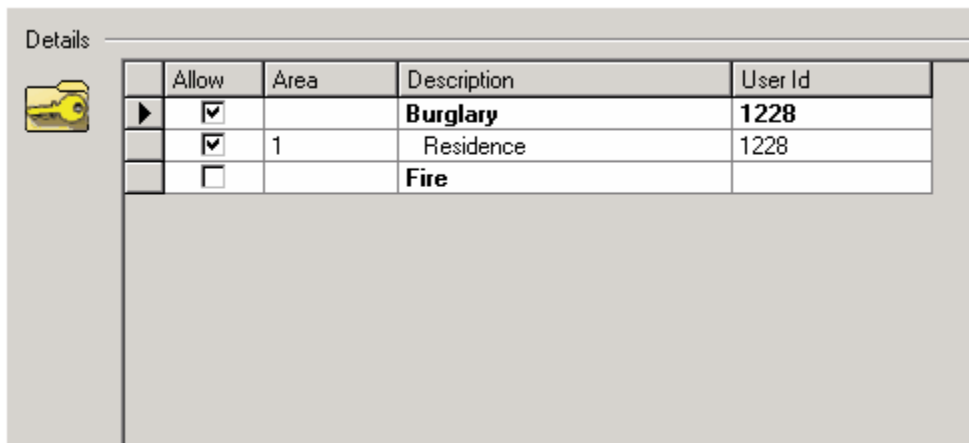
IDs, see the Maintenance: Contact List section of this manual.

Once a User ID has been assigned to a Contact, the contacts will automatically appear in the Users form under Systems.



User ID	Area	Description	Contact ID	Name
▶ 1228	*	All Areas		David Haiar

Though this screen is read-only, access details can be changed by double-clicking on a User ID and editing the Details form:



Allow	Area	Description	User Id
▶ <input checked="" type="checkbox"/>		Burglary	1228
<input checked="" type="checkbox"/>	1	Residence	1228
<input type="checkbox"/>		Fire	

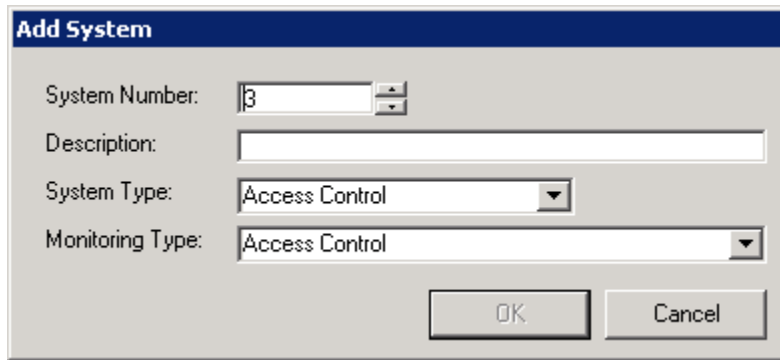
From here, users can allow access, specify areas, and enter/edit User IDs. Once changes are made, click Save.

Reminders

Please see the Reminders topic for further information.

Access Control

1. Click on the Edit button to put the screen into Edit mode.
2. Click on the Add button located above the System tree. An Add System box will appear:



The screenshot shows a dialog box titled "Add System". It contains the following fields and controls:

- System Number:** A text box containing the number "3".
- Description:** An empty text box.
- System Type:** A dropdown menu with "Access Control" selected.
- Monitoring Type:** A dropdown menu with "Access Control" selected.
- Buttons:** "OK" and "Cancel" buttons at the bottom right.

3. Enter the System Number.
4. Enter VertX into the Description field.
5. Select Access Control from the System Type drop-down menu if it is not already selected.
6. Select the Monitoring Type. Monitoring Types are defined in the Supervisor Workstation under *Maintenance: Monitoring Types*. Please refer to the Monitoring Types section in the Supervisor Workstation manual for further information and instruction on adding and configuring Monitoring Types.
7. Click OK.
8. Back at the main Customer System screen, enter the System ID.
9. Select the Panel Type from the drop-down menu. Based on the Panel Type selected, the maximum number of transmitters may be lower than the maximum amount set in the Monitoring Types form in the Supervisor Workstation. If this occurs, Manitou will use the lower number of transmitters allowed.
10. Based on the type of Event Monitoring added, additional forms may appear, such as Transmitters, Programming, Transmitter Linking, Areas, Zones, Devices and Users. If these forms are available, please see the following sections for additional setup.

Transmitters


After the initial set up, a VertX access controller is added to the system as a transmitter. Some information needed to complete transmitter set up will be collected during the customer hardware installation.

1. Select Transmitters from the Access Control tree and click on the Add button. The Add Transmitter box will appear.
2. Enter a brief description for the transmitter and click OK.
3. Back at the Transmitter form, select the appropriate transmitter type, V1K or V2K, from the Transmitter Type drop-down menu.

4. Select the receiver line prefix of the Bold IP Receiver from the drop-down menu.
5. Enter the right six character of the VertX access controller's MAC address in the Transmitter ID field. Remove any leading zeros from the address. If any letters in the address exist, enter them using capital letters.
6. In the Remote Address field, enter the VertX Public IP address followed by ":4050". The number 4050 is the TCP port number that is used to connect to the VertX access controller.
7. Check VertX Access Control Device in the Options section of the form. This will enable the Access Control section of the Jump To menu.
8. Enter a transmitter test interval. The VertX access controller has a maximum test interval of one day.


Programming

In order to guarantee proper signal processing, **Programming** is required for every system. Programming defines and decodes information received from the transmitters through the receivers. For instance, a transmitter may send a generic message that an alarm sounded in a specific area or zone. The receiver passes this message on to the application. However, the system is unable to decipher what activation in the area/zone means without the proper programming. The programming then exists to translate the activation on that area/zone to a burglary, fire, or other alarm. Programming will also allow for the definition of specific actions to complete on the alarm, such as call police and then Keyholder on the account.

Transmitter Programming 

Show merged Transmitter Programming for Transmitter:

	Input			Output			Commands
	TX	DES	Zone	Event	Description	Track ID	
*							

Event Actions Programming 

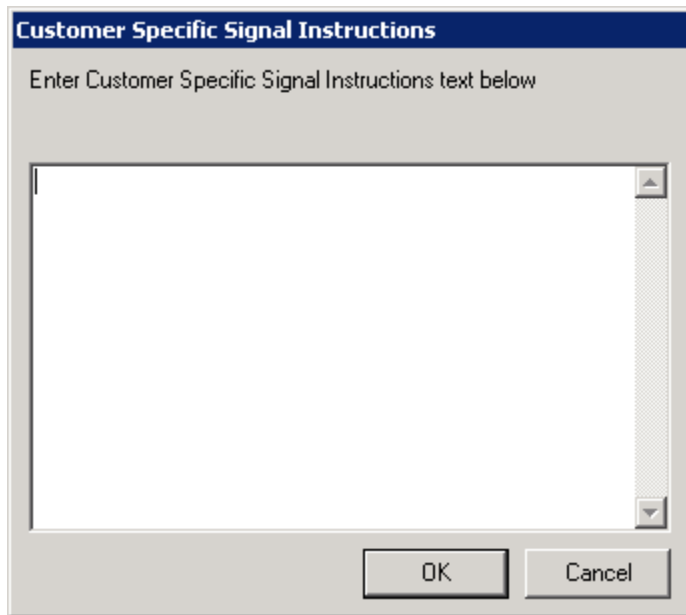
	Event	TX	Track ID	Alarm	Actions	Instructions
*						

1. Open the Programming form by clicking on Programming button in the Systems list.
2. Click on the Edit button to put the screen into Edit mode. A blank line will appear in the Transmitter Programming form.
3. Click into the empty cell under the TX cell. A drop-down arrow will appear.
4. Click on the drop-down arrow and select the Transmitter from the drop-down menu.
5. Tab into the DES (Description) cell and click on the drop-down arrow.
6. Select a description of the incoming item. For example, if this is a Burglary Verified, select BV from the list.
7. Tab into the Area cell and click on the drop-down arrow.
8. Select an area if applicable.
9. Tab into the Zone cell and click on the drop-down arrow.
10. Select a Zone if applicable.
11. Tab into the Sensor cell and click on the drop-down arrow.
12. Select a Sensor if applicable.

13. Tab into the Event cell and click on the drop-down arrow.
14. Select an Event from the list if applicable.
15. Enter a brief description into the Description cell of the Event.
16. Enter the Area, Zone and Sensor if appropriate.
17. Enter a Point ID (a description of the area) if appropriate.
18. Click Save.

Event Actions Programming

1. Click in the Event cell and select an event from the drop-down list.
2. Tab into the TX (Transmitter) cell and select a TX from the drop-down menu.
3. In the Track ID area, enter the Asset Tracking ID if applicable.
4. In the Area and Zone cells, select an Area and Zone from the drop-down menu.
5. In the Alarm cell, select Yes, No or Default from the drop-down menu. Selecting yes will sound an alarm every time the parameters are met. Selecting No will not sound an alarm when the parameters are met. Selecting Default will set the system to execute its programming based on the parameters.
6. In the Actions cell, select an Action if appropriate.
7. In the Instructions cell, click on the ellipses button to bring up the Customer Specific Signal Instructions box:

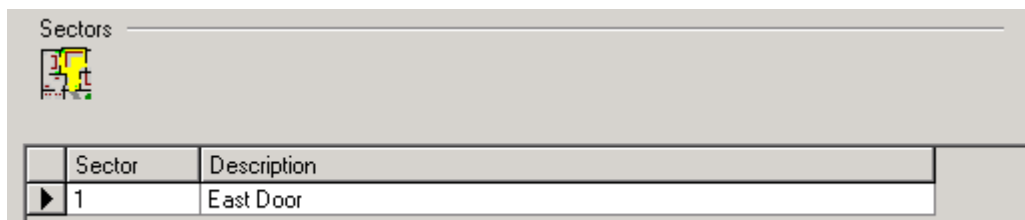


The dialog box has a title bar that reads "Customer Specific Signal Instructions". Below the title bar, there is a text prompt: "Enter Customer Specific Signal Instructions text below". A large, empty text area with a vertical scrollbar is positioned in the center. At the bottom of the dialog, there are two buttons: "OK" and "Cancel".

8. Enter any specific instructions pertaining to the Customer. The instructions entered here will appear on the Notes tab of the Alarm Handling screen.
9. Click OK.
10. Once finished, review all items for accuracy.
11. Click Save.

Sectors

Sectors can be used to track where persons are located. For example, an office building may have three sectors. The first sector may be set up for outside of the building, while the second sector is the inside of the building, and the third sector is executive offices. When a person uses their access card to gain entry into the building, Access Control will record that a person went from outside the building to inside the building based on the sectors set up on the Reader.



The screenshot shows a window titled "Sectors" with a small icon of a building. Below the title bar is a table with two columns: "Sector" and "Description". The table contains one row with the value "1" in the "Sector" column and "East Door" in the "Description" column.

Sector	Description
1	East Door

Add a Sector

1. Put the screen into Edit mode by clicking on the Edit button.
2. In the Sector field, enter the number of the sector. This is used for identification purposes.

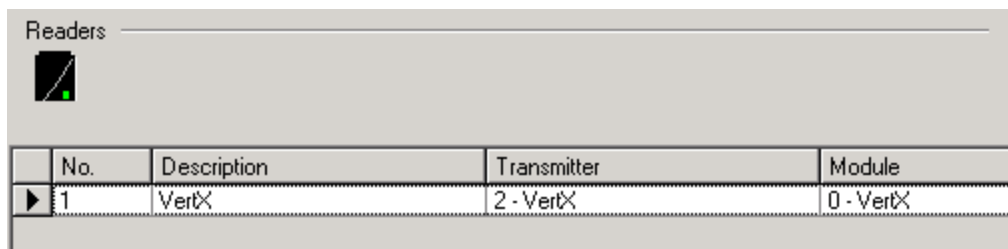
3. Enter a brief description into the Description field.
4. Enter any additional sectors by repeating the process.
5. When finished, click Save.

Readers

Readers pertain to the actual hardware reader that is installed near entries and exits and is used to swipe an access card to gain access to a door. The reader is connected to a module. Each module can have two readers: one reader on the 0 (zero) port and one on the 1 port. Depending the type of hardware used, such as cards only or pin pads, the options entered into Manitou on the reader form may vary.

Before a Reader may be added to the customer account, the type of Reader must be added to the Access Control for the customer account. See the Maintenance Menu: Access Control section of this document for further instruction on adding Access Control to an account.

Once the Reader has been added and configured, it will automatically display in the Readers section of the Access Control System Setup. The form will display the Reader number, description, the transmitter associated with the reader, and the module:

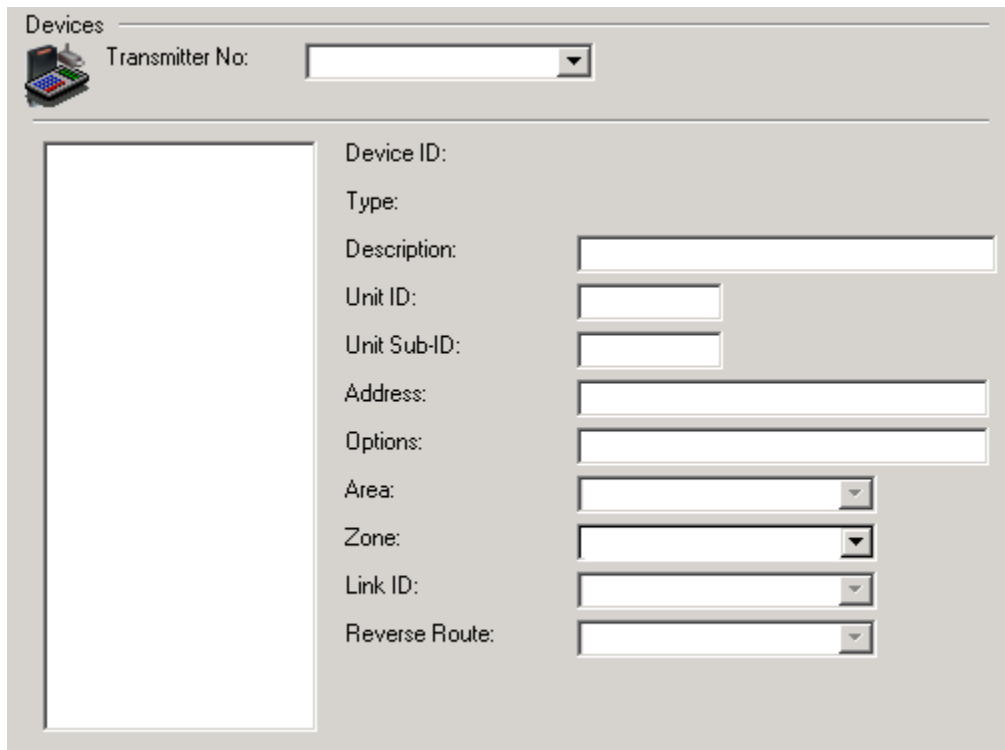


No.	Description	Transmitter	Module
1	VertX	2 - VertX	0 - VertX

Devices

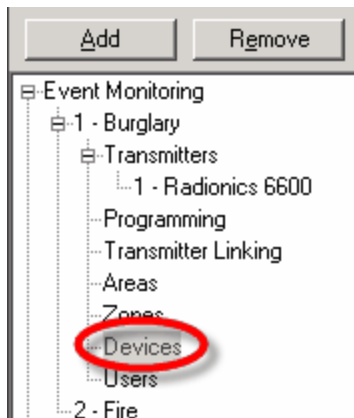
Devices can be used for additional monitoring and may be configured for cameras, microphones, control/sensor, URL or doors. These items can be put on a Plan and actioned if a connect or control device is added.

Devices form

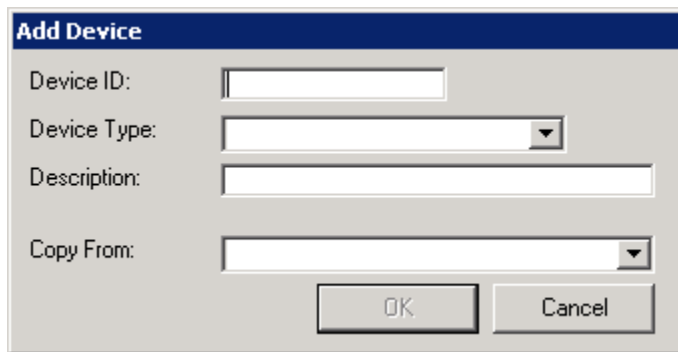


Add a Device to Event Monitoring

1. Once a system, such as a burglary system, has been added to Event Monitoring, select Devices from the Event Monitoring tree:



2. Click on the Add button located above the tree. An Add Device box will appear:



The image shows a dialog box titled "Add Device". It contains four input fields: "Device ID" (a text box), "Device Type" (a drop-down menu), "Description" (a text box), and "Copy From" (a drop-down menu). At the bottom of the dialog are two buttons: "OK" and "Cancel".

3. Enter the Device ID. This is a 12 character ID uniquely identifying the device. For devices attached to an access control system, the Device ID is automatically set for the use when creating it. This is necessary so that the Signal Handler can match messages received with the appropriate device.
4. Select the Device Type from the drop-down menu: video, audio, input, output, URL or door.
5. Enter a brief description into the Description field.
6. Click OK.
7. Back at the main Devices form, refer to the Manitou Audio/Video Configuration document to enter the following parameters:
 - Unit ID
 - Unit Sub-ID
 - Address
 - Options
8. These parameters change depending on the type and model of device selected.
9. Enter the Area and Zone linked to the Device.
10. Select the Link ID if applicable.
11. Select the Reverse Route if applicable.
12. Select the Video Type from the drop-down menu.
13. Click Save.

Cards

Cards are initially set up in the Contact List. Once a contact has been added and the Access Control System with a transmitter has been added to the System, a new Access Control Cards tab will appear in the Contact List form.

Access Control Cards

Card	Transmitter	Card Set	PIN
------	-------------	----------	-----

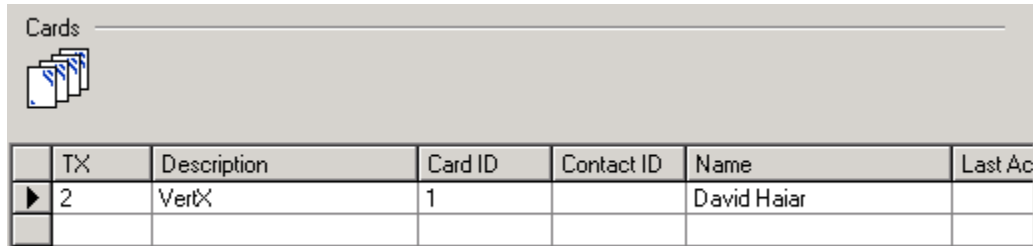
Card Number: _____ Transmitter: _____
Card Set: _____ Card ID: _____
Access Type: _____ PIN: _____
Reuse time: _____ Escort Card: _____
Access Levels: _____
Elevator In-Sched Group: _____
Elevator Out-Sched Group: _____
 Pin Cmds Allowed Extended Access
 Passback Allowed

Access Card Lookup

Raw Hex Number

Once cards have been entered into the Contact List, the card information will automatically

show up in the Cards section of the Access Control system:

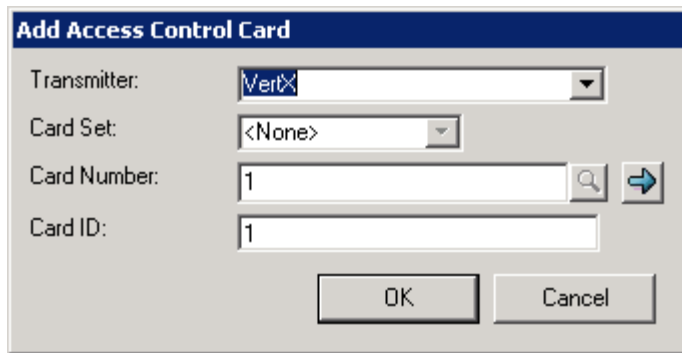


	TX	Description	Card ID	Contact ID	Name	Last Ac
▶	2	VertX	1		David Haiar	

Users can double-click on a card to bring up the Access Control Cards tab in the Contact List. From there, information can be edited and saved.

Add a Card

1. Once the basic Access Control system and transmitter have been added, select Contact List from the Jump To list.
2. Select the appropriate contact from the Contacts tree.
3. Click on the Access Control Cards tab to open the form.
4. Click on the Add button to bring up the Add Access Control Card box:



Add Access Control Card

Transmitter: VertX

Card Set: <None>

Card Number: 1

Card ID: 1

OK Cancel

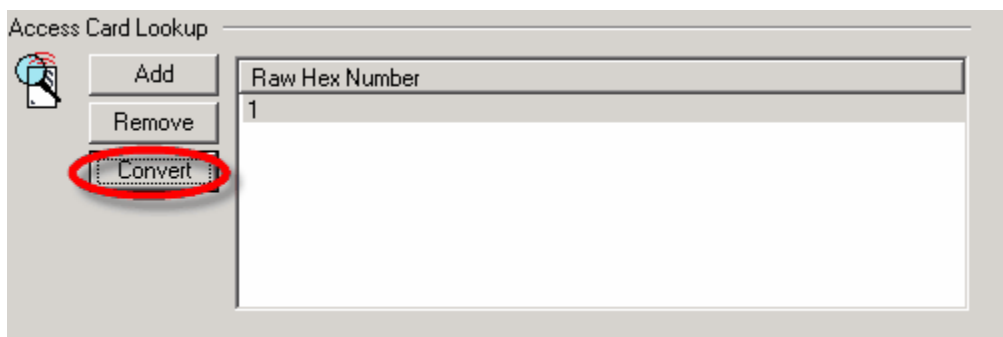
5. Select the Transmitter from the drop-down menu if it has not already been selected.
6. Select the Card Set from the drop-down menu.
7. Enter the Card Number and Card ID. These two numbers must match.
8. Click OK
9. Back at the main form, enter the PIN number associated with the card if applicable. A PIN code of "0" (zero) means there is no PIN code associated with the card.
10. Select the Access Type from the drop-down menu. This is the type of access granted by the

card.

11. Select the Escort Card associated with the card if applicable.
12. Enter the Reuse Time. This is the time in minutes before an alarm is generated.
13. Select the Access Levels, if any, that the card belongs to. There may be a maximum of eight access levels that assign and limit access.
14. Select the Elevator In-Sched Group from the drop-down list if the card belongs to a schedule within an elevator group.
15. Select the Elevator Out-Sched Group from the drop-down list. This is an elevator group that the card belongs to when out of a schedule, such as after hours.
16. Check the Pin Cmds Allowed box if the card holder is allowed to implement PIN commands.
17. Check the Extended Access box if extended access is on, such as longer grant access time for a physically handicapped person.
18. Check the Passback Allowed box if the card should be exempt from anti-passback.
19. When finished, click Save.

Access Card Lookup

Users may add a card list of un-decoded cards in raw hex value only. From this form, users can also convert a raw hex number into a card by clicking on the Convert button. Once the Convert box appears, change the Card Number and Card ID to the appropriate values.



Reminders

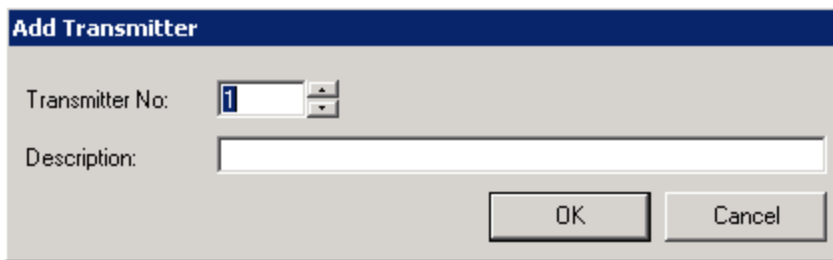
Please see the Reminders topic for further information.

GPS

Transmitters

The **Transmitters** form allows Operators to install and customize Transmitters for a specific Customer account. Prior to saving a new Customer account, Operators must enter a minimum of one Transmitter.

1. If the screen is not currently in Edit mode, click on the Edit button.
2. Select Transmitters from the GPS tree.
3. Click on the Add button. An Add Transmitter box will appear:



The screenshot shows a dialog box titled "Add Transmitter". It has a light gray background and a dark blue title bar. The dialog contains two input fields: "Transmitter No:" with a text box containing the number "1" and a small drop-down arrow to its right, and "Description:" with an empty text box. At the bottom right of the dialog are two buttons: "OK" and "Cancel".

4. If the Transmitter number is other than the default (1), use the drop-down arrow to enter the Transmitter Number into the Transmitter No: field.
5. Enter a brief description of the Transmitter into the Description field.
6. Click OK to return to the Transmitter form.

Transmitter

Transmitter No: 3

Description: GPS

Transmitter Type: GPS All

Receiver Line Prefix: 00 Caller ID 1:

Transmitter ID: Caller ID 2:

TX Protocol Type: Remote Address:

Transmitter Dates

Path-Enabled Date:

Connect Date:

Termination Date:

Options

<input type="checkbox"/> Generate Restore Overdues	<input type="checkbox"/> Audio Capable
<input type="checkbox"/> Any Activity Satisfies Test	<input type="checkbox"/> Video Capable
<input type="checkbox"/> Extended Signaling	<input type="checkbox"/> Raw Event Programming
<input type="checkbox"/> Do not use Dealer Programming	<input type="checkbox"/> Monitored Transmission Path
<input type="checkbox"/> Generate L-T-T Only When Closed	<input type="checkbox"/> Backup Transmitter
<input type="checkbox"/> Regular Activity Expected	

Transmitter Test

Interval:


Notes

7. Select the Transmitter Type from the drop-down menu.
8. Click the drop-down box to the right of the Receiver Line Prefix field. Select the appropriate value from the list. This is the line number that will appear in signals and alarms within Manitou, allowing the Operator to track details about a particular alarm or signal.
9. Enter the Transmitter ID.
10. Select the Transmitter Protocol Type from the TX Protocol Type drop-down menu. For more information on Transmitter Protocol Types, see the Supervisor Workstation Manual section *Maintenance: Setup: Transmitter Protocol Type*.
11. In the Transmitter Dates section, click in the Path-Enabled Date field, and click on the drop-down arrow to the right of the field.
12. Select a date from the calendar.

13. Select a Connect Date and a Termination Date if applicable. The Operator may choose to leave the Termination Date field blank.
14. Under the Options section, check Generate Restore Overdues.
15. Check Extended Signaling if applicable.
16. Check Do not use Dealer Programming if applicable.
17. Check Generate L-T-T Only When Closed if applicable.
18. Check Raw Event Programming if applicable.
19. Check Monitored Transmission Path if applicable.
20. If Transmitter Test is needed, click or tab into the Interval field and enter the interval number or use the up/down arrows to the right of the field. **Adding a Transmitter Test on the Transmitters form will automatically add the service to the Services form.**
21. Tab or click into the Remote Address field and enter the Remote Address information (non-required field).
22. If the account has more than one more Transmitter, click Add and repeat the above steps for all additional Transmitters.
23. Click Save.


Programming

In order to guarantee proper signal processing, **Programming** is required for every system. Programming defines and decodes information received from the transmitters through the receivers. For instance, a transmitter may send a generic message that an alarm sounded in a specific area or zone. The receiver passes this message on to the application. However, the system is unable to decipher what activation in the area/zone means without the proper programming. The programming then exists to translate the activation on that area/zone to a burglary, fire, or other alarm. Programming will also allow for the definition of specific actions to complete on the alarm, such as call police and then Keyholder on the account.

Transmitter Programming 

Show merged Transmitter Programming for Transmitter:

	Input			Output			Commands
	TX	DES	Zone	Event	Description	Track ID	
*							

Event Actions Programming 

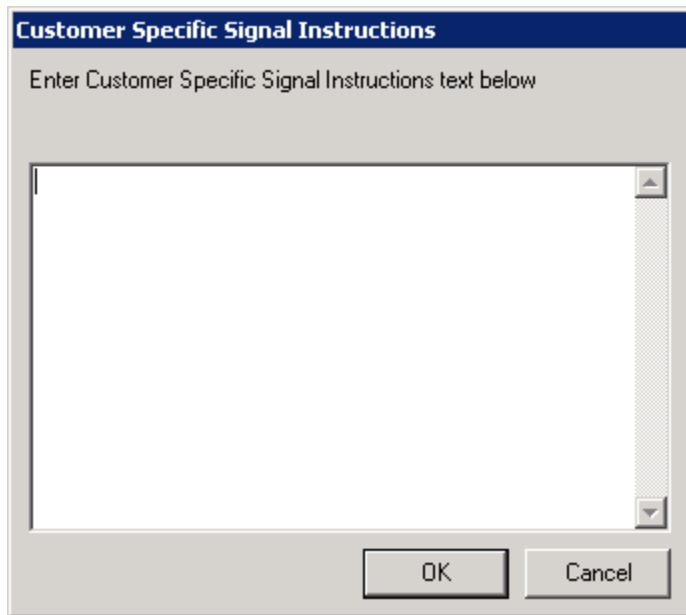
	Event	TX	Track ID	Alarm	Actions	Instructions
*						

1. Open the Programming form by clicking on Programming button in the Systems list.
2. Click on the Edit button to put the screen into Edit mode. A blank line will appear in the Transmitter Programming form.
3. Click into the empty cell under the TX cell. A drop-down arrow will appear.
4. Click on the drop-down arrow and select the Transmitter from the drop-down menu.
5. Tab into the DES (Description) cell and click on the drop-down arrow.
6. Select a description of the incoming item. For example, if this is a Burglary Verified, select BV from the list.
7. Tab into the Area cell and click on the drop-down arrow.
8. Select an area if applicable.
9. Tab into the Zone cell and click on the drop-down arrow.
10. Select a Zone if applicable.
11. Tab into the Sensor cell and click on the drop-down arrow.
12. Select a Sensor if applicable.

13. Tab into the Event cell and click on the drop-down arrow.
14. Select an Event from the list if applicable.
15. Enter a brief description into the Description cell of the Event.
16. Enter the Area, Zone and Sensor if appropriate.
17. Enter a Point ID (a description of the area) if appropriate.
18. Click Save.

Event Actions Programming

1. Click in the Event cell and select an event from the drop-down list.
2. Tab into the TX (Transmitter) cell and select a TX from the drop-down menu.
3. In the Track ID area, enter the Asset Tracking ID if applicable.
4. In the Area and Zone cells, select an Area and Zone from the drop-down menu.
5. In the Alarm cell, select Yes, No or Default from the drop-down menu. Selecting yes will sound an alarm every time the parameters are met. Selecting No will not sound an alarm when the parameters are met. Selecting Default will set the system to execute its programming based on the parameters.
6. In the Actions cell, select an Action if appropriate.
7. In the Instructions cell, click on the ellipses button to bring up the Customer Specific Signal Instructions box:



8. Enter any specific instructions pertaining to the Customer. The instructions entered here will appear on the Notes tab of the Alarm Handling screen.
9. Click OK.
10. Once finished, review all items for accuracy.
11. Click Save.

Asset Tracking

Asset Tracking provides individuals or an asset, such as an armored vehicle, the ability to check-in on a regular basis with the monitoring company. Check-in signals can include GPS information so that the individual or asset's movement can be plotted on a map.

Check-in


The Check-in function allows the Central Station to provide a service for periodic or scheduled check-ins by an individual or asset. Check-ins can occur through a variety of ways, such as a cell phone. For example, an individual may call into the Voice Response module of the Bold MediaGateway to perform their check-in by navigating through the MediaGateway's menus and providing identifying information that satisfies certain parameters set up by the customer. When available, the cell phone may also provide GPS coordinates in order to plot the location onto a map. The MediaGateway would then submit a signal into the core Manitou system to complete the operation.

Most users will utilize the check-in functionality through the use of a schedule or on an ad-hoc basis. If using schedules, it will define the days and times the check-in service is active as well as the interval in which check-in signals are expected. On an ad-hoc basis, however, the individual will initiate contact by delivering a "Start Check-in" signal. Ad-hoc tracking still requires a proper tracking entry for the individual or asset with an appropriate General

Schedule. Manitou will continue to provide the service until a "Stop Check-in" signal is received.

Tracking Entries


Tracking entries are added in the customer Systems form through the GPS system. The Asset Tracking form displays the customers tracking grid for the system:

Asset Tracking 

	Configuration						Status	
	ID	Ad Hoc	Name/Descriptic	Linked to	Schedule	Interval	Last Status	Last Location
*		<input type="checkbox"/>		<input type="checkbox"/>				

The Asset Tracking grid is broken down into four sections: Configuration, Status, Current Check-in Cycle and Next Check-in Cycle. Please note that if a system monitoring type's asset tracking limit is set to zero, the asset tracking form will not display for the system. Monitoring Types may be configured in the Supervisor Workstation.

Configuration

	Configuration						
	ID	Ad Hoc	Name/Description	Linked to Contact	Schedule	Interval	
	1	<input type="checkbox"/>	Bonnie Bird	<input type="checkbox"/>	GEN	60	
*		<input type="checkbox"/>		<input type="checkbox"/>			

- **ID** - This is the unique identifier within the system and is defined by the user. For example, the numbers 1, 2 and 3 may be used to identify the asset that is currently being tracked.
- **Ad Hoc** - Checking this box will indicate that the check-in will occur on an ad-hoc basis. Please note that a general schedule is still required for ad-hoc entries.
- **Name/Description** - This field contains the individual's name or a description of the asset, such as "Wells Fargo Truck."
- **Linked to** - This is a read-only field that marks whether or not the entered contact name is linked to a contact.
- **Schedule** - This field is used to add a schedule to the asset tracking in which the check-in must occur. These schedules are set up in the General Schedules form.
- **Interval** - The interval field sets the minutes between check-ins. This value is pre-populated

to the general schedule interval values when a general schedule is assigned to the asset. However, users can change the value for intervals if needed. Intervals may not be less than five minutes.

Status

Status	
Last Status	Last Location

- **Last Status** - This read-only field displays the current tracking status and are used to determine if a late-to-check-in has occurred.
- **Last Location** - This field displays the last GPS coordinates received for an active tracking entry. The field will be cleared when the tracking status is changed to "stopped."

Current Check-in Cycle

Current Check-In Cycle	
Check-In Late	Cycle End

- **Check-in Late** - This field indicates the end date and time for the current expected check-in signal window.
- **Cycle End** - This field displays when the current tracking cycle will end. If the asset tracking record is not ad-hoc, users may adjust this value to end a tracking session early or to extend it later. For example, if a schedule protecting an individual ends at 17:00, the person can notify the monitoring company that they need to be monitored until 21:00.

Next Check-in Cycle

Next Check-In Cycle		
Check-In Start	Check-In Late	Cycle End

The Next Check-in Cycle items allow an Operator to modify the next check-in cycle manually. Unless an Operator manually uses the Next Check-in Cycle items, they will be left blank. Ad-hoc configurations cannot make use of the Next-Check-in Cycle options.

- **Check-in Start** - This is the start date and time for the next expected check-in signal window.
- **Check-in Late** - This field indicates the end date and time for the next expected check-in signal window.
- **Cycle End** - This field displays when the next tracking cycle will end. This allows the user to adjust the next tracking cycle if it is not ad-hoc. For example, if a schedule specifies 08:00-17:00 M-F and on Friday, the contact notifies the monitoring company that they will work from 08:00-17:00 on Saturday and need tracking, the monitoring company can make the necessary changes.

Users may delete tracking entries by highlighting the asset row and pressing the delete button.

Transmitter Programming

Transmitter programming for Asset Tracking is found in the Track ID column. This column links each line of programming to a matching asset entry. GPS programming lines that omit the Track ID are not associated with tracking functionality, even if it is a tracking event code (or includes soft programming attributes).

Input			Output			
TX	DES ▲	Zone	Event	Description	Track ID	Point ID
*	*CN	*	*CH	Check-In	1	
*						

General Schedules

Manitou utilizes General Schedules as the schedule for check-in services. The schedule is created like other General Schedules, but users must select "Check-in" from the Type drop down menu:

Add Schedule

Schedule: GEN


Description: General Check in Schedule

Type: Check-In

- Description
- Keyholder Availability
- Programming
- Check-In
- Reminder
- Call List Availability

From there, enter the appropriate schedule parameters and set the Check-in Interval (in minutes):

General Schedules



Schedule:

Description:

Type: Check-In Interval:

General Schedules													
	Week							Time				Date	
	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Start 1	End 1	Start 2	End 2	From	To
▶	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	08:00	17:00	17:01	17:30	05/10/2009	05/10/2010

The Start1/End1 columns in the schedule establish both the start time and the window in which a check-in can occur. For example, setting a Start1/End1 combination of 09:00 and 09:10 both sets the start time at 09:00 and establishes a check-in window of 10 minutes, allowing check-ins between 09:00 and 09:10. Outside that window, check-ins will be unexpected. Depending on the interval, the current check-in cycle's check-in window will be the previous check-in window plus the interval. Generally, the window should be smaller than the interval, otherwise the check-in and check-in late behavior will not be correct. A possible side effect of a larger window will cause the next check-in to be progressively pushed out until it hits the end of the window. If this occurs, unexpected check-ins will not occur until the check-in is pushed out as far as it can be pushed. With an interval of 60 minutes and a Start1/End1 combination of 09:00 and 09:10, a check-in occurring between 9:00 and 9:10 will cause the subsequent check-in window to start at 10:00 (not displayed in the client, though) and the check-in late to be 10:10.

The Start 2/End 3 columns govern the window in which the final check-in will occur.

Contact List

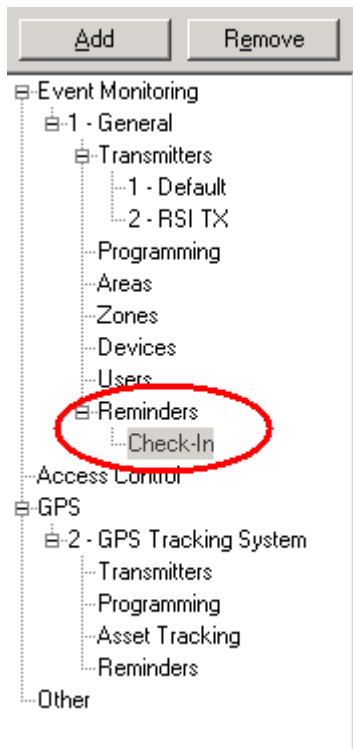
Removing persons from the contact list will also remove any asset tracking entries that are linked to the individual. When a user removes a tracking entry, the Manitou client removes all transmitter and event programming for that tracking ID.

Reminders

Reminders provide a way for the monitoring company to perform one time or periodic actions/checks as a service to their customers. The Overdue Checker picks up reminders that are due and generate an internal message to create an alarm for the reminder. Each reminder must specify a standard alarm code, which the Signal Handler uses to assign an appropriate action pattern. The reminder may include help text (notes) attached to the alarm for the Operator's use. Users must have a Reminder Service set up in the Monitoring Types form in order for the reminders option to perform properly.

Reminders are added through Event Programming, Access Control or GPS systems, and

individual reminders appear underneath a reminder's parent node:



When adding a Reminder, select the event from the event codes list, and a pre-defined description will appear:

The screenshot shows a dialog box titled 'Add Reminder'. It has two input fields: 'Event' and 'Description'. The 'Event' field is a dropdown menu with 'FCH' selected. The 'Description' field is a text box containing 'Check-In'. At the bottom of the dialog are two buttons: 'OK' and 'Cancel'.

The description field (limited to 20 characters) may be edited if needed. Click OK, and the main Reminders form will appear:

Reminder

Event: *CH
Description: Check-In
Area:
Zone:
Point ID:

Frequency

Schedule:
Next Reminder (Not Randomized): 01/01/1900 00:00
 Randomize
Start Minus: 0 End Plus: 0
Interval Minus: 0 Interval Plus: 0
Interval: 1 Hours
Count: Limited 0
Expiration: 01/01/1900 00:00 Auto Purge

Notes

- **Event** - This is the standard alarm event code for the generated reminder alarm, and allows event programming to assign an action pattern.
- **Description** - A text description of the reminder.
- **Area** - This is the area of where the reminder is occurring. Area is used for event type systems only.
- **Zone/Asset** - Apply a Zone or Asset Tracking ID to the reminder if applicable. This is dependent on system type.
- **Point ID** - This field is the location description.

- **Schedule** - Select a general schedule to attach to the reminder.
- **Next Reminder** - Set the next date and time of the reminder alarm to occur.
- **Randomize** - Checking the randomize box will randomize the intervals, which will render them unpredictable. For example, if a schedule is set to record video footage every half hour between 11 a.m. and 2 p.m., the randomize button will randomly assign a buffer time based on calculations to record the footage. Therefore, the video will record at random times inside of the schedule.
- **Start Minus** - This is the number of minutes preceding the beginning of the schedule window where the first reminder will occur.
- **Interval Minus** - This is the number of minutes preceding the next reminder within a schedule window where the reminder may occur.
- **End Plus** - This is the number of minutes past the end of the schedule window where the last reminder may occur.
- **Interval Plus** - This is the number of minutes past the next reminder within a schedule window where the reminder may occur.
- **Interval** - Select the number of minutes, hours or days between reminders.
- **Count** - This field indicates the number of reminders to generate.
- **Expiration** - This is the expiration date of the reminder.
- **Auto Purge** - Checking this box will indicate that the Overdue Checker should automatically purge the reminder when it is expired or the number of occurrences is complete.
- **Notes** - Use this field to enter any helpful notes or comments. These comments will be attached to the alarm through the transmitter programming notes mechanism. Note that if the event created by the reminder matches a line of transmitter programming with notes, the transmitter programming notes will take precedence.

General Schedule

Manitou utilizes General Schedules as the schedule for reminder services. The schedule is created like other General Schedules, but users must select "Reminder" from the Type drop down menu:

Add Schedule

Schedule: REM

Description: Reminder

Type:
 Description
 Keyholder Availability
 Programming
 Check-In
 Reminder
 Call List Availability

From there, enter the appropriate schedule parameters.

General Schedules

Schedule: REM

Description: Reminder

Type: Reminder

	Week							Time				Date	
	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Start 1	End 1	Start 2	End 2	From	To
*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						

Other

The **Other** system is a catch-all to give Monitoring Companies a way to include other types of systems that don't fall into Event Monitoring, Access Control, or GPS categories. By creating an "other" system, users can tie it to a monitoring service which the central station can automate billing for through accounting integration.

Services

The **Services** window lists all Monitoring Services applicable to the Customer. These services may be Video monitoring, Alarms only, or Reports.

The screenshot shows a software interface for configuring monitoring services. It includes a list area on the left with 'Add' and 'Remove' buttons. The main configuration area is divided into three sections: 'Monitoring Services' (with a 'Monitoring Service' dropdown and a 'Description' text box), 'Active Date Range' (with 'Start' and 'End' dropdowns), and 'Administration' (with a 'Chargeable' checkbox and a 'Charge Code' text box). An 'Add Monitoring Service' dialog box is open, showing a 'Monitoring Service' dropdown set to 'Standard' and an empty 'Area' dropdown. 'OK' and 'Cancel' buttons are at the bottom right of the dialog.

1. Select the Services form from the Jump To menu.
2. Click on the Add button to add a Service. An Add Monitoring Service window will appear.
3. Select the drop-down arrow to the right of the Monitoring Service field and select a service from the list.
4. If an Area is applicable, select the Area from the Area drop-down list. Areas are defined in the Zones and Areas list and will need to be set up prior to adding a Service. To see how to set up a Zone and Area, see the Maintenance: Zones and Areas section of this manual.
5. Click OK.

Note: An item can be marked or unmarked as "Chargeable" based on a permissions setting in the Supervisor Workstation. Please see the Supervisor Workstation documentation for Maintenance > Setup > Permissions for further instructions on permissions settings.

6. If this account service has a specific valid date range; click the drop-down arrow to the right of the Start date and select the date from the calendar. Repeat this process for the End date. If the end date is not known, this field may remain blank.
7. If this service is a fee-based service and the customer should be charged for the service,

click the Chargeable checkbox.

8. Enter the Charge Code within the Code field. The Central Station administrator should know the Charge Codes.
9. Review the items for accuracy and click Save.

O/C Schedules

Scheduling can be very important to some customer accounts. In order to best create the customer schedule it is important to know what the customer wants. If the customer wants to not allow entry outside of the particular scheduled hours the Must statements are very important. Alternatively, if a customer doesn't care about when their staff opens or closes, after their opening/closing times, the location, changing the Must statements to No Activity will ease processing. Below are some suggestions and rules for proper scheduling.

Determine what the customer needs are for the account:

- Does the customer require that they are notified whenever an unexpected or unscheduled opening occurs?
- Does the customer need to receive a call at each opening and/or closing?
- Does the customer only want to know if the business is closed early or late?

When a customer wants their schedule monitored and expects notification when there is a violation of the schedule the following items should be entered:

- On the Services form of the Customer record the Service Open/Close and the qualifier Monitor is required.
- When entering the schedule within the Schedules section of the customer record, ensure that there is a Must Open and a Must Close with specific times.

Permanent Schedule

The **Permanent Schedules** tab contains the default schedule information for a customer. This is a customer-specific open/close schedule and is the default schedule the system uses when no other schedules apply for the customer record. In other words, this is the day-to-day schedule used by the customer site.

O/C Schedules

Window Code:

Schedule:

Description:

Main Open/Close Schedule			
Day	Time	Action	
▶ Mon	08:00	May Open/Close	
Mon	17:00	Must Close	
Tue	08:00	May Open/Close	
Tue	17:00	Must Close	
Wed	08:00	May Open/Close	
Wed	17:00	Must Close	
Thu	08:00	May Open/Close	
Thu	17:00	Must Close	
Fri	08:00	May Open/Close	
Fri	17:00	Must Close	

Monday

- 08:00 - May Open/Close
- 17:00 - Must Close

 Tuesday

- 08:00 - May Open/Close
- 17:00 - Must Close

 Wednesday

- 08:00 - May Open/Close
- 17:00 - Must Close

 Thursday

- 08:00 - May Open/Close
- 17:00 - Must Close

 Friday

- 08:00 - May Open/Close
- 17:00 - Must Close

 Saturday

- Sunday

Services

1. Before beginning, an Open/Close schedule must be added in the Services form for the customer.
2. Select the Services form from the Jump To menu.
3. Click on the Add button to add a Service. An Add Monitoring Service window will appear.
4. Select the drop-down arrow to the right of the Monitoring Service field.
5. Select the Open/Close from the list.
6. If an Area is applicable, select the Area from the Area drop-down list. Areas are defined in the Zones and Areas list and will need to be set up prior to adding a Service. To see how to set up a Zone and Area, see the Maintenance: Zones and Areas section of this manual.
7. Click OK.
8. If this service has a specific valid date range; click the drop-down arrow to the right of the Start date and select the date from the calendar. Repeat this process for the End date. If the end date is not known, this field may remain blank.
9. If this service is a fee-based service and the customer should be charged for the service,

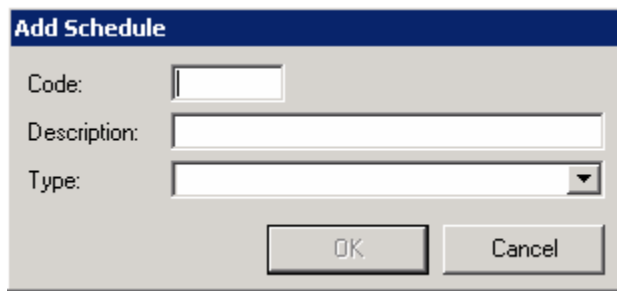
click the Chargeable checkbox.

10. Enter the Charge Code within the Code field. The Central Station administrator should know the Charge Codes.

11. Review the items for accuracy and click Save. The Permanent Schedules form will now be available.

Permanent Schedules

1. Click on the O/C Schedule button in the Jump To list.
2. Select the Permanent Schedule tab.
3. Click the Add button to bring up the Add Schedule window:



4. Enter a Schedule code. This code is limited to 4 characters.
5. Enter a brief Description in the Description field.
6. Select the Type of the Schedule from the Type drop-down menu.
7. Click OK.
8. Check the days of the week this schedule will apply to.
9. Click in the Start 1 cell and enter the first open time. This number should be in 24-hour time.
10. Tab into the End 1 cell and enter the first close time. This number should be in 24-hour time.
11. Repeat the above process for additional open and close times.
12. Click Save.

Alternate Schedule

The **Alternate Schedule** tab allows a schedule for a specific date (or dates) to override the

Permanent Schedule. For example, some businesses are closed the last week of the year. Instead of changing the Permanent Schedule for one vacation week, the company might simply use the Alternate Schedule to define the alteration of Open/Close hours for that week.

O/C Schedules

Window Code:

Schedule:

From Date:

Description:

To Date:

Alternate Open/Close Schedule

Day	Time	Action
-----	------	--------

- Monday
- Tuesday
- Wednesday
- Thursday
- Friday
- Saturday
- Sunday

1. Click on the O/C Schedule button in the Jump To list.
2. Select the Alternate Schedule tab.
3. Click the Add button to bring up the Add Schedule window:

Add Schedule

Code:

Description:

Type:

4. Enter a Schedule code. This code is limited to 4 characters.
5. Enter a brief Description in the Description field.

6. Select the Type of the Schedule from the Type drop-down menu.
7. Click OK.
8. Check the days of the week this schedule will apply to.
9. Click in the Start 1 cell and enter the first open time. This number should be in 24-hour time.
10. Tab into the End 1 cell and enter the first close time. This number should be in 24-hour time.
11. Repeat the above process for additional open and close times.
12. Click Save.

Holiday Schedule

The **Holiday schedule** allows the entry of all observed holidays for a particular premises or business. All Holidays are entered globally through the Global Holidays form.

O/C Schedules

Window Code:

Schedule:

Description:

Customer/System Holidays Open/Close Schedule			
Date	Holiday	Time	Action
	Monday		<input checked="" type="checkbox"/>
	Tuesday		<input checked="" type="checkbox"/>
	Wednesday		<input checked="" type="checkbox"/>
	Thursday		<input checked="" type="checkbox"/>
	Friday		<input checked="" type="checkbox"/>
	Saturday		<input checked="" type="checkbox"/>
	Sunday		<input checked="" type="checkbox"/>

1. Click or Tab into the Date cell then click the drop-down arrow to the right and select the holiday to enter.
2. Tab into the Time cell and enter the opening or closing time for the holiday. If the

business/location is closed on the holiday enter "00:00" for midnight.

3. Tab into the Action field then click the drop-down arrow to select an Action from the list. If the business/location is closed on the holiday, select "No Activity." If the Operator selects Open Window or Close Window the Open/Close times will calculate based on the Schedule Window Code selected for the account.
4. Repeat the above steps for all holidays.

Temporary Schedule

A **Temporary Schedule** will replace a customer's normal Open/Close schedule with a different, temporary schedule that is effective for a specified time period. This is particularly useful during holidays or shutdown periods for customers.

A normal Open/Close schedule must have been configured for the customer prior to setting up a temporary schedule. To configure a normal Open/Close schedule, please see the Maintenance: O/C Schedules portion of this manual.

The screenshot shows a software interface for configuring a temporary schedule. It is divided into several sections:

- Customer:** Includes a search icon and input fields for "Customer ID:" and "Name:".
- Schedules:** Includes a search icon and input fields for "Schedule:" (a dropdown menu), "Description:", "Window Code:" (a dropdown menu), and "Temporary Date:" (a date picker showing 06/25/2007).
- Temporary Schedule Table:** A table with columns "Day", "Time", and "Action". The table is currently empty.
- Day Selection List:** A list of days from Monday to Sunday, each with a small icon and a dropdown arrow, indicating they can be selected for the temporary schedule.

The Temporary Schedule form is split into three areas: customer, the name of the temporary schedule, and the relevant day and time of the schedule.

1. Load the customer information by entering the Customer ID or by selecting the search tool and loading the customer into the Customer ID form.
2. Once the customer is loaded, any Open/Close schedules associated with the customer will appear in the Schedule drop-down menu.
3. Click on the Edit button to put the screen into edit mode.
4. Validate the customer's password.
5. Select the appropriate schedule from the Schedule drop-down menu.
6. Enter the date of the temporary schedule. The default date is the current date. Only one date may be selected at a time.
7. In the Temporary Schedule window, adjust the time or action for the Temporary Schedule.
8. If the Temporary Schedule should apply to more than one date, select the date from the Temporary Date drop-down menu and make necessary changes to the Temporary Schedule.
9. Click Save.

Modify or Delete a Temporary Schedule

1. Load the customer record by entering the Customer ID or searching for the customer ID using the search function.
2. Click on the Edit button.
3. Enter the date of the Temporary Schedule that should be edited or deleted.
4. To edit the schedule, click in the relevant fields of the Temporary Schedule table and edit or add rows as necessary.
5. To delete a row, click next to the row to be deleted:

Temporary Schedule			
	Day	Time	Action
	Mon	08:00	May Open/Close
	Mon	17:00	Must Close
*			

- The row will be highlighted. Press the delete key on the keyboard.
- Confirm the delete.
- Continue deleting necessary rows. Once the temporary schedule has been deleted, the permanent schedule will appear.
- Click Save to save all changes.

Window Codes

Window Codes are set up in the Supervisor Workstation and are used to add a specific amount of time to allow a schedule more flexibility. For example, a customer may wish to allow a five minute "buffer" to the schedule to allow for an early open or a late close. Thus, the window code would allow an open to occur anywhere between 7:55 a.m. and 8:05 a.m.

In the example below, before and after times have been set to 15 minutes and given the description of "Plus or Minus 15 Minutes." First, the code is added to the Supervisor Workstation:

View	New	Edit	Delete	Save
<input type="button" value="Add"/> <input type="button" value="Remove"/>	Schedule Window Codes			
15 - Plus or Minus 15	<input type="button" value="Add"/>	Window Code: 15 Description: Plus or Minus 15		
	Details			
	Number of minutes before:	15		
	Number of minutes after:	15		

Users can create a schedule using a Window Code in the Client Workstation. The example below uses a Window Code of five minutes (plus or minus). Using the Window Code, the generated schedule shows the may/must open and close times five minutes before or after the hour. The hours of 0800 and 1700 are defaults that pre-fill the form and can be changed if necessary while preserving the window code.

The window code can also be used without the schedule wizard. On the data entry screen, the plus or minus 15 minutes window is selected. When the Day and Time have been entered and the "open window" option is selected for the Action column, the screen will appear as follows:

Day	Time	Action
Mon	08:00	May Open
Mon	08:15	Must Open
Mon	16:45	May Close
Mon	17:00	Must Close
Tue	08:00	Open Window

The end result is that the window has been applied to the time in the previous screenshot, plus or minus fifteen minutes.

Contact List

Contact Lists are used to provide detailed information about Keyholders, Dealers, Agencies, Branches Authorities and Customers that relate to a particular customer account.

The Contact List is divided into four Tabs: Contact Tab, the User ID Tab, Contact Details Tab, and Notes Tab.

- The Contact Tab, which is the default tab, displays general information regarding the Contact, such as the Type of contact (e.g. Keyholder), job title, Access, passwords, and the date the contact is valid.
- The User ID Tab provides access to many areas with the same or different panel user IDs for contacts.
- The Contact Details Tab includes all contact information (phone numbers, e-mail address and street address).
- The Notes Tab provides any special notes pertaining to that particular Contact.
- If Access Control is enabled, the Access Cards Tab will appear, providing access to many areas with the same of different panel user IDs.

Contacts

Contacts Tab

1. Select Contacts from the Contact List navigator.
2. Click on the Add button located above the Contact List. An Add Keyholder box will appear:

Add Keyholder

Keyholder Global Keyholder


Name:

Country:

Language:

Time Zone:

Contact

 Site

Home

Business

Mobile

OK Cancel

Keyholder

1. If the contact is a Keyholder, select Keyholder.
2. Enter the name of the Contact into the Name field.
3. Select the Country, Language and Time Zone for the Keyholder.
4. Enter the Contact phone numbers into the appropriate fields (Site, Home, Business or Mobile).
5. Click on the Notepad next to the number fields to enter any phone extensions or Scripts.
6. Click OK.

Global Keyholder

1. If the Contact is a Global Keyholder, select Global Keyholder instead of Keyholder.
2. Enter the Contact ID (Customer ID) into the Contact ID field or click on the eyeglass search button to locate the correct Contact ID number.
3. The name of the Contact ID should auto-fill upon entry of the Contact ID.
4. Click OK.

Note: If the Keyholder is Global, much of the information on the following screens will not be editable, since the Keyholder's record is already entered into Manitou.

Once the keyholder has been added, users will return to the main contact details form:

Contact Details Form

Contact

Contact ID: _____

Name: _____

Type: _____

Title: _____ Suffix: _____

Job Title: _____

Birthday: _____ Suppress

Access

- Permissions Suspended
- Can Open/Close Within Schedule
- Can Open/Close Within Temp Open Window
- Can Open/Close Anytime
- Can Cancel Alarm
- Can Authorize a Schedule Change
- Can Put Entire Customer On Test
- Can Put Designated System/Areas On Test
- Can Edit Customer

Passwords

Password: _____ VRT ID: _____

Web Access ID: _____ Max Test Time: 0 _____

Web Profile: _____ Temp Open Time: 0 _____

Availability

Valid From: _____ To: _____

Inactive From: _____ To: _____

Contact

1. If the Keyholder is addressed by a Title, use the drop-down menu to select a Title from the list.
2. If the Keyholder has a Suffix with their name, use the drop-down menu to select a Suffix from the list.
3. Enter a Job Title, if necessary, for the Keyholder.
4. Enter a Birthday for the Keyholder if necessary.
5. To associate a photo with this Keyholder's record, right-click within the gray portion of the picture frame to the right of the name fields.
6. Click Find.

7. Browse to the image file (.jpeg or .gif) on the computer and open the file.
8. Check the Suppress checkbox if the contact should be prevented from showing up in the contact list tree in the call list, action pattern, alarm and report destinations forms. This field is defaulted to a checked box when the contact has no contact points.

Access

1. Use the checkboxes to indicate the Keyholder's access levels. Note that there are some items that are mutually exclusive of one another. If both items are selected, an error will appear.

Passwords

1. If the Customer wishes each Keyholder to have a unique password, click on the Password field and enter the password.
2. Enter a Web Access ID and select a Web Profile from the drop-down menu. Please note, these fields will not appear if BoldNet is not licensed and installed.
3. Enter a VRT ID if this contact will log in via VRT. Please note, this field will not appear if VRT is not licensed.
4. If the password is associated with a specific Area, select the Area from the drop-down menu.

Max Test Time

By default, Max Test Time is grayed out. However, if a password is entered along with a VRT ID or Web ID, then the field becomes available. This is the maximum test time, in minutes, that this contact may put the account on test.

Availability

1. Enter a Valid From date to indicate when this Keyholder will be a valid contact.
2. If applicable, enter a Valid To date to indicate when the Keyholder will become an invalid contact.
3. If the Keyholder will be inactive during a certain date, enter the date into the Inactive from and Inactive To fields.

A Note About Birthdays

In the birthday field, the year selection cannot be moved below the year 2000. This is because

it is technically a birth *day* and not "birthdate," meaning only the month and day.

User ID Tab

Contacts can be given access to many areas with the same or different panel user IDs. This information is entered in the Details Tab for the contact which, when data is entered, shows a grid filled with all of the event systems and their areas. An entire system can be selected (with or without a panel user ID) or individual areas of the system can be selected (each with or without a panel user ID) or individual areas of the system can be selected (each with or without a panel user id).

Note: Details for a user may only be given once a system is first set up in the Systems tab. For more information on setting up a system, see the Maintenance Menu: Systems section of this manual.

Once a system has been added, check the Allow box to allow the contact access to the system. A unique User ID may also be entered into the User ID field:



Contact Details

1. Click on the House icon (Contact Information Tab) to the right of the Contacts form to display the Contact Information screen.
2. Enter the Site phone number for the Contact. If the Site phone number is not the primary number to call for this Contact, use the down arrow to the right of the number title to select the correct type for the first number to call, such as cell or business phone.
3. To enter additional details, click on the notepad icon to the left of the phone number field. A Contact Point Properties window will appear:

Contact Point Properties

Site: (719) 123-4567

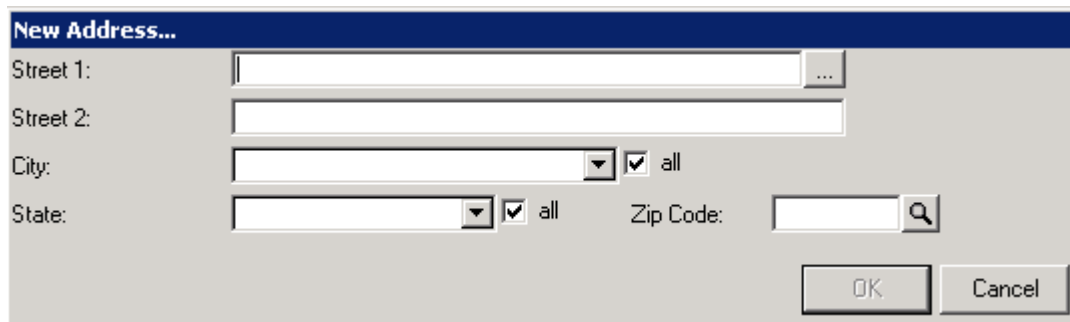
Extension:

Script:

OK Cancel

4. Select Properties.

5. Enter an extension if applicable.
6. If a script is associated with this phone number (applicable in the case of numeric PIN numbers or codes), select the script from the drop-down menu.
7. Click OK to return to the Details window.
8. Enter an E-mail address for the Contact if applicable.
9. Enter a Web address if applicable. Manitou will automatically fill in the text after the @ symbol if an E-mail address is previously entered. If there is no Web address, highlight the text and delete it from the text field.
10. In the Address portion, check the Mailing Address box if this address should be used for mailing purposes.
11. Click on the arrow next to the Home field to select if the address is the Home, Work, or Mailing address for the Contact.
12. Enter the Contact's address into the address fields, beginning with the street number and street name. Once the Operator begins typing, a New Address form will appear:



The image shows a dialog box titled "New Address...". It contains the following fields and controls:

- Street 1: A text input field with a search icon (magnifying glass) to its right.
- Street 2: A text input field.
- City: A text input field with a dropdown arrow to its right and a checked checkbox labeled "all".
- State: A text input field with a dropdown arrow to its right and a checked checkbox labeled "all".
- Zip Code: A text input field with a search icon (magnifying glass) to its right.
- Buttons: "OK" and "Cancel" buttons are located at the bottom right of the dialog.

13. Continue entering the street name, city, state, and zip code. **Note:** Do not use punctuation or atypical abbreviations in these fields.
14. Click OK. A Post Codes Lookup box will appear:

City	Region
Colorado Springs	Colorado

15. Confirm the correct city and region, and click Select. The address form will now be filled in with the appropriate text.

16. Enter any additional optional information, such as a cross street or subdivision for the Contact.

Notes Tab

To enter Notes about this contact, click the Note Pad tab on the right of the Application View and enter any notes that pertain to the Keyholder.

Access Cards Tab

Contacts can be given access to many areas with the same or different panel user IDs. This is entered on the Access Cards tab in the Contact List. This tab shows a grid filled with all of the event systems and their areas.

An entire system can be selected (with or without a panel user ID) or individual areas of the system can be selected (each with or without a panel user ID) or individual areas of the system can be selected (each with or without a panel user ID). A selected area without a panel user ID gives this person On Test access to the area, assuming the user has On Test permission. An area must be selected in order to give it a panel user id. Thus, the contact will have On Test ability on any area that they have a panel user ID configured.

Access Control Cards

Card	Transmitter	Card Set	PIN

Add
Remove

Card Number: Transmitter:
 Card Set: Card ID:
 Access Type: PIN:
 Reuse time: Escort Card:
 Access Levels:
 Elevator In-Sched Group:
 Elevator Out-Sched Group:
 Pin Cmds Allowed Extended Access
 Passback Allowed

Access Card Lookup

Add
Remove
Convert

Raw Hex Number

Please note that Access Control must first be set up in order to enable the fields in the Access Control Tab. Access Control can be set up using directions found here. Once Access Control has been established, return to the Access Control Tab on the Contact List form and click on the Add button to bring up the Add Access Control Card dialog:

Add Access Control Card

Transmitter:

Card Set:

Card Number:

Card ID:

OK Cancel

Select the Transmitter and Card Set before indicating the Card number and Card ID. Once these fields are entered, click OK to return back to the main Access Control Tab. The added

card will now appear in the form:

Access Control Cards

Card	Transmitter	Card Set	PIN
1	vertex	<None>	

Add
 Remove

Card Number: 1 Transmitter: vertex
 Card Set: <None> Card ID: 88
 Access Type: Card & PIN or Card PIN:
 Reuse time: 0 Escort Card:
 Access Levels:
 Elevator In-Sched Group: <None>
 Elevator Out-Sched Group: <None>
 Pin Cnds Allowed Extended Access
 Passback Allowed

Access Card Lookup

Add
 Remove
 Convert

Raw Hex Number

From here, users may enter a PIN number, Escort Card, or select Elevator groups.

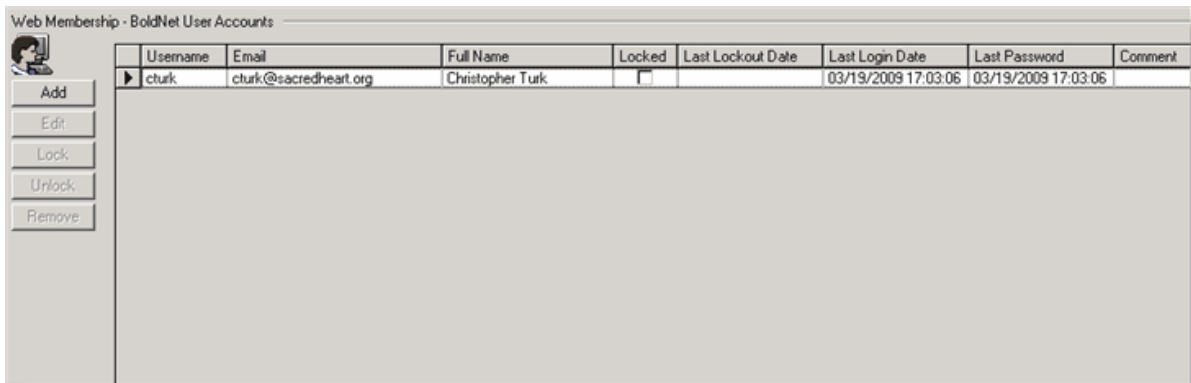
- **Card ID:** This is the physical card number. The Card Number and Card ID values must match.
- **PIN:** The PIN code associated with the card. A PIN code of “0” indicates there is no PIN code.
- **Access Levels:** These are the access groups this card belongs to (maximum of 8) which assigns/limits access.
- **Elevator In-Sched Group:** This is the elevator group the card belongs to when in schedule.
- **Elevator Out-Sched Group:** This is the group the card belongs to when out of schedule, such as after hours, or only the garage and lobby floors so the person can exit the building, but no longer have access to any other floors.

- **Pin Cmds Allowed:** This indicates if the card holder is allowed to implement PIN commands.
- **Passback Allowed:** When checked, the card is exempt from anti-passback.
- **Extended Access:** This indicates if the extended access is on (i.e., longer grant access time for a physically challenged person).

The Access Card Lookup provides a card list of un-decoded cards (raw hex value only).

Web Membership Tab

The Web Membership tab is used to manage BoldNet users by allowing addition of accounts, edits or deletion of accounts, or by temporarily locking users out of BoldNet access. All of the user accounts are associated with the Contact List person(s).



Username	Email	Full Name	Locked	Last Lockout Date	Last Login Date	Last Password	Comment
cturk	cturk@sacredheart.org	Christopher Turk	<input type="checkbox"/>		03/19/2009 17:03:06	03/19/2009 17:03:06	

With the Manitou Client in Edit mode, click on the Add button to bring up the Web Membership User dialog:

Web Membership User

User Account Details

Username:

Full Name:

Email:

Comment:

User Account Security Details

Password:

Confirm Password:

Security Question:

Security Answer:

Locked Out

Manitou Credentials

Web Access ID: 5552288

Password: 1234

Enter a username and the full name and contact E-mail for the new user account. Any comments about the account can be entered into the Comment field. The User Account Security Details fields are used to log in to the BoldNet client. In this example, the username to log in to the client will be "cturk" and the password given in this form. Security questions may be added in the event that the customer has forgotten their password. This question will appear in the BoldNet client when the customer clicks on the "forgot password?" link. By answering the security question with the answer given in the Manitou Web Membership form, the customer will then have their username and password sent to them to the E-mail address provided in the Web Membership User form. They will then be able to reset their password via the link given in the E-mail.

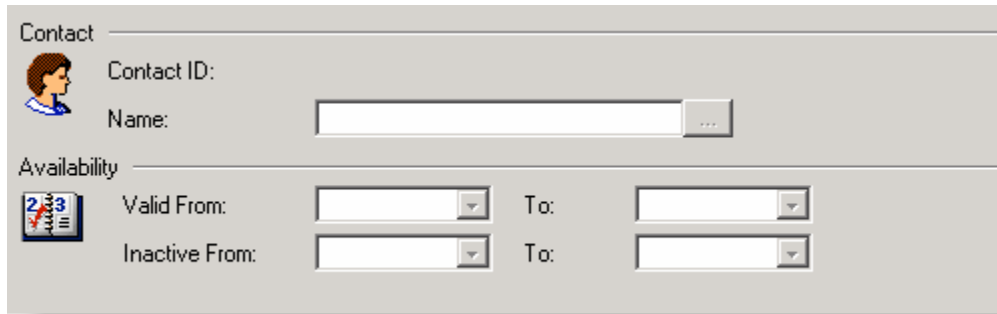
At times, a customer may need to be temporarily locked out from accessing the BoldNet client. Clicking on the Locked Out checkbox will perform this action. When their access is reinstated, uncheck the box to allow access back into the web Client.

The Manitou Credentials portion of the form displays what Manitou account (including the Web profile, which is the customer's Web permissions) the Web membership is tied to. In this example, when the customer logs into BoldNet, he will be tied to the Web Access ID of "5553388."

For more information on BoldNet usage, please request additional documentation for the BoldNet User's Guide.

Dealers

The Dealer contact list will be pre-populated based on the data entered into the Customer Details form.



Contact

Contact ID:

Name:

Availability

Valid From: To:

Inactive From: To:

1. Enter a Valid From date to indicate when this Dealer will be a valid contact.
2. If applicable, enter a Valid To date to indicate when the Dealer will become an invalid contact.
3. If the Dealer will be inactive during a certain date, enter the date into the Inactive from and Inactive To fields.

Agencies

Agencies are businesses that access secure business locations or private residences and offer some sort of service. Some of the agencies would be Guarding, Cleaning or Janitorial companies, Key services or cash transportation. It is necessary to include these companies as they pertain to the customer account.

The screenshot shows a software interface for managing contacts. On the left is a tree view with categories: Contacts, Dealer, Agencies (highlighted), Branch, Authorities, Customers, and Anna Haiar [120906]. Above the tree are 'Add' and 'Remove' buttons. The main area is titled 'Contact' and contains a 'Contact ID' field, a 'Name' field with a search icon, and a 'Type' field. Below this is the 'Access' section with a list of permissions, each with an unchecked checkbox: Permissions suspended, Can Open/Close within schedule, Can Open/Close within temp open window, Can Open/Close anytime, Can cancel Alarm, Can authorize a schedule change, Can put system Out of Service, Can put designated Area Out of Service, Can edit Customer, and Can give out Customer information. The 'Passwords' section includes a 'Password' field, a 'User No.' field, an 'Area' dropdown, and a 'Temp Open Time' spinner set to 0. The 'Availability' section has 'Valid From' and 'To' dropdowns, and 'Inactive From' and 'To' dropdowns.

1. Highlight Agency in the Contact List navigator.
2. Click the Add button to bring up the Add Agency screen:

The 'Add Agency' dialog box has a blue title bar. It contains a 'Contract ID' field with a search icon to its right, a 'Name' field, and 'OK' and 'Cancel' buttons at the bottom.

3. Enter the Agency Contract Number button to find the Agency or use the search function to locate the Agency.
4. Verify the selection is correct then click OK to return to the Contact Information screen.
5. Select the appropriate permissions from the Access checkboxes.
6. In the passwords portion of the screen, enter a password for the Agency into the Password field.

7. If the agency is only allowed access to a single specific area, use the drop-down arrow to the right of the Area field to select the area from the list.
8. If there is a specific User Number associated with this agency, enter it into the User No. field.
9. Enter a temporary open time (in minutes).
10. Set the Valid and Inactive dates by clicking the drop-down arrow to the right of the field and selecting the dates from the calendar.
11. Click the House tab to the right of the Application View.
12. All information should be defaulted into their applicable fields. This page is not editable.
13. Click the Notepad tab to the right of the Application View.
14. Enter any Notes about this Agency as are pertinent to this customer.
15. In the Verification Question field, enter a question that the Agency contact would have to answer to verify identity.
16. Tab or click into the next field and enter the Verification Answer.
17. Repeat the above steps for all Agencies associated with this customer account.

Branch

The Branch contact list will be pre-populated based on the data entered into the Customer Details form.

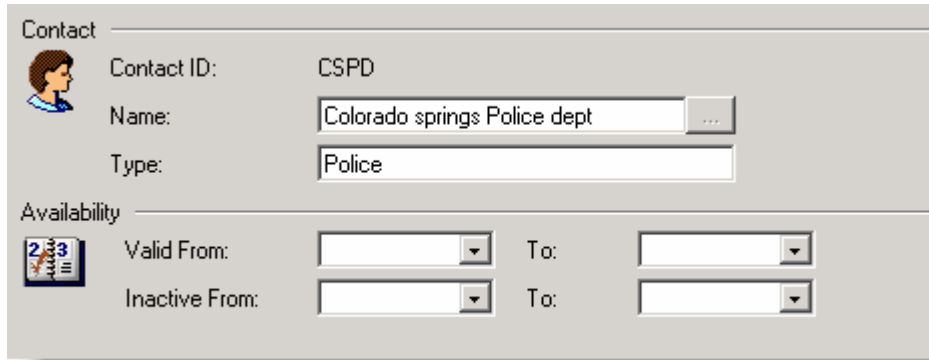
The screenshot shows a software interface for managing a contact. At the top, it says 'Contact' with a small icon of a person. Below that, 'Contact ID: 1' is displayed. The 'Name' field contains 'Family Focus' and has a small '...' button to its right. Underneath, the 'Availability' section is visible, featuring a calendar icon and four date pickers: 'Valid From', 'Valid To', 'Inactive From', and 'Inactive To'. Each date picker has a small downward arrow on its right side.

1. Enter a Valid From date to indicate when this Branch will be a valid contact.
2. If applicable, enter a Valid To date to indicate when the Branch will become an invalid contact.
3. If the Branch will be inactive during a certain date, enter the date into the Inactive from and

Inactive To fields.

Authorities

The Authorities contact list will be pre-populated based on the data entered into the Customer Details form.



The screenshot shows a 'Contact' form with the following fields and values:

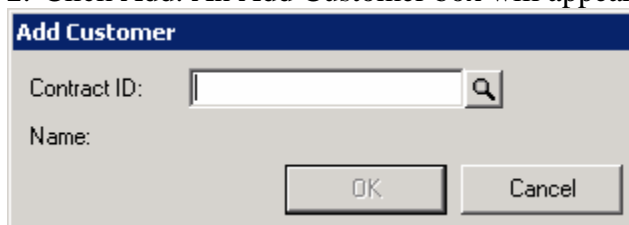
- Contact ID: CSPD
- Name: Colorado springs Police dept
- Type: Police
- Availability section with four date pickers:
 - Valid From: [empty]
 - Valid To: [empty]
 - Inactive From: [empty]
 - Inactive To: [empty]

1. Enter a Valid From date to indicate when this Branch will be a valid contact.
2. If applicable, enter a Valid To date to indicate when the Branch will become an invalid contact.
3. If the Branch will be inactive during a certain date, enter the date into the Inactive from and Inactive To fields.

Customers

In some cases, customer accounts may be linked together as contacts for each other. Sometimes different accounts are tied together, for example, a single Keyholder may be responsible for several accounts.

1. Click Customer to highlight it in the Contact List navigator.
2. Click Add. An Add Customer box will appear:



The screenshot shows the 'Add Customer' dialog box with the following fields and buttons:

- Contract ID: [empty] [Search icon]
- Name: [empty]
- Buttons: OK, Cancel

3. Enter the Customer Contract Number or click the Search icon to find the Customer.
4. Click OK.
5. Back at the main screen, set the Valid From and Valid To dates using the drop-down arrow

to the right of the fields to select the dates from the calendar:



The screenshot displays a software window titled "Contact" with a sub-section "Availability".

Contact Section:

- Contact ID: 122882
- Name: David Haiar (with a search icon to the right)
- Navigation icons: Up arrow, Down arrow, and Alphabetical sort (A-Z, B-C).

Availability Section:

- Valid From: [] To: []
- Inactive From: [] To: []


The date selection fields are currently empty, indicating that a calendar is used to select dates.

6. If this customer will have a period of inactivity due to office closure or vacation schedule, for example, use the drop-down arrows to the right of the Inactive From and Inactive To fields to select the dates from the calendar.
7. Click the House tab to the right of the Application View to view contact information for this Customer. This screen is not editable as all of the values are auto-filling from an existing Customer record. If any information needs to be edited do so to the Customer record directly.
8. Click the Notepad tab to the right of the Application View. Enter any pertinent notes about this Customer record.
9. Repeat this process for all Customer Keyholders related to this Customer account.

Call Lists

A **Call List** for a Customer contains details for all the people, Agencies, Authorities, Dealers and/or Branches requiring contact for a given alarm. Call Lists are especially useful for commercial sites that may have differing shifts based on the time of day. A Call List provides the ability to rotate the members of a list. Rotation lists are often placed in order to ensure that one Keyholder is not the only Keyholder contacted each time an alarm occurs.

The screenshot shows a software interface for managing call lists. It features a left-hand navigation pane with 'Main Lists' and 'Sub Lists'. The main workspace is titled 'Call List' and contains several input fields: 'Call List' (for name/code), 'Description', 'Rotation List Active' (checkbox), 'Next Rotation' (with a dropdown and '00:00' time field), and 'Interval (Days)' (with spinners). A central list shows categories like 'Keyholders', 'Dealer', 'Agency', 'Branch', 'Authority', 'Customer' (expanded to show '120906 - Anna Haiar' and 'Sub Lists'), and 'Sub Lists'. Navigation buttons (>, <, >>, <<) are positioned to the right of the list. At the bottom right, there are checkboxes for 'Must Contact' and 'Does Not Rotate'.

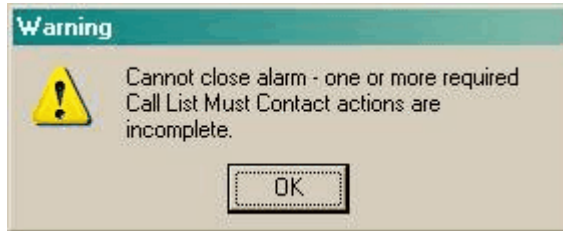
1. Open the Call List for the customer by clicking on the Call List button in the Jump To menu.
2. Click on the Add button.
3. Enter the Call List name or code into the first field. This name or code should be determined by the Central Station administrator.
4. Tab into the Description field and enter a short description of the Call List.
5. If the list is a Main Call List, select Main. If it is a Sub List of a Main list, select Sub List.
6. Click Add to Matrix. The Call List will be added to the Customer's account.
7. Click OK.
8. Back at the Call List form, select the item or items from the Contacts list that should appear in the Call List. Contacts appearing in the list should be previously added in the Contacts form of the customer record.
9. Move the Contacts over to the Call List by clicking on . The Contacts will now appear in the Call List.

10. Move list items up and down based on priority by clicking on the up/down arrows to the right of the Call List.
11. If the Call List rotates, check the Rotation List Active checkbox. The contact at the top of the list will automatically be the head of the list, indicated by an icon that appears when the Rotation List Active checkbox is checked. This contact will be first in rotation.
12. Indicate the Next Rotation date by selecting the correct date from the calendar. The start date defaults to the current day.
13. Set the rotation interval by clicking on the up/down arrows to set the number of days each rotation is active before rotating.
14. If a Contact on the list is a Must Contact or Does not Rotate, select the appropriate Contact and check the applicable boxes.
15. Once all data is entered, click Save.

Previously, Operator cancel allowed the alarm to be closed regardless of if incomplete Must Contacts were present. Now, the operator is warned of this, and must override to close the alarm.

The screenshot shows the 'Call List' configuration window. At the top left are 'Add' and 'Remove' buttons. Below them is a tree view with 'Main Lists' and 'Sub Lists'. The main area is titled 'Call List' and contains a telephone icon, a 'Description' text box, a 'Rotation List Active' checkbox, a 'Next Rotation' date/time selector (set to 00:00), and an 'Interval (Days)' spinner. Below these is a list of contacts: Keyholders, Dealer, Agency, Branch, Authority, Customer (with a sub-entry '120906 - Anna Haiar'), and Sub Lists. To the right of this list are navigation arrows: a single right arrow, a single left arrow, a double right arrow, and a double left arrow. Further right are up and down arrows. At the bottom right are two checkboxes: 'Must Contact' and 'Does Not Rotate'.

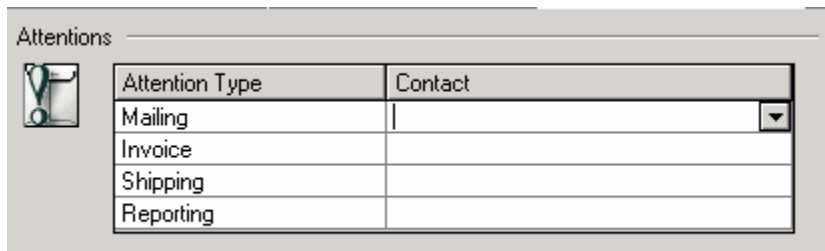
The Customer Option (MOPTION) for Must Contact Required still exists. If an alarm is canceled, and the above MOPTION is true, customer cancel will no longer close the alarm:



The MOPTION for Action Pattern is Optional does not affect Must Contact – users must still contact them. If they don't want this behavior, then don't check Must Contact when setting up the call list. Any action after a CLOSE command is optional (standard behavior). This is still true for Must Contact as well.

Attentions

Attentions are used for the sole purpose of printing and mailing paper copies of reports run through Manitou. If an Attention is entered, Manitou will print that attention prior to printing out the physical address of the recipient.



1. Enter an attention into the appropriate field by first clicking on the Edit button to put the screen into edit mode.
2. Click in the appropriate field.
3. Select the contact from the drop-down menu. (Note: For Contacts to appear, they must first be entered into the Contact List).
4. Click Save.

Permits

The **Permits** form lists all permits held by security companies and other protective services like the Police, Fire and Medical Services. Additionally, Permit forms detail the types of alarm each company handles as well as the active dates and expiration dates for each Permit. Information on this form depends on the Permit Type information which should have been

previously entered under Maintenance: Permit Types.

The instructions below detail entering information for Authority Permits.

1. Open the Permits screen by clicking on Permits in the Jump To menu.
2. If the screen is not already in Edit mode, put it into Edit mode by clicking on the Edit button. A blank Authority Permit line will appear:

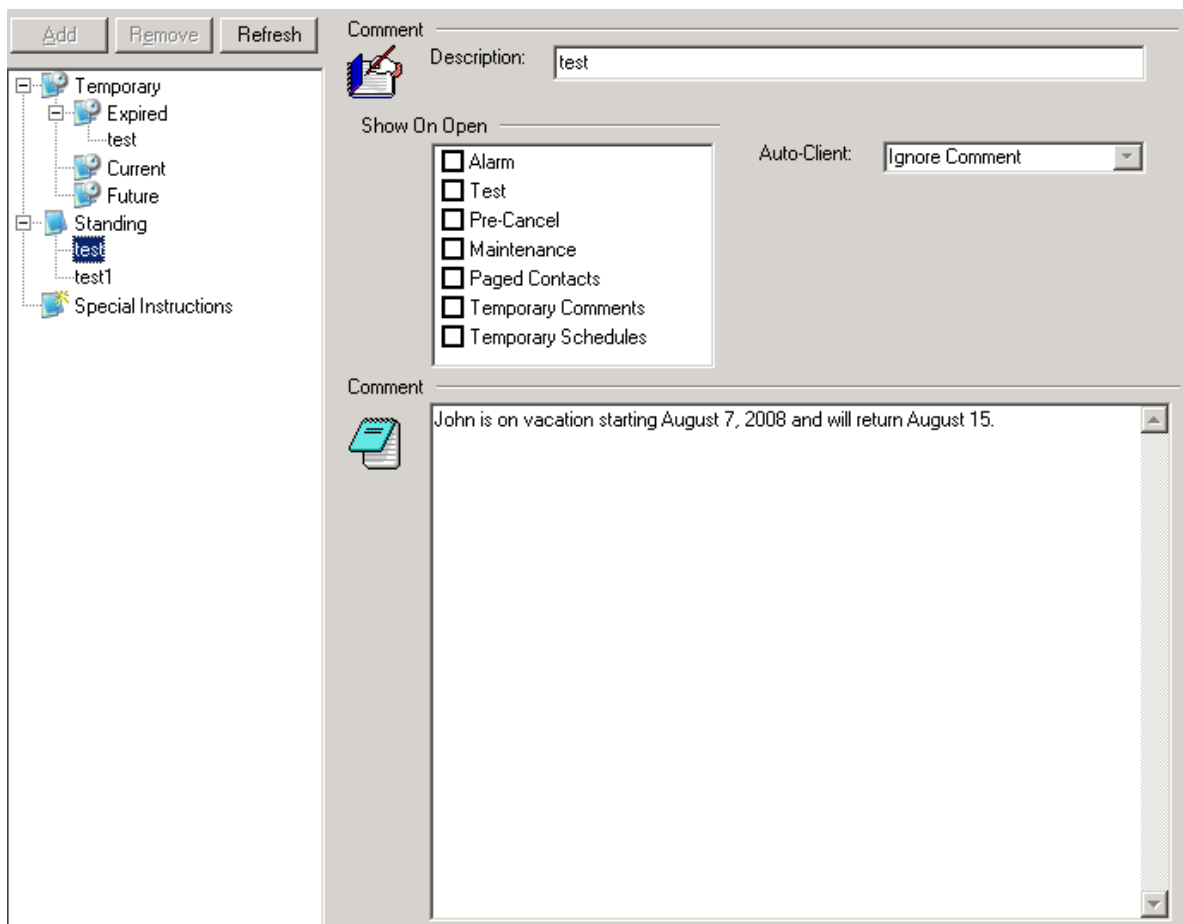
Authority Permits

Permit No.	Authority/Permit Type	Status	Status Date	Exp. Date	False Alarms
*					

3. Click in the Permit No. column and enter the Permit number. The Central Station administrator may need to be contacted for numbering instructions.
4. Click in the Authority/Permit Type column and use the drop-down arrow to select the Permit Type from the list. The Permit Types should already be entered in the Maintenance: Permit Types portion of the Operator Workstation.
5. Tab into the Status field and use the drop-down menu to select the Status from the list. The Status levels indicate the number of allowable False Alarms for the account. Unknown indicates that the number of allowed false alarms is unknown and it is unknown if Authorities are able to respond. Normal indicates the normal number of allowed false alarms, while May Respond indicates that Authorities may respond to the customer site. No Response indicates that Authorities may not respond to the customer site.
6. Tab into the Status date and enter the date on which the Permit is active. Numbers may only be entered in this field and dashes (-) or slashes (/) are prohibited.
7. Tab into the Exp Date cell and enter the date on which this Permit will expire. Numbers may only be entered in this field and dashes (-) or slashes (/) are prohibited. **Note:** The Expiration Date may not exceed the Status Date, so a date must be entered into this field.
8. Once the information is entered correctly, click Save.

Comments

The **Comments** area of the software allows users to view, enter, or edit temporary, current, future, and special instruction for a customer. The Comment area also offers users access to view expired comments about a customer.



The Comments form is divided into four sections: Comment tree, description, alert and actual comment.

View Comments

1. Load the customer and select Comments from the Jump To menu.
2. On the left side of the screen click on the Temporary, Standing, or Special Instructions options within the tree menu. The tree menu will expand to display subsections of the tree menu.
3. After locating the desired comment from the tree menu click on the comment. The comment information will display on the right side of the screen under the Comment area. If the comment has a valid date it will display under the title within the Comment area of the screen. This completes how to view comments.

Edit Comments

1. Select the Edit tab at the top of the Comment screen.
2. The Verify Password screen will display. Verify all the information is correct and click the

OK button. The Customer Comment screen will automatically display. If the customer (key holder) does not have access to edit the account the Verify Password screen will not allow the Operator into the Edit area of the Comment screen. Click the Cancel button to return to the View Comments screen if access is not allowed.

3. Above the tree menu there are three buttons Add, Remove, and Refresh. Select the Add button to add a comment into the tree menu and onto the customers account. The Add Comment screen will display.
4. Select the Comment Type by clicking the circle that fits the type of comment that will be added.
5. Type the comment description in the Description field or select a description from the drop-down menu to the right of the Description field if available.
6. Click on the OK button when completed. The additional comment will display within the tree menu.
7. Locate the Comment area of the screen. If a Standing comment has been added to the account begin typing the comment into the blank white area on the right side of the screen. If a Temporary comment has been added to the account enter in a date and time within the Valid From and Valid To areas then begin typing comments.
8. To remove a comment from an account click on the comment that needs to be removed from the tree menu the comment will turn blue when it has been selected.
9. Click on the Remove button above the tree menu to remove the selected comment.
10. To save the changes click on the Save tab at the top of the screen. After the save has been completed the software will automatically return to the View tab.

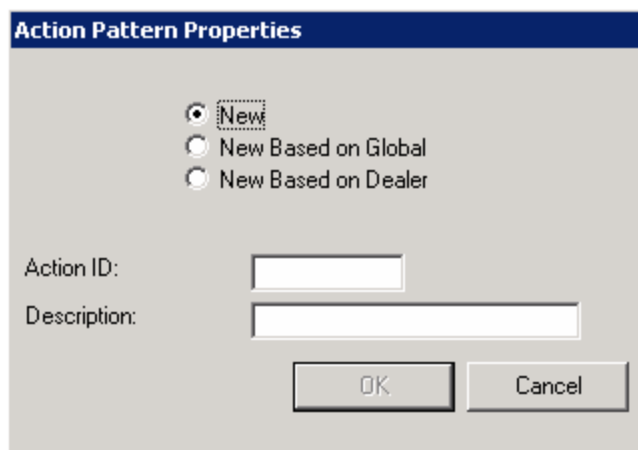
Action Patterns

Action Patterns are a vital part of alarm handling and processing. They act as a set of instructions the Operator will follow during Alarm Handling so the Operator knows exactly what to do upon receiving a specific type of Alarm.

Action Patterns may be set up at various levels, such as Global, Dealer, etc.; however, Customer Action Patterns are the most specific. When adding customer programming for particular alarms, unique action patterns may be selected rather than more general Global Action Patterns. Action Patterns should in part be determined by the customer, especially if it is a commercial site and several types of alarms (such as a Freezer Alarm) may be received.

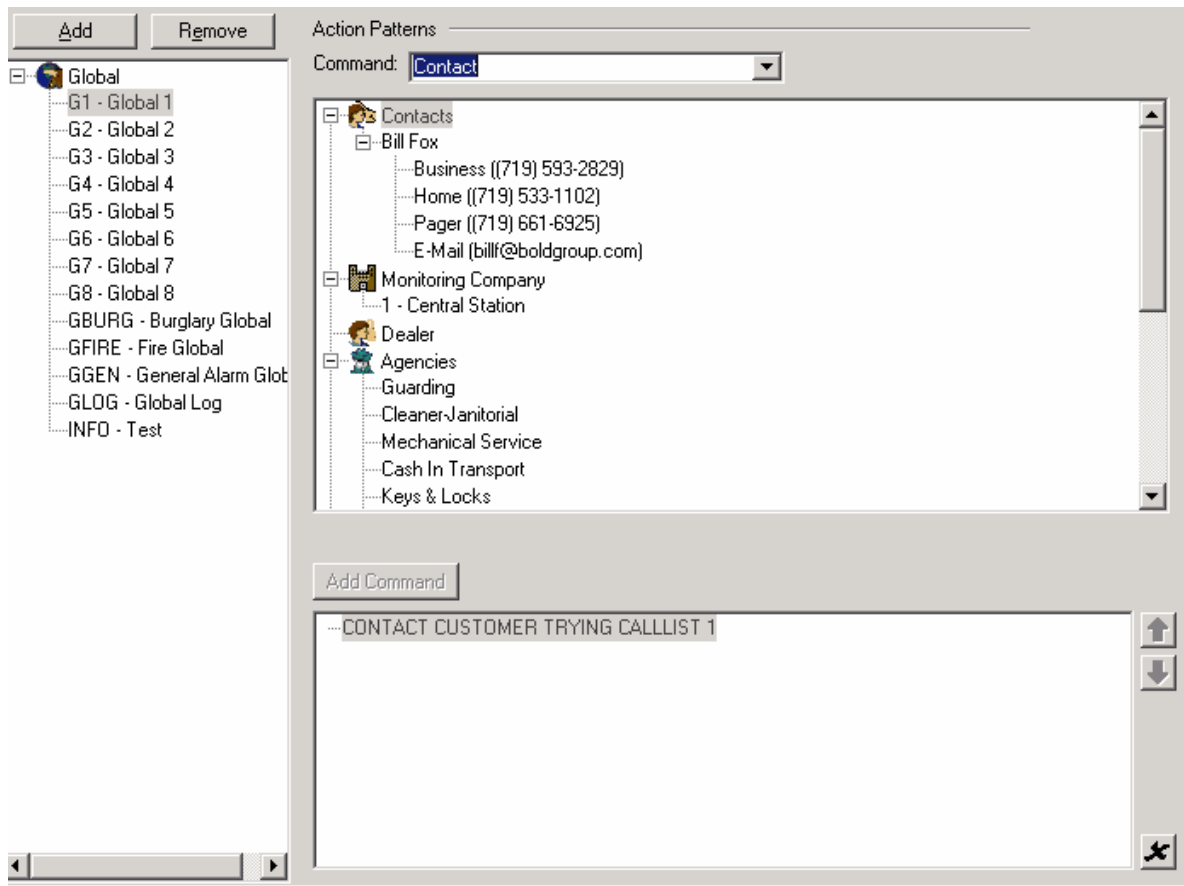
1. Selection Action Patterns from the Jump To list.
2. If the screen is not already in Edit mode, click on the Edit button.

- Click on the Add button located above the Action Patterns list. An Action Pattern Properties box will appear:



The screenshot shows a dialog box titled "Action Pattern Properties". It contains three radio button options: "New" (which is selected), "New Based on Global", and "New Based on Dealer". Below these options are two text input fields: "Action ID:" and "Description:". At the bottom of the dialog are two buttons: "OK" and "Cancel".

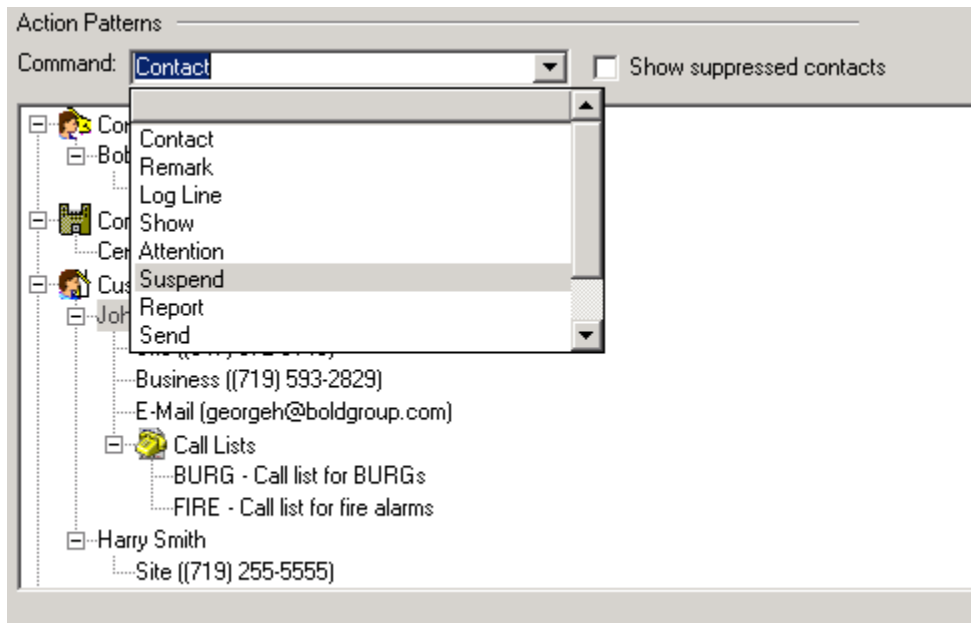
- Indicate whether the Action Pattern is New, New based on Global, or New Based on Dealer. An Action Pattern based on a Global or Dealer Action Pattern is still editable, but uses a pre-existing Action Pattern as a template.
- Enter a brief Action ID.
- Enter a brief Description of the Action Pattern.
- Click OK.
- Select the newly created Action Pattern from the Action Patterns list.



Note: Action Patterns added to the Central Station are Global Action Patterns and are therefore available when viewing Customer and Dealer records.

Keep this in mind when configuring Monitoring Company action patterns. These should be applicable to a category of alarms. For example: The action pattern for a Burglary Alarm might be similar for many customers so the sequence of events can be defined by a Global Action Pattern rather than creating separate Action Patterns for each Customer. The following instructions cover how to add Action Patterns to the Central Station record:

1. Scroll down the navigation list, select Customer Action Patterns and Click Add.
2. Click into the Action ID field and Enter a brief code for the Action Pattern.
3. Click into the Description field and enter a short description of the Action Pattern.
4. Click OK to return to the main Action Patterns screen.
5. Select the type of Action to execute in the Command drop down menu:



- **Contact** - Add contacts to Action Patterns to guide the Operators in calling, paging and/or emailing relevant individuals:
 1. Select the Contact to add to the Action Pattern from the list.
 2. Click the Add button located just above the Action Pattern pane, to add the Contact to the list.
 3. Repeat this process for all persons requiring contact with this Action Pattern.
 4. Use the Up and Down arrows to the left of the pane to adjust whom to contact first, second, etc.
 5. If a contact was added in error, remove by selecting the list item and clicking the "X" button located just outside the lower left corner of the Action Pattern pane.

- **Remark** - Add a remark to the Action Pattern to insert a comment or reminder for the Operator:
 1. Tab or Click into the Remark pane.
 2. Type the Remark to be added to the Action Pattern.
 3. Click the Add button located just above the Action Pattern pane, to add the Remark to the list below.
 4. Repeat this process for all remarks tied to this Action Pattern.
 5. Use the Up and Down arrows to the left of the pane to adjust exactly when in the Action Pattern the remark should be executed.
 6. If a remark was added in error, select it from the list and click the "X" button located just outside the lower left corner of the Action Pattern pane to remove the item.

- **Log Line** - a Log Line action will be added to the Customer Log for each alarm to which it's added:
 1. Tab or Click into the Log Line pane.
 2. Type the information that will appear in the Customer Log.

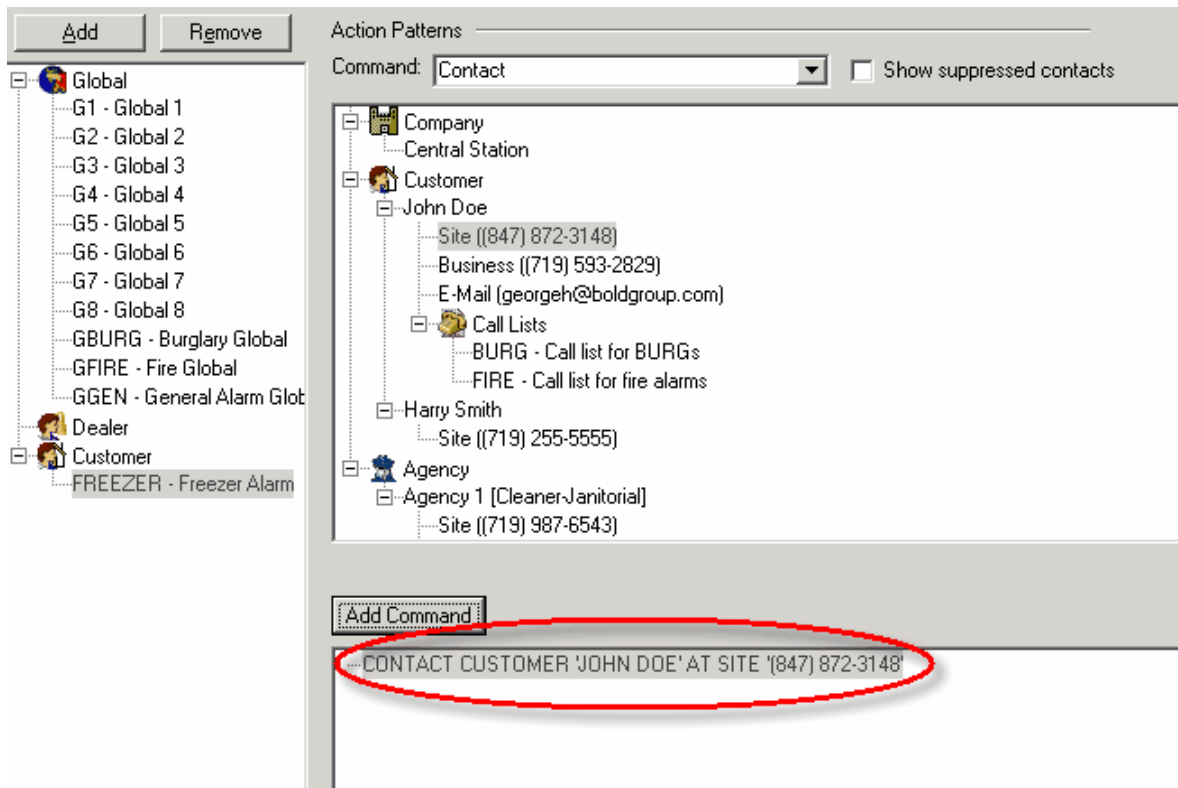
3. Click the Add button located just above the Action Pattern pane, to add the Log Line to the list.
 4. Repeat this process for all Log Lines tied to this Action Pattern.
 5. Use the Up and Down arrows to the left of the pane to adjust when the Log Line should be executed within the Action Pattern.
 6. If a Log Line was added in error, select it from the list and click the "X" button located just outside the lower left corner of the Action Pattern pane to remove the item.
- **Show** - Add this type of Action to display the help text directly from the Event Category, Event Definition, etc. as part of the Action Pattern:
 1. Select an applicable option to show Help Text about one of the following: Event Category, Event Definition, Event Programming, Transmitter or Script.
 2. If selecting Script, click the drop-down arrow to the right of the field just below the Script radio button and select the script to display.
 3. Click the Add button located just above the Action Pattern pane, to add the Show item to the Action Pattern.
 4. Use the Up and Down arrows to the left of the pane to adjust when the Show item should be executed within the Action Pattern.
 5. If a Show item was added in error, select it from the list and click the "X" button located just outside the lower left corner of the Action Pattern pane to remove the item.
 - **Attention** - Add an Attention line for the purpose of emphasizing information, or to fulfill UL requirements about Alarm ticket information.
 1. Tab or Click into the Attention pane.
 2. Type the text to be added to the Action Pattern.
 3. Click the Add button located just above the Action Pattern pane, to add the Attention line to the list below.
 4. Repeat this process for all Attention actions tied to this Action Pattern.
 5. Use the Up and Down arrows to the left of the pane to adjust exactly when in the Action Pattern the Attention line should be executed.
 6. If an Attention line was added in error, select it from the list and click the "X" button located just outside the lower left corner of the Action Pattern pane to remove the item.
 - **Suspend** - Add this type of action to Suspend the Alarm for an allotted period of time at some point in the Action Pattern:
 1. Click the up/down arrows or enter the time to suspend the Alarm.
 2. Select if the time unit is in Seconds, Minutes or Hours by clicking the applicable radio button.
 3. Click the Add button located just above the Action Pattern pane, to add the Suspend command to the list.
 4. Repeat this process again if more than one suspend is necessary for this Action Pattern.
 5. Use the Up and Down arrows to the left of the pane to adjust when the Suspend should be executed within the Action Pattern.

6. If the Suspend was added in error, select it from the list and click the "X" button located just outside the lower left corner of the Action Pattern pane to remove the item.
- **Close** - Add this type of action to prompt for Closing the Alarm with Resolution Codes automatically entered by the action at the end of the Action Pattern:
 1. Click the drop-down arrow to the right of the Resolution Code field.
 2. Select a Resolution Code from the list.
 3. Click the Add button located just above the Action Pattern pane, to add the Close Resolution Code to the list.
 4. Use the Up and Down arrows to the left of the pane to adjust when the Close Resolution Code should be executed within the Action Pattern.
 5. If a Close Resolution Code was added in error, select it from the list and click the "X" button located just outside the lower left corner of the Action Pattern pane to remove the item.

After selecting the Command, select a contact from the contacts displayed in the contact box, and click on the Add Command button. This will add a contact action command:

The screenshot shows a dialog box titled "Contact Action". It features a "Contact Point Type:" label with a dropdown menu currently set to "Site". Below this is a "Script Details:" section containing five radio button options: "Contact Point Default", "Customer Default", "System Default", "Script", and "Free Format". A checkbox labeled "Suspend Until Valid" is also present. To the right of the radio buttons is an empty dropdown menu. At the bottom of the dialog are "OK" and "Cancel" buttons.

Select the Contact Point Type (such as the site number or business number) from the drop-down menu. These contact point types are added on the Contacts form. The Suspend Until Valid checkbox will give the Operator the option to suspend an alarm for the amount of time until an out-of-schedule contact point or call list becomes back in schedule. This option is not allowed for ad-hoc keyholder or agency call lists, since they are dynamically created at run time and cannot have a schedule attached to them. Click OK to finish adding the action to the action pattern. The command will then appear in the action pattern:



Repeat the necessary steps to add additional items to the action pattern. Last, repeat the process for all additional Global Action Patterns required for the Central Station.

A Note About Temporary Contacts in Action Patterns

Temporary contacts that are unavailable - that is, their valid to/from date has expired - will still appear highlighted green in an action pattern. The Application Server does not determine whether the contact is valid or not until the Operator attempts to action it in an action pattern. This saves time pre-analyzing all of the possible actions not knowing whether any will be called upon or not. It will, however, fail (come back as 'Ignored') if the operator tries to action the contact.

General Schedules

The **General Schedules** tab contains the default schedule information for a customer. This is a customer-specific open/close schedule and is the default schedule the system uses when no other schedules apply for the customer record. In other words, this is the day-to-day schedule used by the customer site.

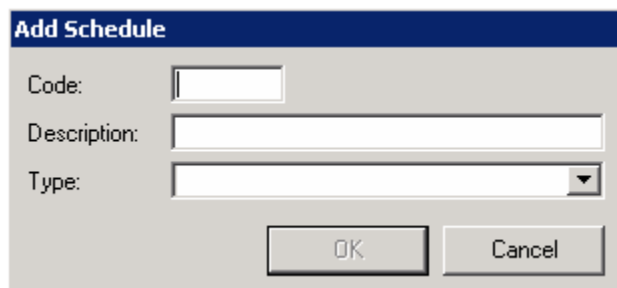
Services

1. Before beginning, an Open/Close schedule must be added in the Services form for the customer.
2. Select the Services form from the Jump To menu.

3. Click on the Add button to add a Service. An Add Monitoring Service window will appear.
4. Select the drop-down arrow to the right of the Monitoring Service field.
5. Select the Open/Close from the list.
6. If an Area is applicable, select the Area from the Area drop-down list. Areas are defined in the Zones and Areas list and will need to be set up prior to adding a Service. To see how to set up a Zone and Area, see the Maintenance: Zones and Areas section of this manual.
7. Click OK.
8. If this service has a specific valid date range; click the drop-down arrow to the right of the Start date and select the date from the calendar. Repeat this process for the End date. If the end date is not known, this field may remain blank.
9. If this service is a fee-based service and the customer should be charged for the service, click the Chargeable checkbox.
10. Enter the Charge Code within the Code field. The Central Station administrator should know the Charge Codes.
11. Review the items for accuracy and click Save. The General Schedules form will now be available.

General Schedules

1. Click on the General Schedules button in the Jump To list.
2. Click the Add button to bring up the Add Schedule window:



The image shows a screenshot of a software dialog box titled "Add Schedule". The dialog box has a blue header bar with the title. Below the header, there are three input fields: "Code" (a small text box), "Description" (a larger text box), and "Type" (a drop-down menu). At the bottom of the dialog box, there are two buttons: "OK" and "Cancel".

3. Enter a Schedule code. This code is limited to 4 characters.
4. Enter a brief Description in the Description field.
5. Select the Type of the Schedule from the Type drop-down menu.
6. Click OK.
7. Check the days of the week this schedule will apply to.

8. Click in the Start 1 cell and enter the first open time. This number should be in 24-hour time.
9. Tab into the End 1 cell and enter the first close time. This number should be in 24-hour time.
10. Repeat the above process for additional open and close times.
11. Click Save.

Plans

Add a Plan

1. Select the Edit button to put the account into edit mode.
2. Click on the Add button in the Plan Control section of the window. An Add Plan dialog box will appear.
3. Enter the description of the plan, such as "House" or "Ground level."
4. Click OK.

Once a Plan Description is added, a Section/Layer image file is uploaded. When the image file appears, Operators may use the toolbar buttons located to the right of the plan image file.



Zoom In



Zoom Out



Select Zoom Area



Full - Maximize Plan to Form

Sections/Layers

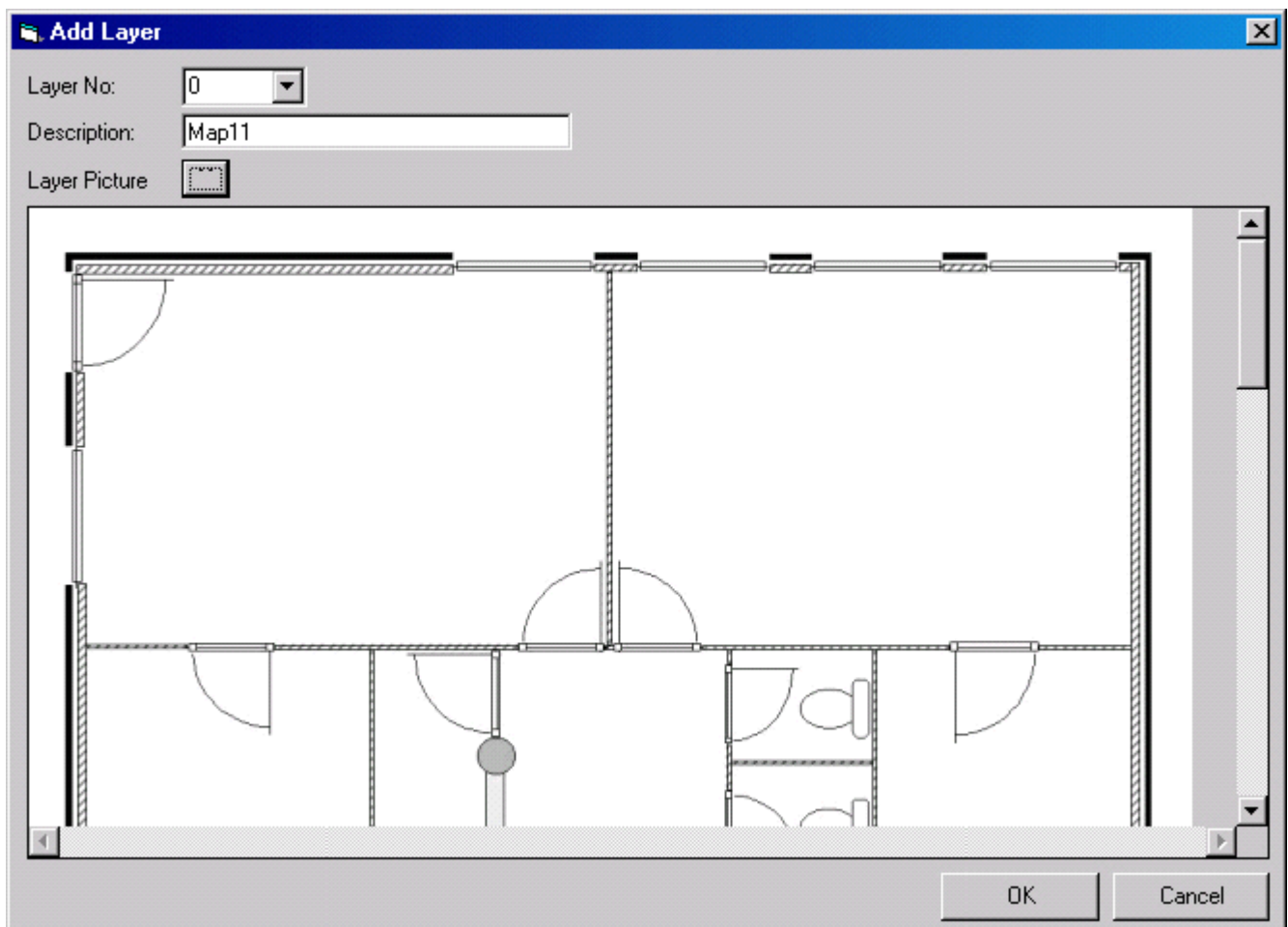
After a plan description has been added, Areas and Sections/Layers are added next. While a plan is an overall description of the layers associated with the plan, the layer or "sections" contain it's own description, number and actual image.

Add Layers to a Customer Record

1. Click the Add button located in the Section/Layer Control portion of the window to open the Add Layer dialogue box.
2. Use the drop-down arrow to choose a Layer No., or type in a number value. **There must**

be a Layer No. 0 for the system to correctly save this layer information.

3. Type a description of the Layer diagram into the Description field.
4. Click the Picture button to browse to the image file selected for a Layer. The image must be in .bmp, .jpg or .gif format.
5. Highlight the file and click Open to return to the Add Layer dialogue box.



6. Click on OK to save this information and to close the Add Layer window.
7. Repeat steps 1 through 6 for each diagram belonging to this Customer record.

The Plans tab displays electronic floor plans of the premises including the locations of cameras, sensors and contacts. The following instructions cover how to add edit and a plan including the placement of zones where they are located on the plans.

Edit a Layer

1. Use the Layer Control drop-down arrow to select the layer for editing from the list.
2. Relocate or remove any zones for the layer.

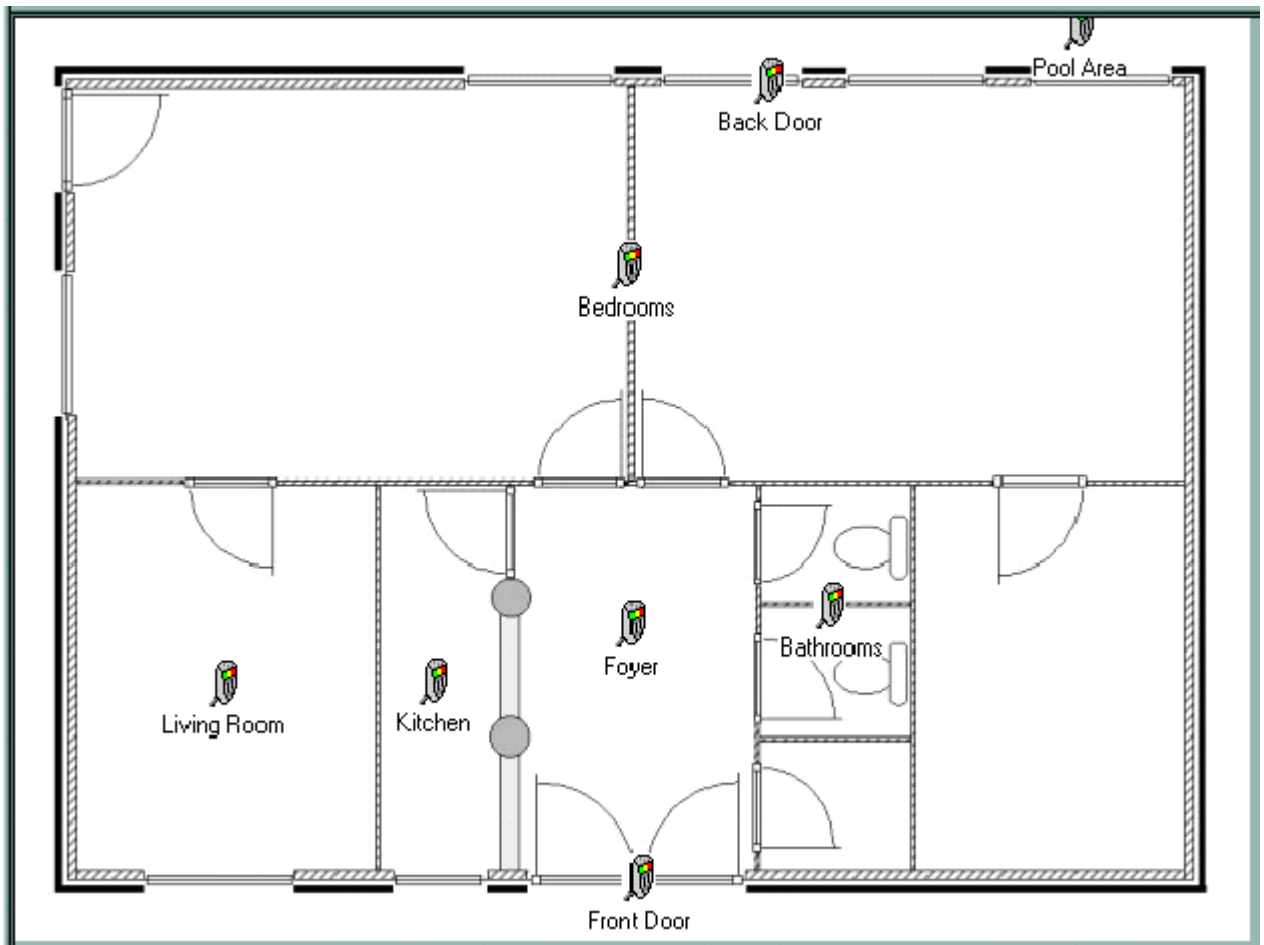
Remove a layer

1. Use the Layer Control drop-down arrow to select the layer to remove.
2. Click the Remove Layer button.
3. Confirm the deletion.

Review all changes to ensure the accuracy of the information changed or added and Save the record. Enter any notes if necessary then click OK.

Zones

After linking one or more image files to the Customer record with the steps above, Zones may be indicated as desired on each diagram.



1. Use the Layer Control drop-down field to select the Layer image.
2. In the Zones box, click on one of the items listed and drag it over the diagram below.
3. Release the mouse-button when the Zone icon appears at the correct location on the diagram.
4. To remove a Zone icon from the diagram, right-click the icon and select Remove.
5. Repeat steps 1 through 3 as needed to add each Zone to the Layer diagrams.

Area

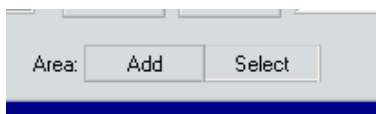
An Area allows the user to associate existing areas with the previously made plan.

Restrictions on drawing areas

- Areas must be normal, closed polygons, with no line segments intersecting. Basically, they must enclose only one area (like a octagon) and not multiple (like a figure-eight).
- No two areas may intersect each other.
- No area may exist within another area.
- The drawing editor will beep if you attempt to place a vertex that violates any of these rules.

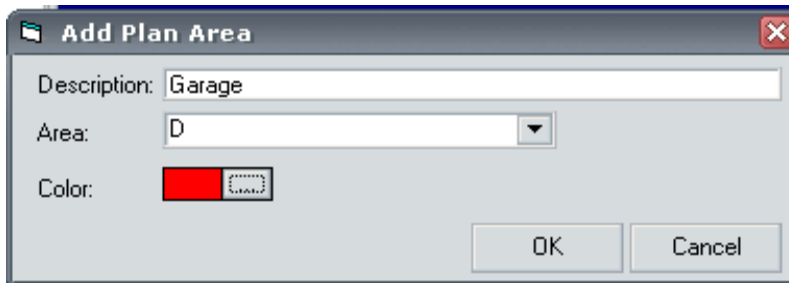
Drawing areas on a plan

1. Put the screen into Edit mode.
2. Select Areas from the toolbar.
3. Select Add from the mode toolbar



4. The plan view will now change so that all existing areas are highlighted, so you know can avoid overlapping areas.
5. Click on the plan where you want the first vertex to be.
6. The Add Area dialog appears. Type a description, select an area, and choose a color for the

area.



Once OK is clicked the user is now in drawing mode. A line will follow the mouse cursor with one end attached to the last vertex clicked, and the other end attached to the mouse.

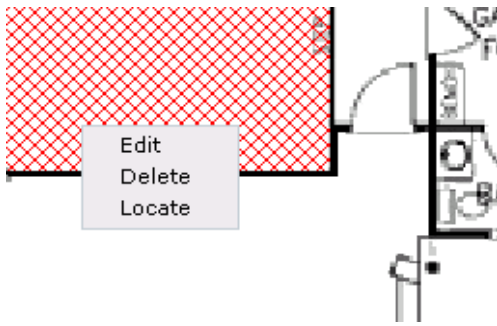
7. To add a point, click the mouse.

Drawing Actions

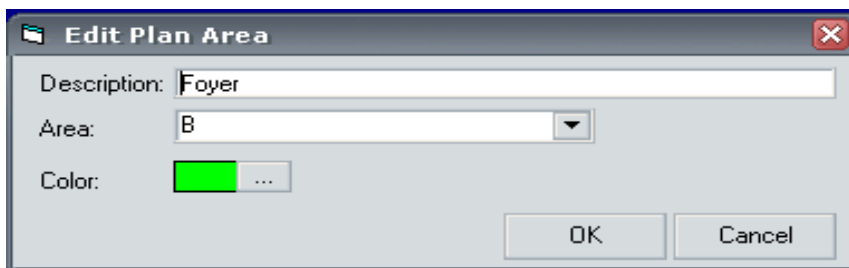
- Left-click - select Add a vertex
- Right-click - Finishes the polygon by drawing a line from the last vertex to the first vertex, and exits drawing mode. If this action will violate any of the rules above, the computer will beep and the action will not be committed.
- ESC key - Removes the last placed vertex. Each successive ESC key press will remove another vertex. If the ESC key is pressed with only one vertex placed, drawing mode will be exited, and the plan area creation will be aborted.

Editing or deleting an area

1. Put the screen in Edit mode.
2. Select Areas from the toolbar.
3. Choose Select from the mode toolbar.
4. Move the mouse on top of the area to be deleted or edited and right click to reveal the context menu:



Selecting Edit will reveal the Edit Plan Area dialog, which is similar in functionality to the Add Plan Area dialog.



The Plan area can now be edited.

Note: Selecting Delete from the context menu will prompt for verification of the delete.

Navigating areas

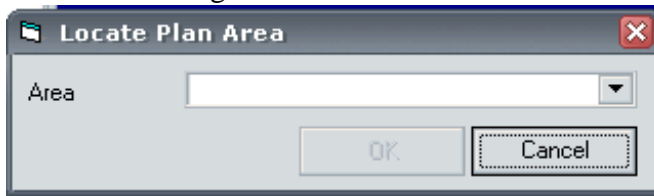
1. Select Areas from the toolbar.
2. Choose Select from the mode toolbar. This will be the only option available in View mode.
3. Moving the mouse over an area will highlight the area in its color and a tooltip will follow the mouse pointer with the name of the area.

Locating a specific area

1. Select Areas from the toolbar.
2. Choose Select from the mode toolbar. This will be the only option available in View mode.
3. Right-click anywhere on the plan. A context menu will be revealed.
4. Choose the Locate option. This will be the only option available if the user is in View

mode, or is not currently hovering over a plan.

The locate dialog will be revealed:



5. Choose a plan area from the dialog. The view will switch (if necessary) to the plan/layer of the area, then flash the area in its color a few times.

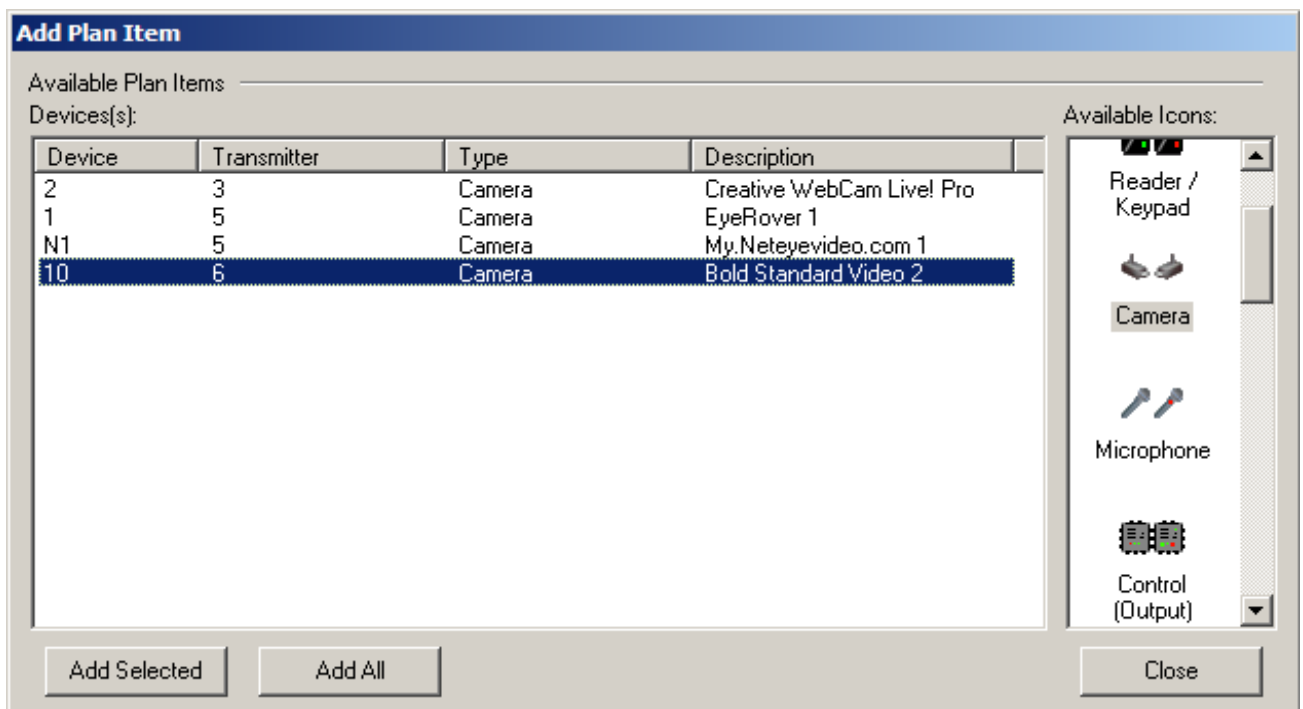
Objects

Objects can be added by right-clicking on the plan and selecting one of the options provided on the right-click menu.

Several objects are available to add:

- Zones – As defined on the Zones & Areas section.
- Devices (which can include Cameras, Microphones, Readers, Sensors, etc.)
- Links – Create links on a plan layer that allow for easy layer navigation.
- Labels – Create labels on the plan to identify rooms or other plan image items.

The "Add Plan Item" dialog which appears when adding a zone, device, or link plan item will list the available items of the selected type which have not yet been placed on the current plan layer.



- Add button – Adds the currently selected item(s) to the plan.
- Add All button – Adds all listed items to the plan.
- Available Icons List - Allows the user to change the icon for the plan item(s) they are adding.

Reverse Command

Reverse Commands are used to send signals back to the customer's panel in order to test to see if the panel is working properly. Reverse Commands also allow the Operator to interact with hardware in the field, such as requesting a picture from a surveillance camera or telling a door with Access Control.

Reverse Channel Command

Type: [] Response Type: []

Group: [] Response Delay: []

Command: [] Command Level: []

Description: [] Command Detail: []

User Group: []

Availability

Attributes

Optional Parameters

Details						
Field	Data	Label	Range	DB	Default	Format

User Defined

The **User Defined** option is for the specific use of each Central Station. Within the Supervisor Workstation, User Defined fields may be added to store additional necessary information about the customer. Examples of this additional information might be salesperson information or internal accounting information

1. With the screen in Edit mode, enter data into the fields on this screen. Since these fields are defined by the Central Station, data entry is dictated by what has been added and by the procedures in place at your location.

2. Review all changes to ensure the accuracy of the information changed or added then Save the record.
3. Enter any notes if necessary then click OK.

Reports

From the Customer Reports screen, Users can add and schedule **reports** to be periodically generated and sent from Manitou to the Branch.

1. Click on the Add New button. The System Reports screen will appear.
2. Select the desired report from the reports list.
3. Check the Priority level of the report. Manitou will use this number to determine which reports in the report queue to print first - the lower the number, the higher the priority. Unless urgent, this number should be set to 6.
4. Enter any relevant search criteria.
5. Click Next.
6. On the Distribution page, select the distribution method and destination for the report.

A number of options are available. Uses can:

- View it on screen, using the preview facility.
- Print it locally (in the central station), with an option to preview first.
- Send it to a nominated customer or dealer, with an option to review first.
- Send it to any individual (whether on the system database or not) by email or fax, also with an option to preview.

Destination Window

Override or unlisted destination:

Override recipient's name:

Override destination type:

Override destination address (Fax/Email):

Add to list

Contact list destination:

Default printer:

Contact list type:

Hold for preview

Contacts

- Bill Fox
- Central Station
- Company (printer only)

>

<

>>

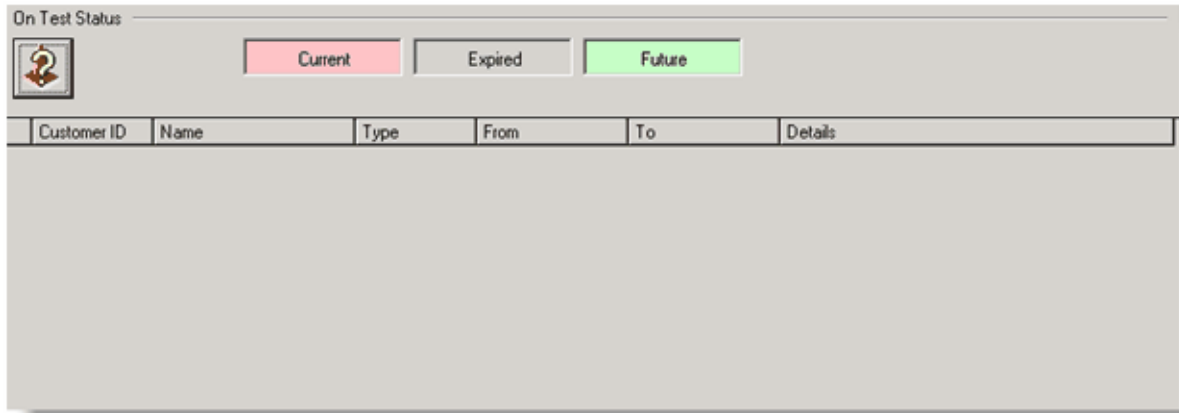
<<

For more information on printing, sending and previewing reports, see the Reports: Run a System Report section of this manual.

On Test

The **On Test** form on the customer record provides the Operator with a display of all on test entries for this particular account that are on record in the Manitou system. This display is a read-only screen.

1. Select the Operations menu.
2. Select On Test Inquiry. The form will appear:



The following information is displayed:

- Contract No. - the customer's Contract Number
- Name - the customer's or company's Name
- Type - the Type of On Test period - Temporary or Permanent
- From - the beginning date and time of the On Test period
- To - the ending date and time of the On Test Period
- Details - information about which parts of the system are On Test (or "Whole System")

Current On Test accounts are shown in red, while expired accounts are shown in grey. Future On Test accounts are displayed in green.



To refresh the list, click on the Refresh button.

Zone Status

The **Zone Status** on a customer record shows a list of any unrestored zones currently for that customer account. This is a view-only screen and can be refreshed by clicking the refresh



button.

Activity Log

The **Customer Activity Log** screen simply shows a log of all activity on the customer's account. From this screen, Operators may add a comment, add a resolution code, or filter the log to show a specific activity for record purposes.

Customer Activity Log

More Comment Resolution Code

Date	Time	Log Description	User ID
08/05/2008	06:28:33	VIEW - Customer Opened for View	BOLD
07/31/2008	15:00:18	VIEW - Customer Opened for View	YANNA
07/30/2008	12:50:46	SIGNAL - Fire Alarm (FA) 'Fire Zone 1' S: 1 A: 1 Z: 1 RL: 00 TX-ID: 7777 Key: FA OA: 1	
07/29/2008	10:07:03	SIGNAL - Late-To-Test (LT) S: 1 Key: 'LT	
07/28/2008	17:00:03	ALARM - Late-To-Close (LC) S: 1 A: 1 Key: 'LC OA: 1 Dup-Event	
07/28/2008	10:06:02	SIGNAL - Late-To-Test (LT) S: 1 Key: 'LT	
07/27/2008	10:05:02	SIGNAL - Late-To-Test (LT) S: 1 Key: 'LT	
07/26/2008	10:04:01	SIGNAL - Late-To-Test (LT) S: 1 Key: 'LT	
07/25/2008	17:00:01	ALARM - Late-To-Close (LC) S: 1 A: 1 Key: 'LC OA: 1 Dup-Event	
07/25/2008	15:59:56	SAVE - Customer Details Saved	YANNA
07/25/2008	10:36:42	EDIT - Customer Opened for Edit - Auth: Operator	YANNA
07/25/2008	10:36:31	SAVE - Customer Details Saved	YANNA
07/25/2008	10:36:24	EDIT - Customer Opened for Edit - Auth: Operator	YANNA
07/25/2008	10:35:10	VIEW - Customer Opened for View	
07/25/2008	10:34:05	EDIT - Customer Opened for Edit - Auth: Operator	
07/25/2008	10:33:56	VIEW - Customer Opened for View	
07/25/2008	10:03:03	SIGNAL - Late-To-Test (LT) S: 1 Key: 'LT	
07/24/2008	17:00:02	ALARM - Late-To-Close (LC) S: 1 A: 1 Key: 'LC OA: 1 Dup-Event	
07/24/2008	10:02:02	SIGNAL - Late-To-Test (LT) S: 1 Key: 'LT	
07/23/2008	17:00:01	ALARM - Late-To-Close (LC) S: 1 A: 1 Key: 'LC OA: 1 Dup-Event	
07/23/2008	10:01:03	SIGNAL - Late-To-Test (LT) S: 1 Key: 'LT	
07/22/2008	17:00:02	ALARM - Late-To-Close (LC) S: 1 A: 1 Key: 'LC OA: 1 Dup-Event	
07/22/2008	10:00:00	SIGNAL - Late-To-Test (LT) S: 1 Key: 'LT	
07/21/2008	17:00:02	ALARM - Late-To-Close (LC) S: 1 A: 1 Key: 'LC OA: 1	
07/21/2008	15:55:23	SIGNAL - Fire Alarm (FA) 'Smoke detector' S: 1 A: 1 Z: 5 RL: 00 TX-ID: 7777 Key: FA OA:	
07/21/2008	15:54:21	SIGNAL - Fire Alarm (FA) 'Garage' S: 1 A: 1 Z: 4 RL: 00 TX-ID: 7777 Key: FA OA: 1 OZ: 4	
07/21/2008	15:53:28	VIEW - Customer Opened for View	123
07/21/2008	15:53:22	SIGNAL - Fire Alarm (FA) 'Living Room' S: 1 A: 1 Z: 3 RL: 00 TX-ID: 7777 Key: FA OA: 1	
07/21/2008	15:52:22	SIGNAL - Fire Alarm (FA) 'Kitchen' S: 1 A: 1 Z: 2 RL: 00 TX-ID: 7777 Key: FA OA: 1 OZ: 2	

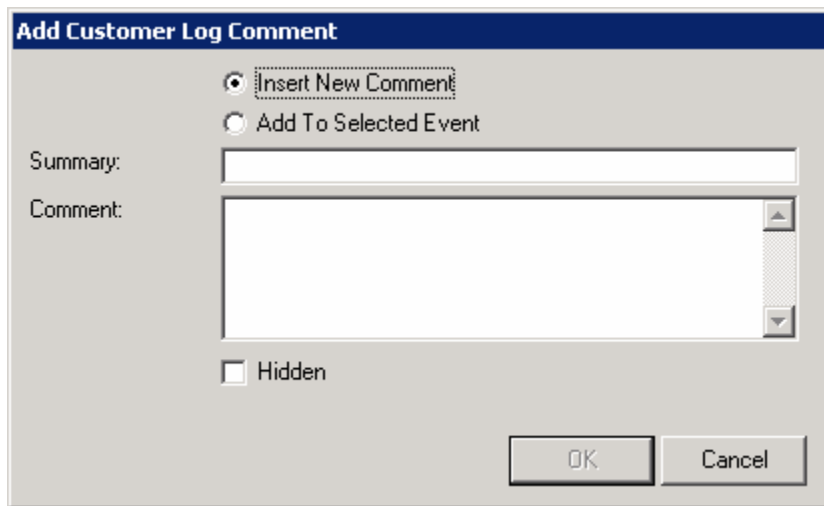
Standard View
Report Normal
Report Detail

Users may right-click on the Activity Log to select a view format - Standard, Report Normal or Report Detail. Selecting a view setting will also change the view settings of other forms that use the Activity Log grid, such as Manual Signal, Alarm form, and Customer form.

Log Date

The Log Date, which appears in the customer activity log, will hold the date that the alarm or signal event was added to the log. The Event Date is the effective date of the event. Details of an alarm event will have the same Event Date and be located physically in the same table as the alarm event, but the Log Date will show when the detail item actually occurred. For alarm and signal events, the Log Date will show when the event was processed.

1. To add a new comment, click on the Comment button. An Add Customer Log Comment box will appear:



Add Customer Log Comment

Insert New Comment
 Add To Selected Event

Summary:

Comment:

Hidden

OK Cancel

2. Select either Insert New Comment or Add to Selected Event. If adding a comment to a selected event, ensure the event is selected from the activity log by clicking on it to highlight the event.
3. Enter a brief summary of the comment.
4. Enter the actual comment into the Comment field.
5. If the comment should be hidden, check the Hidden box.
6. Click OK. The comment is now added to the Customer Activity Log.

View Details of a Comment

To view details of an activity, double-click on the comment. The Log Details screen will appear:

Log Details	
Log Record Details	
Item	Value
Serial No.	61
Log Sequence No.	115
Event No.	115
Record Type	Summary
Date/Time	06/29/2007 11:09
Event	ALARM (Manual) - Trouble Type 1 (TB1) A: 1 RL: 00 TX-ID: 0 Key: TB1
User Inits.	
User ID	
Manual Record	True
Event Type	Alarm
Source of Event	
Event Code	TB1
Raw No.	
Raw Data Code	
FEP Number	0
Receiver Number	0
Line Number	0
Key part of alarm	TB1
Original Area	
Original Zone	
Original Sensor No.	
Exit Sector No.	
Event Name	Trouble Type 1
Comms No	1
Area	1 - default
Zone	

Log Details Alarm Report OK

Depending on the type of activity, certain fields may or may not appear. Once the details have been viewed, click OK to return to the Customer Activity Log.

Refresh the Customer Activity Log



To refresh the log, simply click on the refresh icon.

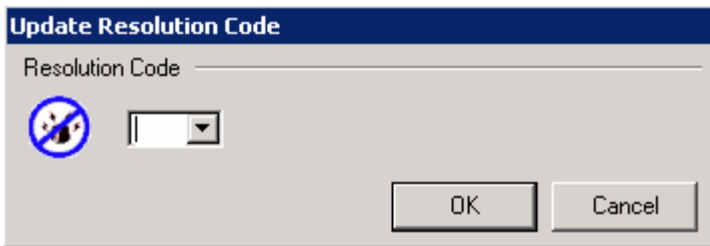
Filter the Log

1. Click on the Filter tab located at the bottom of the screen.
2. On the Filter screen, choose the search parameters to filter the logs. Logs may be filtered by:
 - Date and Time
 - Log Record Type
 - Standard Event Types
 - Associated Objects
 - Event Categories
 - Other (Transmitter, Area, Zone, etc.)

3. Once the parameters are set, click on the Search button.

Resolution Code

1. If an event appears in the Customer Activity Log that requires a resolution code, first highlight the event by clicking on it.
2. Click on the Resolution Code button. The Update Resolution Code box will appear:



3. Select the Resolution Code from the drop-down menu.
4. Click OK. The Customer Activity Log is now updated.

Maintenance Issues

The Maintenance Issues form is similar to the global Maintenance Issues form; however, only maintenance issues for the customer are displayed on the local Maintenance Issues form. Since only the customer's issues are displayed, the filtering tab is not needed.

Additionally, all resolved and unresolved issues are displayed. Adding, editing, and clearing of the issues is similar to the global form, but this functionality is locked out when editing the customer since the maintenance issues do not participate in locking scheme for the customer. when editing and saving an entity with outstanding maintenance issues, the operator is prompted for each issue to determine if it was resolved, and for the operator to resolve, purge or update the issue:

Maintenance Issue

Outstanding Maintenance Issue for Kailey Mohrman. Did you resolve this issue?

Kathy reported an issue with her panel.

Notes:

Problem was reported on 8/8/08.

Resolve Issue Resolve and Purge

Update Notes Take No Action

Note: Maintenance lists may be sorted with the exception of the Description and Notes columns.

Access Control

Modules

Modules in Manitou correspond to the physical modules that are installed at the customer's site. Three types of modules are available: the V100 access module, V200 input module, and the V300 output module. The modules added to Manitou must match the information collected during the customer hardware installation on the data collection worksheet.

1. Select Modules in the Access Control section of the Jump To menu.
2. Click Edit and then click Add to add a new module.
3. Enter the Module Number. This number must match the address set during the hardware installation or the module will not function.
4. Enter a description for the module, select the appropriate module type from the Type drop-down menu, and then click OK.

5. Type the file name of the EEPROM firmware in Parameter 1. The correct file name depends on the revision of the software loaded on the VertX access controller. File names can be found in Appendix A, Software Compatibility Chart.
6. Type “38400” in Parameter 2.
7. Repeat steps 1 through 6 for each module.

Reader Groups

Card readers can be grouped to allow for different levels of access. For example, a business may give everyone access to the exterior doors but limit access to an interior office. Create as many groups as you need to provide the different levels of access that you want.

1. Select Reader Groups from the Jump To menu.
2. Click Add to add a new reader group.
3. Enter the next available reader group number in Reader Group. Begin with the number one.
4. Enter a description for the group and then click OK.
5. Repeat steps 1 through 3 for each reader group.

Readers

Each card reader must be defined in Manitou. Reader configuration specifies the type of hardware and the access method used.

Readers form

Readers

Transmitter No: VertX

Add Remove

1 - VertX

Reader No: 1

Description: VertX

Module: VertX

Port: 1 Device Id: 2

Accepts PIN Cmds

Host Authorized

Access Method: Open Door

Anti-Passback Type: Off

Entry Sector: East Door

Exit Sector: East Door

Device:

Reverse Route: IP Receiver Default

Reader Group
▶ Vertx

Reverse Command	Description
▶ Reader Green LED	

1. Select **Readers** from the **Jump To** menu.
2. Click **Add** to add a new reader in the **Add Reader** dialog box.
3. Enter the next available reader number in **Reader No.** Begin with the number one.
4. Enter a description for the reader.
5. Choose the module that the reader is connected to from the **Module** drop-down menu.
6. Enter the port number that the reader is connected to in **Port**. The left side port is number 0 and number 1 is on the right.
7. If this reader is copying from another reader, select the appropriate reader from the Copy From menu.

8. Click OK
9. Back at the main form, choose an **Access Method** from the drop-down menu.
 - a. None – reader is disabled
 - b. Open Door – users can gain access without a card or pin
 - c. Card Only – users can gain access by presenting a valid card, a PIN is ignored
 - d. PIN Only – users can gain access by keying in a valid pin, a card is ignored
 - e. Card and PIN Required – user can gain access by presenting a card *and* keying in the associated pin
 - f. Card or PIN Allowed – user can gain access by presenting a card *or* keying in the associated pin
10. Select whether the Anti-Passback Type is Off, Timed, or Real.
11. Select the Entry and Exit Sector if applicable. Sectors are set up in the Systems section of the customer form.
12. Select a Device from the drop-down list if applicable.
13. Select a Reverse Route from the Reverse Route drop-down list.
14. In the Reader Group section, select a Reader Group for the Reader. A Reader must belong to a reader group before the function will enable.
15. Select a Reverse Command from the drop-down list if applicable.
16. Repeat steps 1 through 9 for each reader. Users may copy a reader that has already been configured by choosing it in the **Copy From** drop-down menu in the **Add Reader** dialog box.

Elevator Access Groups

Elevator Access Groups allow or disallow access to certain floors in a building. When an Elevator Access Group is created, users can give access to a card holder by selecting the access group from the Elevator In-Sched Group and Elevator Out-Sched Group drop-down menus in the Access Control Cards tab under the Contact List form.

The screenshot displays the 'Access Control Cards' interface. At the top, there is a table with columns for 'Card', 'Transmitter', 'Card Set', and 'PIN'. Below the table are 'Add' and 'Remove' buttons. The main form contains several fields: 'Card Number', 'Transmitter', 'Card Set' (dropdown), 'Card ID', 'Access Type' (dropdown), 'PIN' (text input), 'Reuse time' (spinner), and 'Escort Card' (dropdown). Below these are 'Access Levels' and two dropdown menus: 'Elevator In-Sched Group' and 'Elevator Out-Sched Group', both of which are circled in red. There are also three checkboxes: 'Pin Cnds Allowed', 'Extended Access', and 'Passback Allowed'. At the bottom, the 'Access Card Lookup' section has 'Add', 'Remove', and 'Convert' buttons, with a 'Raw Hex Number' text input field. A red circle highlights the 'Add' button in this section. A vertical toolbar on the right side of the window contains several icons, including a document icon that is also circled in red.

To add an Elevator Access Group, simply click on the Add button to name the group. This group will then appear in the Eleve

Elevator Groups

Elevator Groups allow access to certain areas once a specific floor is reached based on the restrictions given, as well as contains details describing the physical relays in the group.

Elevator Groups

Transmitter No: VertX

Add Remove

1 - Floor 1

Elevator Group Number: 1

Description: Floor 1

	Module	Relay No.	Button Description	Elevator Access Group
*				

Once an Elevator Group is initially added, the following details may be entered:

- **Module No:** The module number the elevator group detail (relay) is on
- **Relay No:** The relay number on the module
- **Button Description:** A brief description of the button
- **Elevator Access Group:** The Access Group the elevator group belongs to

Holiday Groups

Holiday Groups are a useful way to set up groups that may be allowed special access to an area or building during holidays.

	Month	Day	Year
✎	Dec	25	▼
*			

Once the initial holiday group is created, the following details must be added:

- Month - the month in which the holiday occurs
- Day - the day of the month which the holiday occurs
- Year - the year in which the holiday occurs (optional). If the year is left empty, then the holiday occurs on the same day every year (such as December 25th). For holidays with floating dates (such as Labor Day), then a year must be entered for every year the holiday is to be observed.

Access Levels

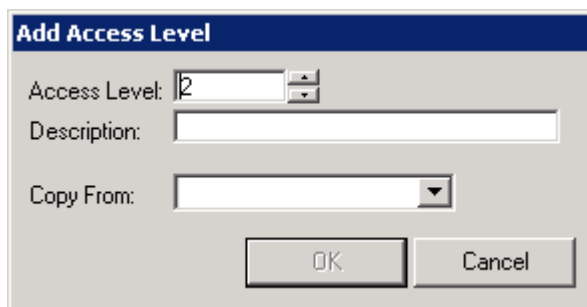
An access level is the combination of a schedule and a reader group. It determines the times of day and days of week that a particular set of readers will grant access. The first step in creating an access level is to create the schedule. Access control schedules are entered as General Schedules on the customer.

1. Click on Back in the Jump To menu to return to the main menu.
2. Select General Schedules from the Jump To menu.
3. Click Add to add a new general schedule.
4. Enter the next available schedule number in Code. Access control schedule codes must be numeric and should begin with the number one.
5. Enter a description for the schedule.
6. Select “Access Control” from the Type drop-down menu and then click OK.

7. Check the days of week during which access will be granted.
8. Type the time in 24-hour format that access will begin and end in Start 1 and End 1. Two ranges of time may be entered for each set of days. If the time range varies on different days you may add as many lines as necessary (Figure 12) to create your schedule.
9. Repeat steps 1 through 8 for each schedule.

Access Levels can be created now that the schedules and reader groups have been defined.

1. Click **Access Control** on the **Jump To** menu to return the access control configuration.
2. Select **Access Levels** from the **Jump To** menu.
3. Click **Add** to add a new Access Level. An Add Access Level box will appear:

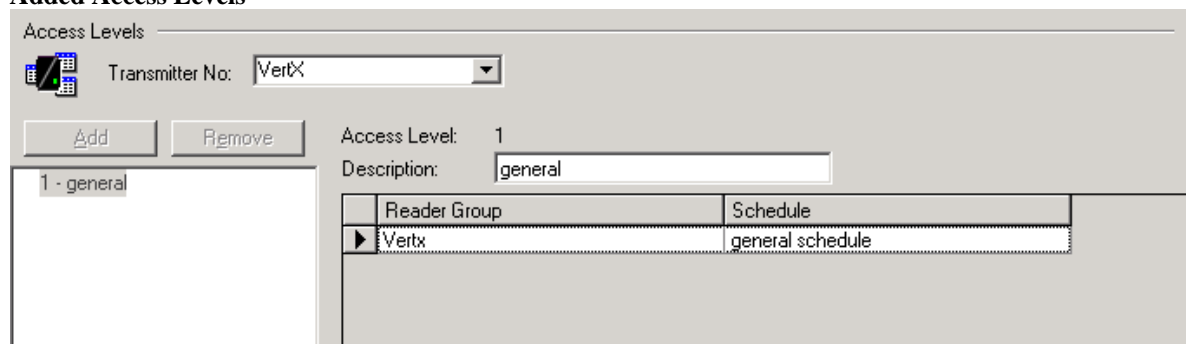


The 'Add Access Level' dialog box contains the following fields and controls:

- Access Level:** A numeric input field with the value '2' and up/down arrow buttons.
- Description:** A text input field.
- Copy From:** A dropdown menu.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom.

4. Enter the next available Access Level number in Access Level. The first level should begin with the number one.
5. Enter a description for the Access Level and then click OK.
6. Select a Reader Group that will be granted access under Reader Group. Select the schedule that will determine when access is granted under Schedule. Repeat this step for each combination of Reader Group and schedule that make up this Access Level.

Added Access Levels



The 'Added Access Levels' window displays the configuration for an access level. It includes:

- Transmitter No:** A dropdown menu set to 'VertX'.
- Buttons:** 'Add' and 'Remove' buttons.
- Access Level:** A label with the value '1'.
- Description:** A text input field containing 'general'.
- Table:** A table with two columns: 'Reader Group' and 'Schedule'.

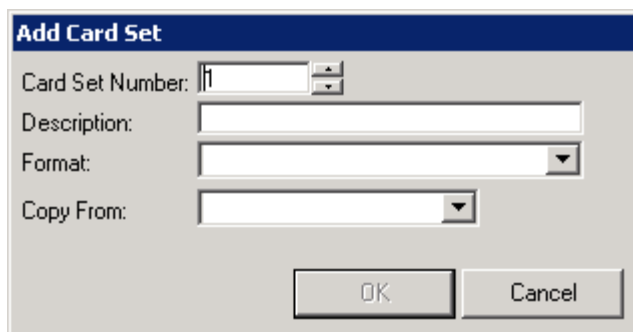
Reader Group	Schedule
Vertx	general schedule
- Left Panel:** A list box containing '1 - general'.

7. Repeat steps 1 through 6 for each Access Level.

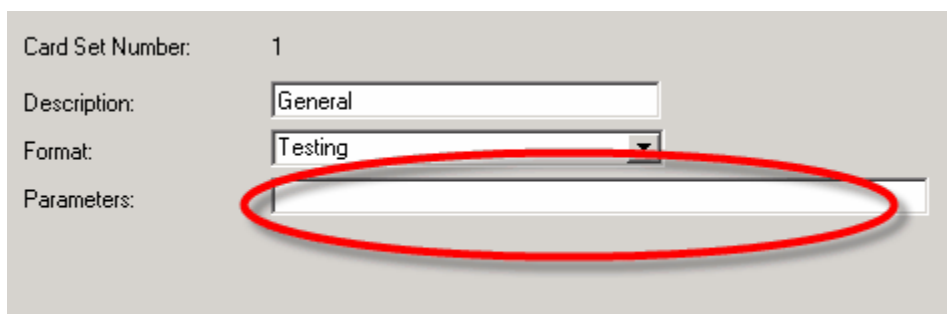
Card Sets

Card sets define the format for a group of cards. The format of the card determines how information is stored on the card. Add a card set of each type of card that will be used.

1. Select Card Sets from the Jump To menu.
2. Click Add to add a new Card Set. An Add Card Set box will appear:



3. Enter the next available Card Set number in Card Set Number. The first Card Set should start with the number one.
4. Enter a description for the Card Set.
5. Select the proper card format from the Format drop-down menu and click OK. Card formats are loaded in Manitou by Bold Technologies. If a card format is not listed, contact Manitou technical support.
6. Click OK.
7. Back at the Card Set screen, enter the parameters into the parameters field:



Each format may have up to eight fields, A-H, of additional information. The information in

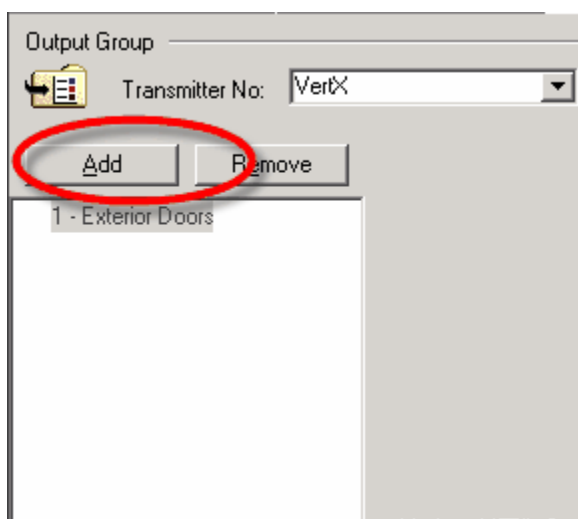
these fields must be defined in the Card Set for the VertX access controller to properly read the cards. For example, SIA 26 bit cards contain an 8 bit facility code. The facility code is stored in the first field. It is entered in Parameters as “A:XX” (field name followed by a colon followed by the value of the field) where XX is the facility code.

8. When finished, click Save.
9. Repeat steps 1 through 6 for each Card Set.

Output Groups

Output Groups provide a way to group multiple commands together so that they can be actioned as a single command. In other words, users can add several commands to a single access control point that will tell the system what command to perform in the event of a specific function. For example, if the function is to grant access to Door 1, the action will initiate granted access. However, if the function is deny access to Door 1, the action will initiate denied access.

1. Add an Output Group ID by first clicking on the Edit button to put the screen in Edit mode.
2. Click on the Add button located under the Transmitter No.



3. In the Add Output ID box, select the Output Group ID number from the scroll window.
4. Enter brief description of the Output Group ID into the Description field (e.g. Exterior Doors).
5. Click OK.
6. Back at the main Output Group ID screen, ensure the appropriate Output Group ID is

selected from the list by clicking on it.

7. Click on the Add New button to bring up the Add/Update Output Group ID Detail box:

8. Select the Module from the drop-down menu. This is the module that the function will execute on.

9. Select the Function Code. This is the function that should be performed, such as Reader 1 beeper.

10. Select the State. The available state options will vary based on function previously selected.

11. Click OK. The command has now been added:


Module	Device	Function	Action
VertX		Door 1 Grant Access	Initiate Grant Access
VertX		Door 1 Forced Alarm Enable	Enable
VertX		Door 1 Deny Access	Initiate Deny Access

Field Descriptions

- Module – the module to execute the function on.
- Device – text description of the device the function will act against (if set up and associated)

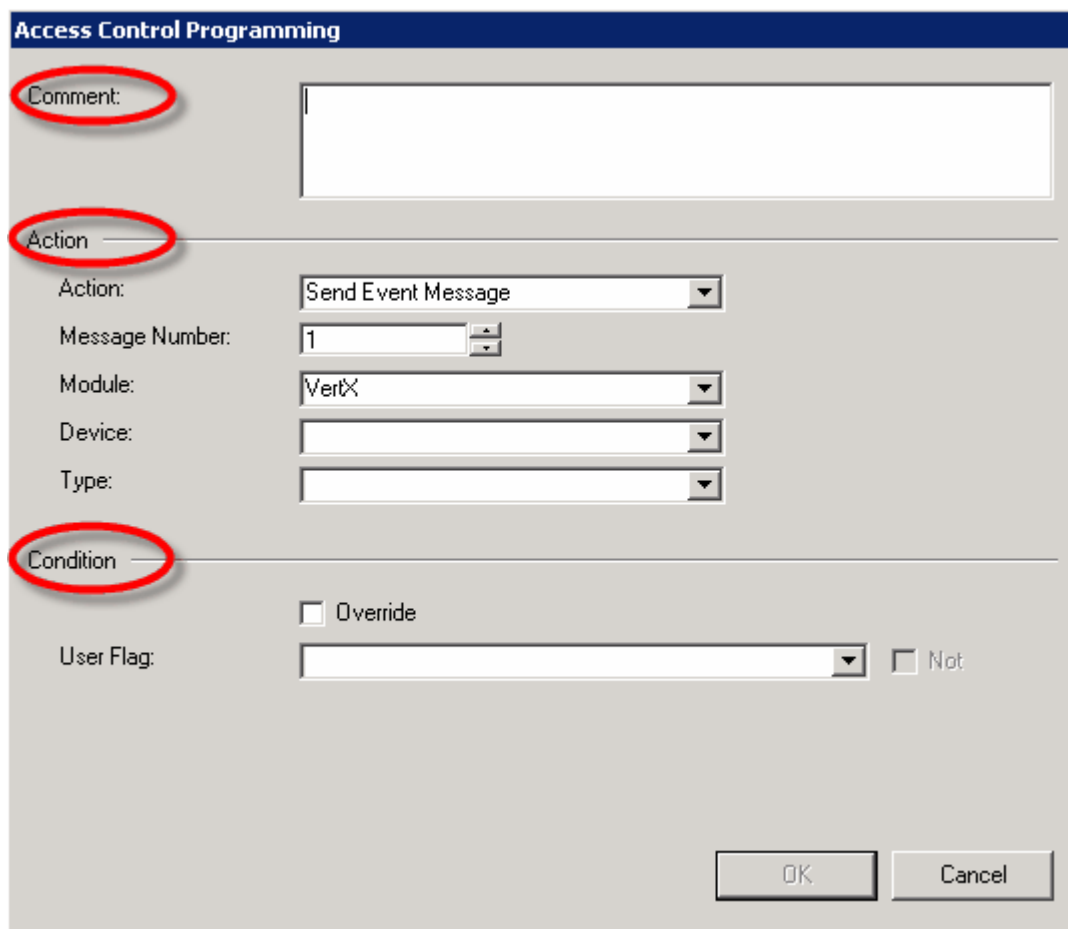
in the Device configuration).

- Function – what function to perform (i.e., Door 1 Strike Relay).
- Action – what action to perform on the function (i.e., turn relay on).

Users can move the position of the commands by selecting a command and clicking on the up/down arrows. Commands can also be deleted by highlighting the command and clicking on the  button.

Programs

Programs provide the ability to create messages or drive outputs based on condition changes, schedules, or timers. Each program item consists of three parts:



Access Control Programming

Comment: [Text Area]

Action:

Action: Send Event Message

Message Number: 1

Module: VertX

Device: [Dropdown]

Type: [Dropdown]

Condition:

Override

User Flag: [Dropdown] Not

OK Cancel

- **Comment** - a brief description of the program line's function
- **Action** - any of the following actions that can occur:
 - Drive Output - drives an output, such as changes to a relay state
 - Drive Output Momentary - momentarily drives an output
 - Drive Output Group - runs an output group
 - Send Event Message - creates a message

- Set Timer - create a timer so it can be used in subsequent rules
- Set Logical Bit - set the value of a logical input so it can be used in subsequent rules
- **Condition** - conditions that trigger the action, such as:
 - Drive Output, Drive Output Momentary, Drive Output Group and Send Event Message can only be triggered by a Logical bit (unless overridden);
 - Set Timer can be triggered by an Input (e.g. sensor) or by a schedule; and
 - Logical Bits can be triggered by an Input, Schedule or Timer.

Card Status

This section has not yet been documented.

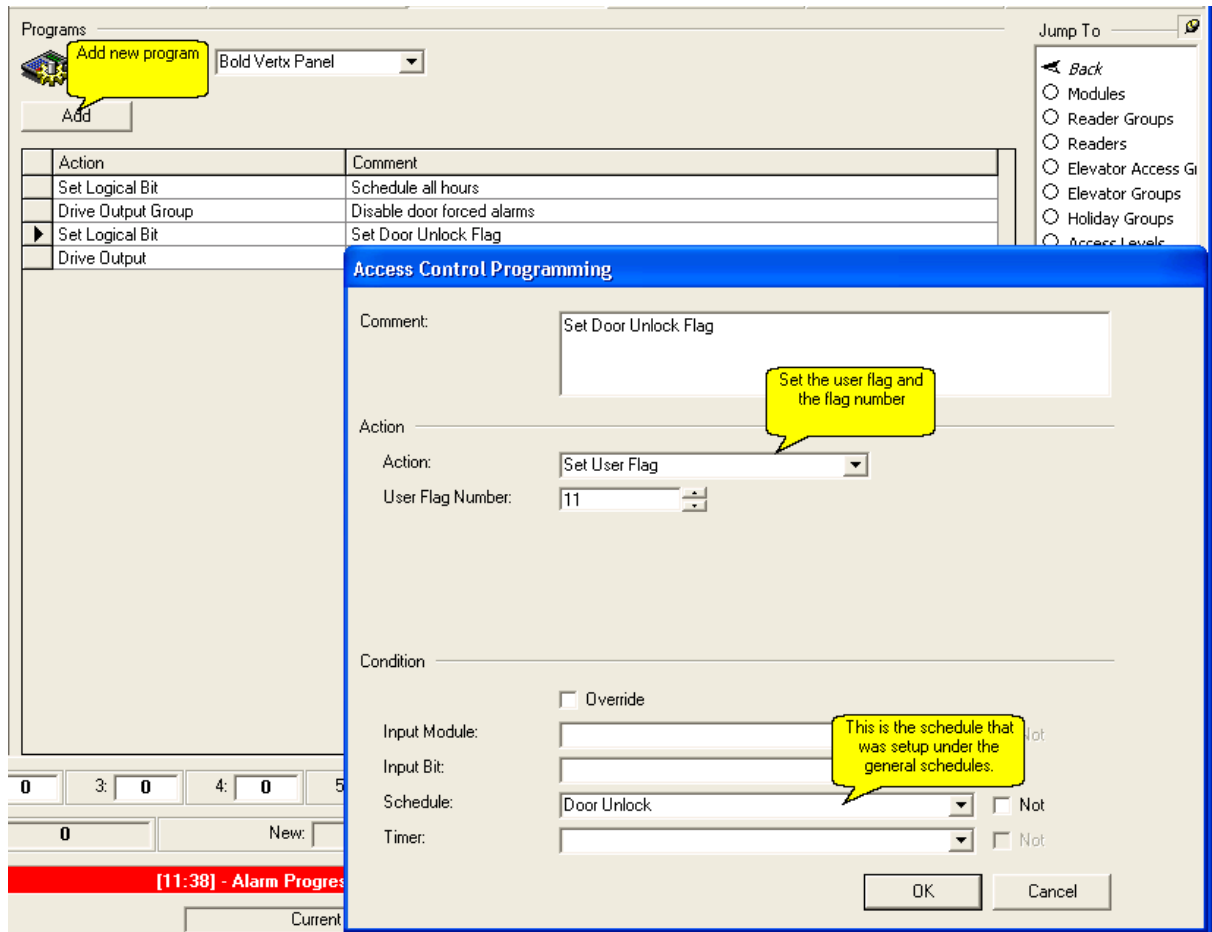
Unlocking doors based on a schedule using Access Control

Create a General Schedule with a numeric name, and type of Access Control. The schedule should be based upon when the door should remain open. Tip – if you create a schedule the door will remain open until the last minute has finished. In other words, if the schedule ends at 17:00, the door will remain open until 17:01.

Access the Output Groups option from the Jump To menu (under Access Control) and setup a new output group to unlock the doors. The user will need to add the output group first and then add the modules that need to be controlled. In the example below, the user has set the west front door strike relay to be on. This depends on how the system has been configured.

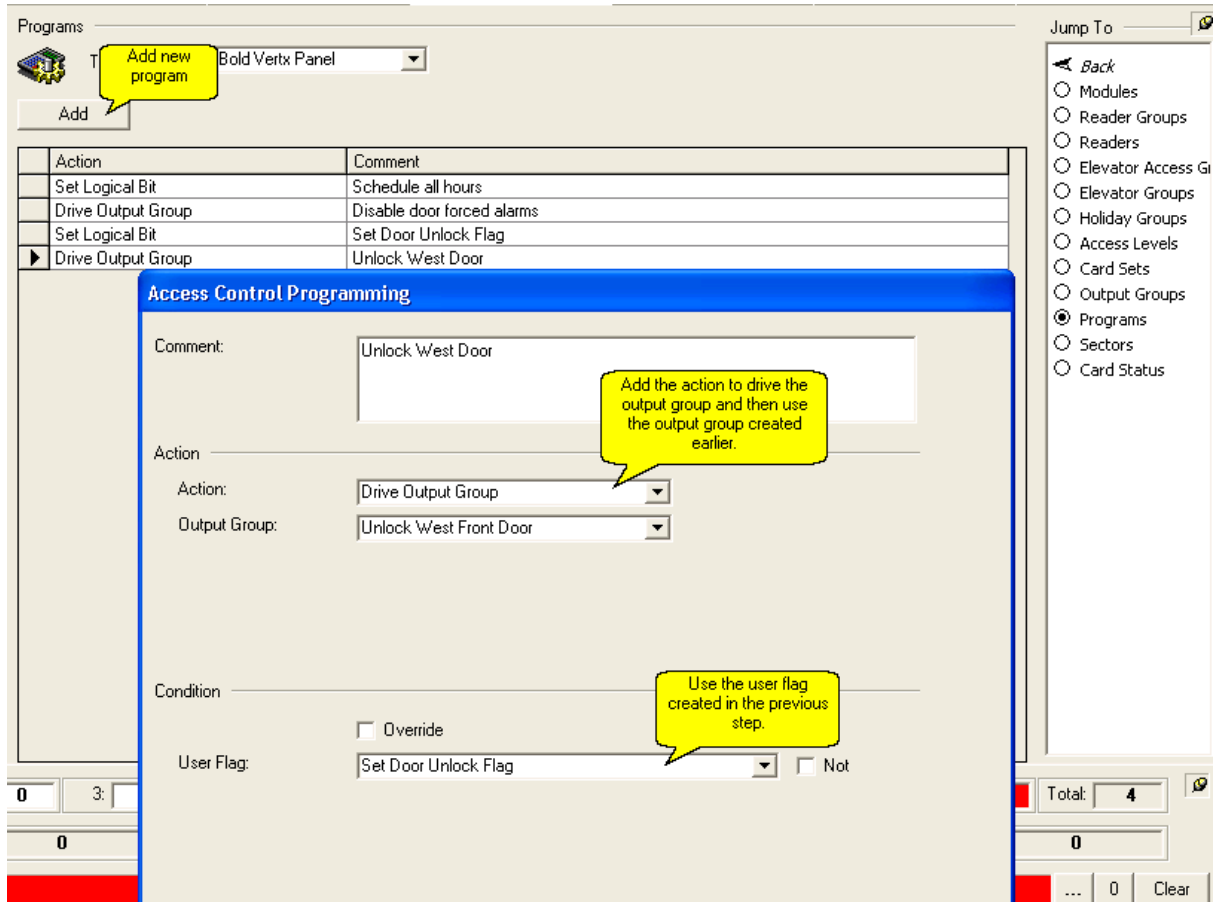
The screenshot displays the 'Output Group' configuration window. The 'Jump To' menu on the right includes options like Back, Modules, Reader Groups, Readers, Elevator Access G, Elevator Groups, Elevator Levels, Card Sets, Output Groups (selected), Programs, Sectors, and Card Status. The main window shows a list of output groups with two items: '1 - Disable door alarms' and '2 - Unlock West Front Door'. A yellow callout box points to the 'Add' button with the text 'Step 1. Add new group'. Below the list, there are 'Add New' and 'Edit Selected' buttons. A table below shows the configuration for the selected group: 'West Front ...' with 'Door 1 Strike Relay' as the function and 'Turn Relay On' as the action. A yellow callout box points to the 'Output Groups Option' in the 'Jump To' menu. A dialog box titled 'Add/Update Output Group Detail' is open, showing fields for 'Module' (West Front Door), 'Function Code' (Door 1 Strike Relay), and 'State' (Turn Relay On). The dialog box has 'OK' and 'Cancel' buttons.

Access the Programs option from the Jump To menu, then program a logical bit (set a variable) based upon the schedule created in the beginning by setting the Action to “Set User Flag” and setting a User Flag Number. In this example, the user has used 11 only because there was one setup for a separate process already. This flag is then based on the schedule that the user set up earlier called “Door Unlock”



Access the Programs option from the Jump To menu. The user will now create a program based on the logical bit to use the output group that was created earlier.

Add a new program. Set the Action to Drive Output Group. Set the output Group to the group created earlier and set the User Flag to the flag created earlier as well.



Once the program has been downloaded to the panel, the doors should now unlock.

Deleted Customers

The **Deleted Customers** form displays customers that have recently been deleted from the Manitou system but have not yet been purged from the database. The function also enables the Operator to view and filter the deleted customer's logs.


The screenshot shows a web application interface for "Customer Deletions". At the top left is a red 'X' icon. Below it are search filters: "Date From:" with a dropdown menu showing "05/04/2007", "Date To:" with a dropdown menu showing "06/04/2007", and "Customer ID (Optional):" with an empty text input field. A "Search" button is located below these filters. On the left side, there is a list of customer entries: "0101 - Matt B", "01-01-3456 - Safe Harbour", and "01-02-1234 - Safe Harbour". The "Details" section on the right contains the following fields: "Deleted:" (05/11/2007 13:40), "User Initials:" (GMB), "Customer ID:" (0101), "Name:" (Matt B), "Dealer:" (empty), "Branch:" (empty), "Country:" (United States of America), "Language:" (English (United States)), "Timezone:" (Mountain Time (US & Canada)), "Delete Code:" (-1), and "Reason:" (empty).

The Deleted Customers form is divided into three sections: Details, Logs, and Filter. Each section may be selected from the appropriate tabs at the bottom of the Deleted Customers form.

Details

The **Details Page** is automatically loaded when the Deleted Customers form is selected. This page consists of a date range area with an optional Customer ID field and a Search button. By entering search parameters, users may find specific deleted customers within a date range or by Customer ID. Once the search is completed, a list of customers will appear in the Deleted Customer list located to the left of the form.

Customer Deletions


 Date From: Date To: Customer ID (Optional):

Customer List

- 0101 - Matt B
- 01-01-3456 - Safe Harbour
- 01-02-1234 - Safe Harbour

Details

Deleted: **Customer Details**

User Initials:

Customer ID:

Name:

Dealer:

Branch:

Country:

Language:

Timezone:

Delete Code:

Reason:

Select a customer from the Deleted Customer list. The customer's information will be displayed in the fields to the right of the list.

Logs

The **Logs** form displays the customer logs pertaining to the particular customer selected on the details form. This information is complete up until the time the customer was deleted. The deleted customer's log is stored in order to comply with UL standards and will remain in the system until the record is purged.

Users may add a comment to the deleted customer's log. To add a comment, click on the comment button and enter the details in the dialog box.

Filter

Users can filter through the Deleted Customers list by clicking on the Filter Tab and entering search parameters. Users can filter deleted customers by:

- Date and Time
- Log Record Type
- Standard Event Type
- Associated Objects
- Event Categories
- Other (Transmitter, Point ID, User Initials, etc.)

The screenshot shows a search filter form with the following sections:

- Date and Time:** Date From: 05/29/2007, Date To: 06/29/2007, Time: 00:00:00 to 23:59:00. Includes checkboxes for Reverse and Time Range, and a Time Zone dropdown set to Mountain Time (US & Canada).
- Log Record Type:** A list of checkboxes including Signal, Alarm, Viewed, Action, Response, Reverse Command, Confirmation, Signal Ignored, and Caller ID Info.
- Standard Event Types:** A list of checkboxes for event codes: ** (Unknown Event), *1 (GSM Link Fail), *2 (GSM No Response), *3 (Land Line Link Fail), *4 (Land Line No Res...), *5 (GSM Resp OK), *6 (Land Line Resp OK), and *7 (GSM Remote Lin...).
- Associated Objects:** A list of checkboxes for object types: Video, Audio, Finger Print, Eye Scan, and Picture/Photograph.
- Event Categories:** A list of checkboxes for category codes: ACCESS (Access Alarms), BURG (Burglary), EMERG (Emergency), ENV (Environmental Al...), FIRE (Fire Alarm), GEN (General Alarms), HOLDUP (Holdup / Person...), MEDIC... (Medical Alarms), NETAL... (Network Alarm), and OPEN (Open / Close).
- Other:** Fields for Transmitter, Area, Zone, Receiver Line Prefix, Transmitter ID, Resolution Code, Event Source, Point ID, User Initials, and Original Event Code. Includes checkboxes for Policed, False Alarms, and Except, and a Display Format dropdown set to Standard View.

Once the parameters are entered, click Search to filter the deleted customers. Customers that meet the filter parameters will be displayed on the main Deleted Customers screen.

Dealer

The **Dealer** form allows the user to create and maintain a database of Dealers that the Central Station may need to contact or call out in the event of an alarm or other emergency. Dealers, once created, may also be added to action patterns and call lists as needed. Deleting an inactive dealer will provide a dialog to delete all customers of the dealer as well as the dealer itself.

To Find an Existing Dealer Record

1. On the Dealer form, click the magnifier button to the right of the Dealer ID field. This will bring up the Find Dealer window.

Dealer

Dealer ID:

Name:

Master Dealer:

Use Master

Address

Street :

Street :

City:

State: Zip:

Country: A/R Company:

Language: A/R Number:

Time Zone:

Contact

Site:

Home:

Business:

Mobile:

E-mail

E-Mail:

Web

Web Address:

2. Type an '*' in the value field adjacent to the Dealer ID field and then click the **Search** button.

3. Choose the record that you wish to view and then click **Load**.

The selected record will now be displayed.

Note: When the Use Master box is checked on a sub-dealer's master file, the Master dealer's name and address information is displayed on the alarm screen for accounts that belong to the sub-dealer.

Create a Dealer Record

1. Select Dealer from the Operations menu.
2. Click on the New button located at the top of the screen. An Add Dealer box will appear:

Add Dealer.

Contract No:

Name:

Country:

Language:

Time Zone:

3. Enter a unique Contract ID into the Contract ID field. Dealer IDs are specific to Central Station standards.
4. Enter the Name of the Dealer into the Name field.
5. Select the Country, Language and Time zone from the drop-down menus.
6. Click OK.
7. Back at the main screen, enter the address, city, state and zip code into the appropriate fields.
8. Enter the phone numbers into the appropriate fields.
9. Enter an e-mail address if applicable.
10. Enter a Web address if applicable.

Dealer Options

1. Click the Options Tab and put the screen in Edit mode.
2. If Customers are allowed to take jobs on test, click the check box. This would allow the customer to be able to put their account on test in the event that the customer would like to test their service.
3. Click the drop-down arrow to the right of the Engineer Security Level field and select the applicable level.
4. Click the drop-down arrow to the right of the Monitoring Group field and select the applicable group.
5. Review each item for accuracy.

- Click Save or click on another tab to continue editing this Dealer record.

Dealer Options

Allow Customers to take jobs out of service?

Engineer Security Level:

Monitoring Group:

Time Format

Dealer Contact List

The **Dealer Contact List** contains contact information for Dealers and contacts alike. Most entries will be made under Contacts.

Contacts
 Todd Matthews
 Dealer Email
 Jim Burns
 Shaun Blair
 Dealers

...

Permissions suspended
 Can cancel Alarm
 Can authorize a schedule change
 Can put system Out of Service
 Can put designated Area Out of Service
 Can edit Customer
 Can give out Customer information

To:
 To:

- On the Main Contact List screen, put the screen into Edit mode by clicking on the Edit button.

2. Click on the Add button. An Add keyholder window will appear:

Add Keyholder

Keyholder Global Keyholder



Name:


Country:


Language:


Time Zone:

Contact

 Site 

Home 

Business 

Mobile 

OK Cancel

3. Select whether the contact is a Keyholder or Global Keyholder.

4. Enter the name of the contact into the Name field.

5. Select the Country, Language, and Time Zone of the contact.

6. Enter the Contact's site, home, business and/or mobile phone numbers.

7. Click OK.

8. Back at the main screen, enter a title and/or suffix for the contact.

9. Enter the Job Title of the contact into the Job Title field.

10. Select the birthday of the contact from the calendar.

11. To add a picture to the contact, right click on the gray box located next to the Contact's information. Select Find, and choose a picture file.

12. Select the Access permissions for this Dealer in the Access box.

13. Enter a Password, Web Access ID and/or VRT ID into the appropriate fields.

14. Enter a maximum amount of test time a Dealer may put an account on test.

15. If applicable, click or tab into the Valid To field and use the drop-down arrow to select a

date from the calendar.

16. If the Contact will be inactive for a period of time, indicate that with the Inactive From and Inactive To fields. Use the drop-down arrows to select dates from the calendar for each field.


Contact Information Tab

1. Click the House tab on the right side of the Application view.
2. Use the drop-down arrow located to the left of the top telephone number field to select a telephone number type from the list.
3. Click the notepad icon to the left of the first telephone number field and select Properties.
4. Enter the area code, phone number and extension (if applicable) into the fields available.
5. Use the drop-down arrow to the right of the Email label to select the Email address to enter (Email, Email 2 or Email 3).
6. Click into the E-mail address field and type in the entire Email address.
7. Repeat the above three steps for up to three Email addresses.
8. Tab or click into the Web Address field. Manitou automatically copies the text after the @ symbol in the Email address and adds 'www' to auto-fill the Web address. By default the Web address is highlighted for removal or overwriting. If there is no Web address delete that entry. If a different URL is necessary, enter the correct Web address.
9. Use the drop-down arrow to the left of the "This is the Mailing Address" title, to select an address type.
10. Click or Tab into the Street 1 field and enter the first line of address information for this Contact
11. Click or Tab into the Street 2 field and enter any additional address or suite information.
12. Click or Tab into the City field and enter the City/County name.
13. Click or Tab into the State field and use the drop-down arrow to the right of the State field to select the applicable state.
14. Click or Tab into the Zip code field and enter the Zip code.
15. Check the checkbox if the address is also the mailing address.
16. Move on to the Notes tab.

Notes Tab

1. Click the Note Pad Tab on the right of the Application View to open the Notes screen.
2. Enter any notes that pertain to the Contact.
3. Save the record or click on another tab to enter more Monitoring Company information.

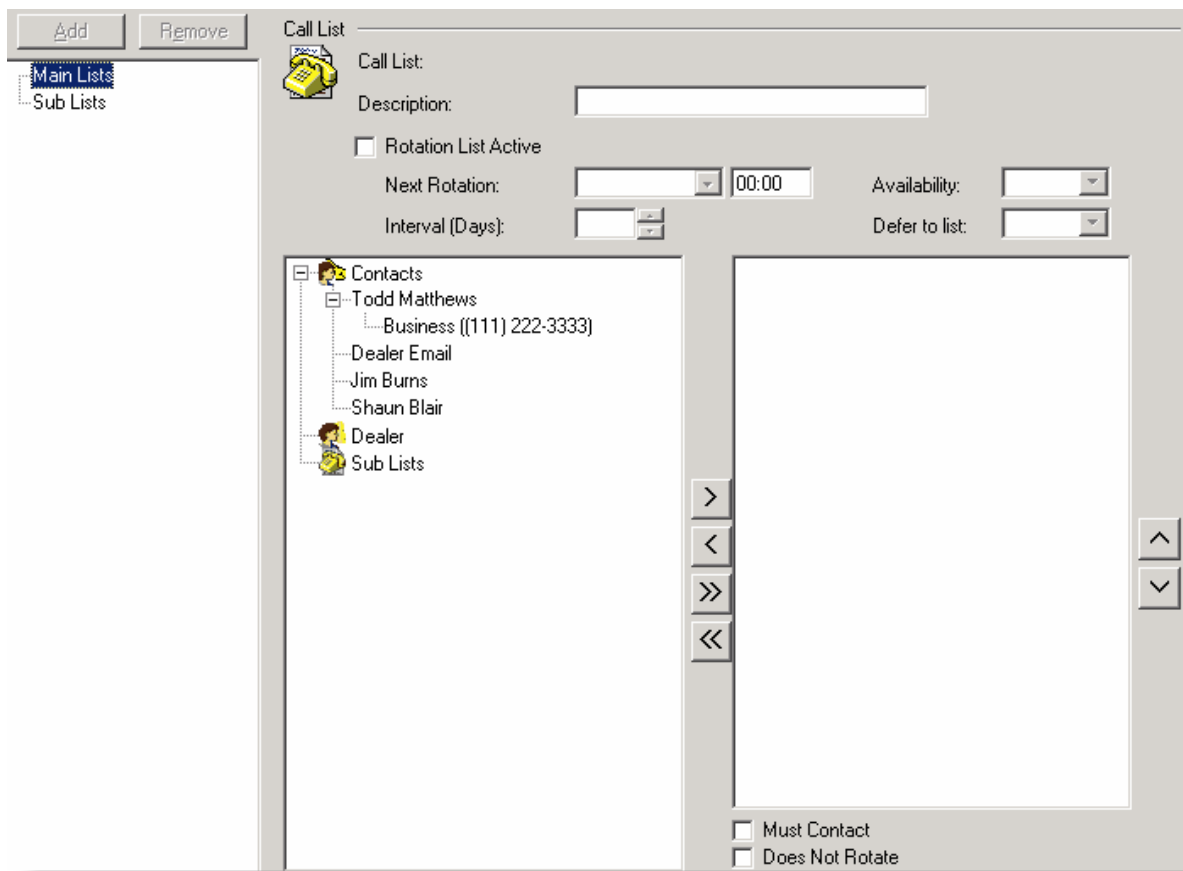
Add a secondary Dealer associated with the Main Dealer record

1. Click the Dealer in the Contact List navigator.
2. Click the Add button above the Contact List.
3. In the Add Dealer window enter the Dealer Contract Number OR use the Search button  to find the Dealer. The Name will auto-fill based on the Contract No..
4. Verify the selection is correct then click OK.
5. Set the Valid and Inactive dates using the drop-down arrow to the right of the field to select dates from the calendar.
6. Click the House tab to the right of the Application View.
7. All information should be defaulted into their applicable fields. Most of the Dealer Contact record is not editable because it is a pre-existing record. If changes need to be made they should be made to the dealer record itself - not through this Contact interface.
8. Click the Notepad tab to the right of the Application View.
9. Enter any Notes about this Dealer Contact as pertaining to the Dealer record.
10. Review all additions to ensure the accuracy of the information added, click Save, enter any notes if necessary and click OK.
11. Alternately, click on another tab to continue editing this Dealer record.

Dealer Call Lists

Call Lists for Dealers contain the details of all the people requiring contact for a given alarm type. Rotation lists are often in place to ensure that one Keyholder is not the only Keyholder contacted each time there is an alarm. Call Lists are lists of contact, grouped and ordered based on alarm-types and priority.


1. Select Call Lists from the Dealer Jump To menu. The Call List screen will appear:



2. Click on the Add button. An Add Call List window will appear:

Add Call Lists

Call List

 Name:


Description:

Type:

Member Matrix

Display Contact Points

Call List Members	
Type	Contacts
▶ Keyholder	Betty Ford

3. Enter a four-character code in the Name field.
4. Enter a brief description into the Description field.
5. Select Main List or Sub List from the Type drop-down menu. Main Lists may contain other call lists while Sub Lists cannot include other call lists.
6. Click on Add to Matrix.
7. Click OK.
8. If the list is a Main Call List, select Main. If it is a Sub List of a Main list, select Sub List.
9. Click Add to Matrix. The Call List will be added to the Customer's account.
10. Click OK.
11. Back at the Call List form, select the item or items from the Contacts list that should appear in the Call List. Contacts appearing in the list should be previously added in the Contacts form of the customer record.
12. Move the Contacts over to the Call List by clicking on . The Contacts will now appear in the Call List.

Note: Clicking on the contact's phone number or e-mail address and adding it to the Call List will only add that specific number or e-mail to the Call List. Select the contact's name and adding it to the Call List will add all contacts available for that Contact (varying phone numbers, e-mail, fax, etc.) Select only the specific phone number to add to the list if only one number should be contacted. If all forms of contact should be used, select the Contact's name, and add it to the list.

13. Move list items up and down based on priority by clicking on the up/down arrows to the right of the Call List.
14. If the Call List rotates, check the Rotation List Active checkbox. The contact at the top of the list will automatically be the head of the list, indicated by an icon that appears when the Rotation List Active checkbox is checked. This contact will be first in rotation.
15. Indicate the Next Rotation date by selecting the correct date from the calendar. The start date defaults to the current day.
16. Set the rotation interval by clicking on the up/down arrows to set the number of days each rotation is active before rotating. For example, if it is set to 1, the list will rotate every day.
17. If a Contact on the list is a Must Contact or Does not Rotate, select the appropriate Contact and check the applicable boxes. If "Does Not Rotate" is selected, the person must be contacted regardless of the rotating schedule.
18. Once all contacts are added, click Save.

Dealer Attentions

Dealer Attentions are used for the sole purpose of printing and mailing paper copies of reports run through Manitou. If an Attention is entered, Manitou will print that attention prior to printing out the physical address of the recipient.

Attention Type	Contact
Mailing	
Invoice	
Shipping	
Reporting	

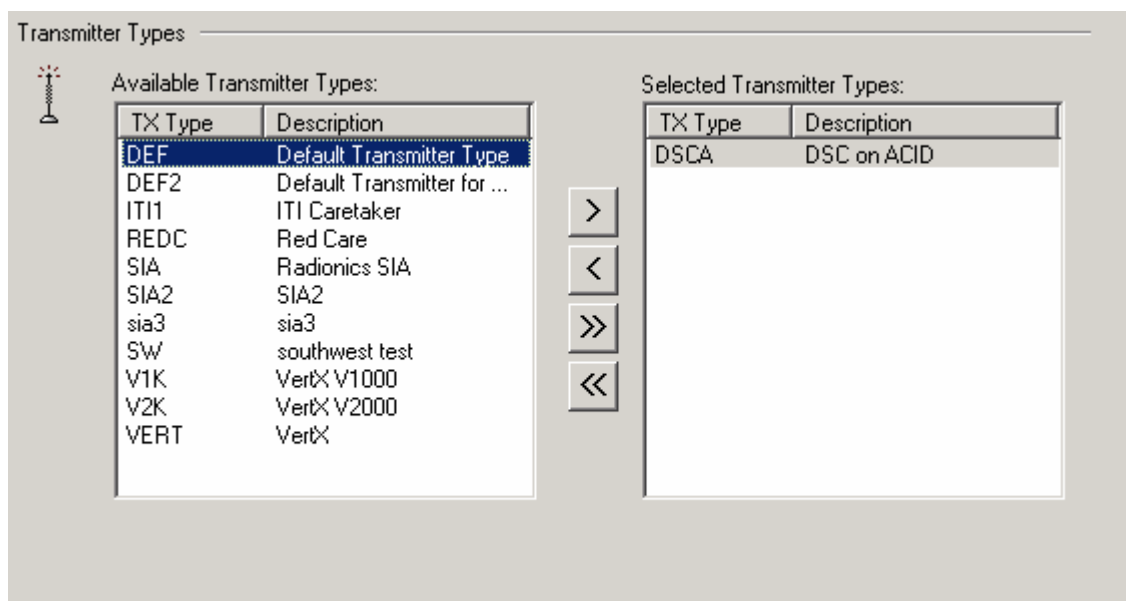
1. Enter an attention into the appropriate field by first clicking on the Edit button to put the screen into edit mode.
2. Click in the appropriate field.
3. Select the contact from the drop-down menu. (Note: For Contacts to appear, they must first be entered into the Contact List).

4. Click Save.

Dealer TX Types

The **Dealer Transmitter Types** tab allows the selection and removal of all Transmitters the Dealer services. The list under Available Transmitters displays all of the Transmitters entered into Manitou.

1. With the screen in Edit mode click the Transmitter tab, located at the bottom of the Application View. The Dealer Transmitters screen displays two columns. The *Available* Transmitters are on the left and the *Selected* Transmitters are on the right.



2. To add to the list of this Dealer's Selected Transmitters, click to highlight one in the Available Transmitters list in the left column and click either the ">" to move one at a time, or the ">>" to move all the control panels to the Selected Transmitters list on the right.
3. Use the "<" and "<<" arrows to remove panels from the "Selected" column and return them to the "Available" column.
4. Review all the items and click the Save button.

Dealer TX ID Ranges

Transmitter Ranges determine which transmitter IDs are allocated to a Dealer for use with that Dealer's accounts. When adding new Customer accounts to the system, consider that the Customer's Transmitter ID should be within the Transmitter Range of it's associated Dealer. The purpose of assigning a range of Transmitters to Dealer records is that more information about incoming signals is immediately available. When a signal is received with a TXID (Transmitter ID) within a particular Dealer's range it is clear that the signal is from one of that

Dealer's accounts. This gives the Operator more information when handling alarms.

Add Transmitter Ranges

1. Open a Dealer account to add Transmitter Range information.
2. Click the TX Ranges Tab and put the screen into Edit mode.

	Rec. Line Designation	TX ID From	TX ID To	Next TX ID	TX ID Type	Range Full	Restart
▶	RL Prefix 10	0	9999	151	Decimal	<input type="checkbox"/>	<input type="checkbox"/>
	RL 100	10000	11000	10001	Hex (Include A)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	RL 101	11001	11999	11001	Hex (Exclude A)	<input type="checkbox"/>	<input type="checkbox"/>

3. Tab or Click into the Receiver Line Designation cell at the upper left.
4. Use the drop-down arrow at the right of the Receiver Line Designation cell and select the applicable Receiver Line from the listing. This information should be available from the Administrator or Manager of the Central Station. It is important to know which Customers and Dealers are assigned to which Receivers and RLDs.
5. Tab into the TX ID (Transmitter ID) From field and enter the starting number of the TX Range.
6. Tab into the TX ID To field and enter the ending number of the TX Range.
7. Tab into the Next TX ID field and enter the next Transmitter ID to use for this Dealer record.
8. Tab into the TX ID Type field and use the drop-down arrow to indicate the format of the Transmitter ID (Decimal, Hex (Include A), Hex (Exclude A)). This is based on the TX ID format used by your Central Station and/or that Dealer.
9. Tab into the Range Full field and click the checkbox if the Transmitter ID range is full at this time. This is sometimes used to block out a particular number of transmitter ID's to be utilized by a specific account.
10. Tab into the Restart cell and click the checkbox if, once completely through the list of ranges, it is okay to start again looking for empty Transmitter ID numbers.
11. Repeat this process for all Transmitter Ranges allowable for the Dealer.
12. Review all entries to ensure the accuracy of the information and Save the record. Enter any notes if necessary then click OK.
13. Alternately click on another tab to continue editing this Dealer record.

Dealer Programming

The **Dealer Programming** section within the Dealer interface contains all the Dealer-level items that trigger Action Patterns. This is a simpler interface than the Programming Screen associated with Customer records because Dealer Programming only deals with Action Patterns, not signal reassignment.

Add Programming

1. Open the Dealer Form by clicking the Dealers Shortcut, Shortcut Icon or by clicking Maintenance then Dealer.
2. Click the Search icon.
3. Locate the Dealer and open dealer information.
4. Click the Edit Button located at the top of the Application View.
5. Click the Event Programming tab located at the bottom of the Application View.

Event	Alarm	Actions	Instructions
BA	Yes	G1	Help
FA	Default	G4	This is Dealer 1 Fire Alarm Instructions
MA	Default	G2	Medical Alarms

6. Click into the top left empty cell and use the drop-down arrow to the right of the Event cell to select an Event Code from the list.
7. The Description cell will fill automatically based on the Event Code selected. Tab into the Alarm cell and use the drop-down arrow to the right to select the applicable value for Alarm. This tells the system whether or not this Event will trigger an alarm or just show up in the log as a signal. The "Default" value tells the system to treat the event as whatever the system default is. For example, a BA would always be an Alarm unless otherwise defined; so, left at default value BA continues to always trigger an alarm. Change the value to "No" and BA will only be logged as a signal instead of being displayed and handled as an alarm.
8. Tab into the Actions cell and use the drop-down arrow to the right of the cell to select the applicable Action Pattern - Global or Dealer level Action Patterns will be available in the list.
9. Tab into the Instructions cell, click the [...] button and enter specific instructions for the

Event into the text-entry window.

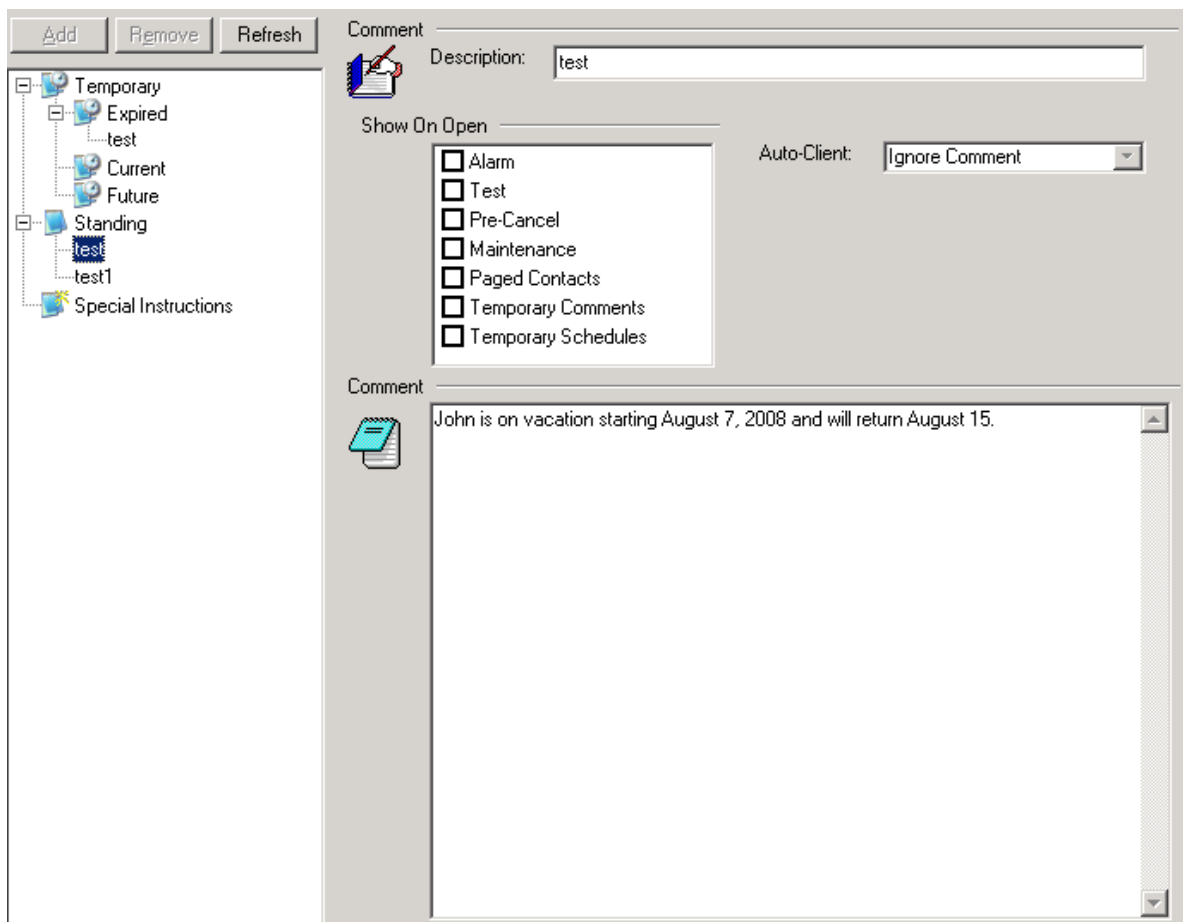
10. Click OK. The instructions appear in the Help cell.

11. Review all changes to ensure the accuracy of the information and Save the Programming. If entering many lines of programming, Save after every few entries to avoid losing data.

12. Enter any notes if necessary then click OK.

Dealer Comments

The **Dealer Comments** area allows users to view, enter, or edit temporary, current, future, and special instruction for a customer. The Comment area also offers users access to view expired comments about a customer.



1. Select the Edit tab at the top of the Comment screen.
2. Above the tree menu there are three buttons Add, Remove, and Refresh. Select the Add button to add a comment into the tree menu and onto the customers account. The Add Comment screen will display.

3. Select the Comment Type by clicking the circle that fits the type of comment that will be added.
- **Temporary** - A Temporary note will only appear within a duration set by the Operator.
 - 1) Click the Add button above the list of Note types.
 - 2) In the prompt box verify that the correct radio button is selected - Temporary.
 - 3) Type a name to identify this Temporary Note and click OK to return to the main Notes screen.
 - 4) Use the drop-down arrows to select a Valid From and To date from the calendar interface; and use the up/down roll arrows to indicate the Valid From and To times. The Temporary Note will only be associated with this record for the duration specified by these date and time parameters.
 - 5) Type the body of the note into the large text area beneath the date/time fields.
 - 6) Save the record or make other changes to the notes Tab.
 - **Standing** - A Standing note is always true for the Customer record (until edited or deleted).
 - 1) Click the Add button above the list of Note types.
 - 2) In the prompt box verify that the correct radio button is selected - Standing
 - 3) Type a name to identify this Standing Note and click OK to return to the main Notes screen.
 - 4) Type the body of the note into the large text area beneath the date/time fields. Since this is a more permanent note type, there are no date and time parameters. This note is valid until edited or deleted.
 - 5) Save the record or make other changes to the notes Tab.
 - **Special Instructions** - Special Instructions are selected from a drop-down. The list items are entered on the Notes tab of the Central Station record.
 - 1) Click the Add button above the list of Note types.
 - 2) In the prompt box verify that the correct radio button is selected - Special Instructions.
 - 3) Using the drop-down arrow select one of the Special Instructions Notes from the list.
 - 4) The associated note appears automatically in the text field. This note is valid until edited or removed.

5) Save the record or make other changes to the notes Tab.

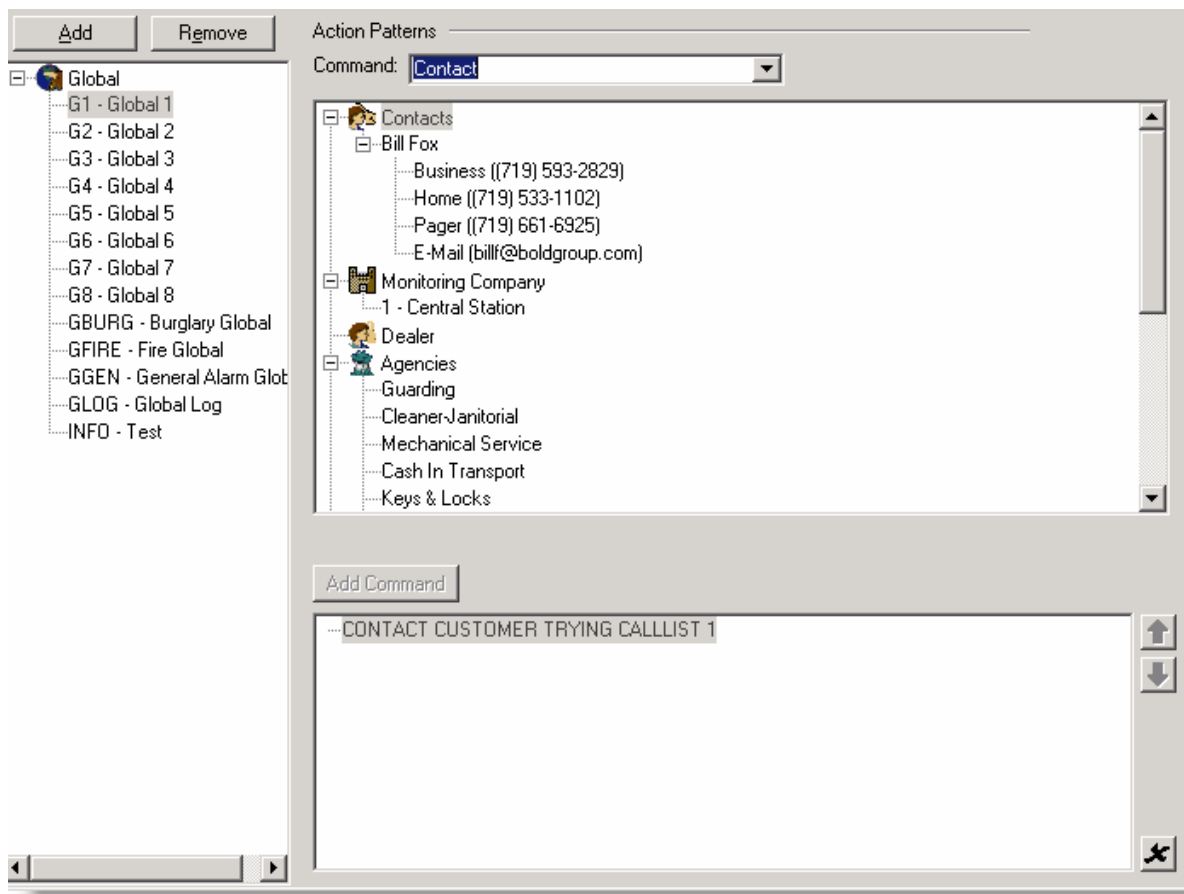
- **In House** - In House Notes are only visible to the Central Station. They are not available to the Dealer when logged into Manitou remotely.

- 1) Click the Add button above the list of Note types.
- 2) In the prompt box verify that the correct radio button is selected - Special Instructions.
- 3) Using the drop-down arrow select one of the Special Instructions Notes from the list.
- 4) The associated note appears automatically in the text field. This note is valid until edited or removed.

5) Save the record or make other changes to the notes Tab.

Dealer Action Patterns

Dealer Action Patterns speed the processing of specific alarms by telling the Operator who to call and what actions to take on each and every alarm.



1. Scroll down the navigation list, select Dealer and Click Add.
 2. Click into the Action ID field and Enter a brief code for the Action Pattern.
 3. Click into the Description field and enter a short description of the Action Pattern.
 4. Click OK to return to the main Action Patterns screen.
 5. Select the type of Action Command in the first pane to the right of the Add and Remove buttons.
- **Contact** - Add contacts to Action Patterns to guide the Operators in calling, paging and/or emailing relevant individuals:
 - 1) Select the Contact to add to the Action Pattern from the list.
 - 2) Click the Add button located just above the Action Pattern pane, to add the Contact to the list.
 - 3) Repeat this process for all persons requiring contact with this Action Pattern.
 - 4) Use the Up and Down arrows to the left of the pane to adjust whom to contact first, second, etc.
 - 5) If a contact was added in error, remove by selecting the list item and clicking the "X" button located just outside the lower left corner of the Action Pattern pane.
 - **Remark** - Add a remark to the Action Pattern to insert a comment or reminder for the Operator:
 1. Tab or Click into the Remark pane.
 2. Type the Remark to be added to the Action Pattern.
 3. Click the Add button located just above the Action Pattern pane, to add the Remark to the list below.
 4. Repeat this process for all remarks tied to this Action Pattern.
 5. Use the Up and Down arrows to the left of the pane to adjust exactly when in the Action Pattern the remark should be executed.
 6. If a remark was added in error, select it from the list and click the "X" button located

just outside the lower left corner of the Action Pattern pane to remove the item.

- **Log Line** - a Log Line action will be added to the Customer Log for each alarm to which it's added:
 1. Tab or Click into the Log Line pane.
 2. Type the information that will appear in the Customer Log.
 3. Click the Add button located just above the Action Pattern pane, to add the Log Line to the list.
 4. Repeat this process for all Log Lines tied to this Action Pattern.
 5. Use the Up and Down arrows to the left of the pane to adjust when the Log Line should be executed within the Action Pattern.
 6. If a Log Line was added in error, select it from the list and click the "X" button located just outside the lower left corner of the Action Pattern pane to remove the item.

- **Show** - Add this type of Action to display the help text directly from the Event Category, Event Definition, etc. as part of the Action Pattern:
 1. Select an applicable option to show Help Text about one of the following: Event Category, Event Definition, Event Programming, Transmitter or Script.
 2. If selecting Script, click the drop-down arrow to the right of the field just below the Script radio button and select the script to display.
 3. Click the Add button located just above the Action Pattern pane, to add the Show item to the Action Pattern.
 4. Use the Up and Down arrows to the left of the pane to adjust when the Show item should be executed within the Action Pattern.
 5. If a Show item was added in error, select it from the list and click the "X" button located just outside the lower left corner of the Action Pattern pane to remove the item.


- **Attention** - Add an Attention line for the purpose of emphasizing information, or to fulfill UL requirements about Alarm ticket information.
 1. Tab or Click into the Attention pane.
 2. Type the text to be added to the Action Pattern.
 3. Click the Add button located just above the Action Pattern pane, to add the Attention line to the list below.

4. Repeat this process for all Attention actions tied to this Action Pattern.
 5. Use the Up and Down arrows to the left of the pane to adjust exactly when in the Action Pattern the Attention line should be executed.
 6. If an Attention line was added in error, select it from the list and click the "X" button located just outside the lower left corner of the Action Pattern pane to remove the item.
- **Suspend** - Add this type of action to Suspend the Alarm for an allotted period of time at some point in the Action Pattern:
 1. Click the up/down arrows or enter the time to suspend the Alarm.
 2. Select if the time unit is in Seconds, Minutes or Hours by clicking the applicable radio button.
 3. Click the Add button located just above the Action Pattern pane, to add the Suspend command to the list.
 4. Repeat this process again if more than one suspend is necessary for this Action Pattern.
 5. Use the Up and Down arrows to the left of the pane to adjust when the Suspend should be executed within the Action Pattern.
 6. If the Suspend was added in error, select it from the list and click the "X" button located just outside the lower left corner of the Action Pattern pane to remove the item.
 - **Close** - Add this type of action to prompt for Closing the Alarm with Resolution Codes automatically entered by the action at the end of the Action Pattern:
 1. Click the drop-down arrow to the right of the Resolution Code field.
 2. Select a Resolution Code from the list.
 3. Click the Add button located just above the Action Pattern pane, to add the Close Resolution Code to the list.
 4. Use the Up and Down arrows to the left of the pane to adjust when the Close Resolution Code should be executed within the Action Pattern.
 5. If a Close Resolution Code was added in error, select it from the list and click the "X" button located just outside the lower left corner of the Action Pattern pane to remove the item.

6. After configuring the Action Pattern, repeat the process for all additional Global Action Patterns required for the Central Station.
7. Verify all items for accuracy and Save the record or click on another tab to add more Central Station information.

Dealer Billing Charges

Dealers can set up **billing cycles** and charges through the Operator Workstation. Dealer Billing can be by Class Code or by Monitoring Service billing code, which is entered in the Monitoring Type form in the Supervisor Workstation. Additionally, an Activity-based billing utility for a Dealer is available for Sedona and Quick Books accounting systems. The amounts are determined by the information entered into the Dealer's billing charges form. The new system option for billing by Class Code or Monitoring Service billing code will control how the charges are generated for this process.

Billing Charges								
	Class Code	Active Price	Inactive Price	Acct Billing Code	Signal Limit	Alarm Limit	Total Limit	Signal P
*								

1. First, select a class code for this Dealer.
2. Enter the Active Price for all active accounts.
3. Enter an Inactive Price for all inactive accounts.
4. Enter the Accounting Billing Code.
5. Enter the Signal Limit. This is in case the Dealer is charged per number of signals received from their accounts.
6. Enter the Alarm Limit.
7. Enter the Total Limit.
8. Enter the Signal, Alarm and Total Price.
9. Enter a Limit Billing Code if applicable.
10. Click Save.

Dealer General Schedules

Dealer General Schedules define the availability of Keyholders, schedules, and when the Dealer can put his or her accounts on test.

General Schedules													
	Week							Time				Date	
	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Start 1	End 1	Start 2	End 2	From	To
▶	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	07:00	08:00				
*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						

1. Click on General Schedules in the Jump To menu.
2. Click on the Add button. An Add Schedule box will appear:

Add Schedule

Code:

Description:

Type:

OK Cancel

3. Enter a brief four-letter code into the Code field.
4. Enter a brief description into the Description field.
5. Select a Type from the drop-down menu.
6. Click OK to return to the main General Schedules screen.
7. Select the days of the week to be included in the General Schedule by checking the appropriate checkboxes.
8. In the Start 1 and End 1 cells, enter the first Start and End time. If applicable, enter a second Start and End time. For example, there may be some times when a keyholder is available during regular business hours, however they may be unavailable during a

commute home. This is when two start and end times would be utilized.

9. In the From and To date cells, enter the the dates which this schedule is applicable. Enter only numbers, as Manitou will automatically insert the date separators.

10.Repeat as necessary to add any additional schedules.

11.Click Save.

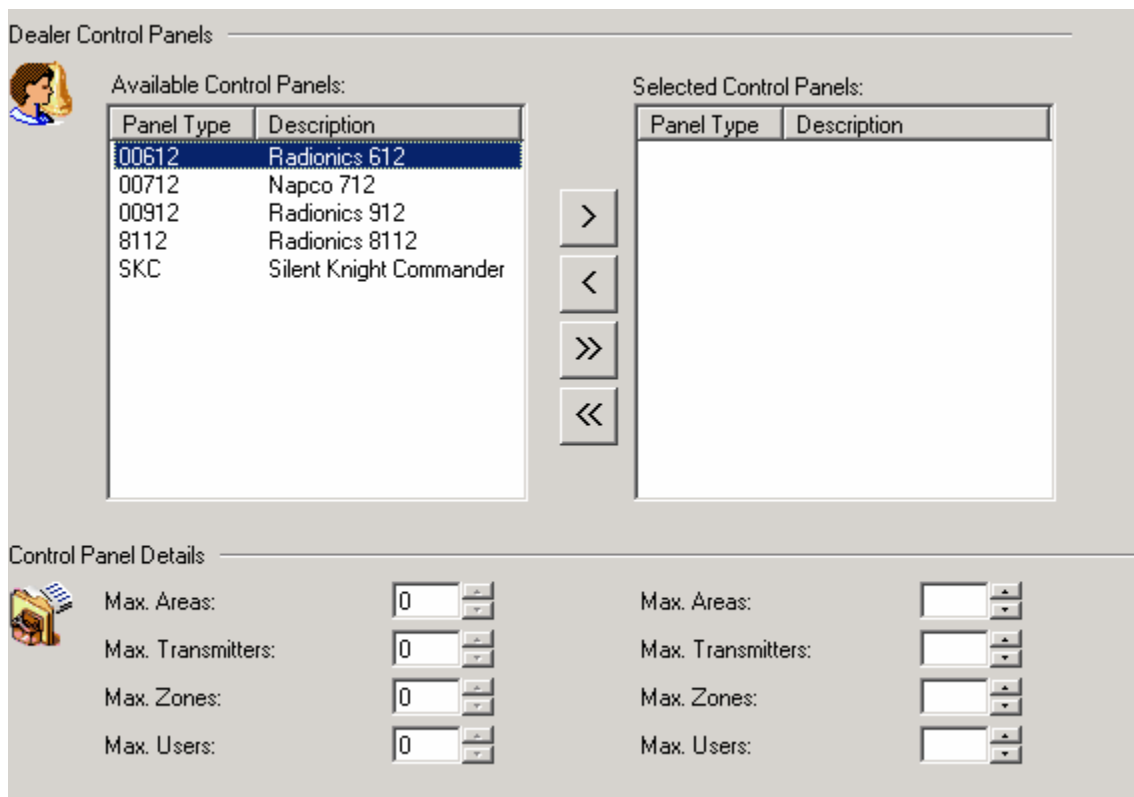
On Test General Schedule

This general schedule is intended to provide a window during which a Dealer will be allowed to put accounts out of service, assuming he or she is initiating the out of service. This means that if an "On Test" general schedule exists on the Dealer account for 9 a.m. to 5 p.m. on weekdays, and a dealer logs into VRT or BoldNet to put the account on test outside of the schedule, they will not be allowed to. At this point, they will be required to call in to the Central Station to have an Operator place an account on test. Each dealer account is only allowed a single On Test schedule.

Dealer Control Panels

Dealer Control Panels allows the selection and removal of all panels that the Dealer services.

1. Open the Dealer record and click the Edit button located at the top of the Application View.
2. Click the Control Panels tab, located at the bottom of the Application View.



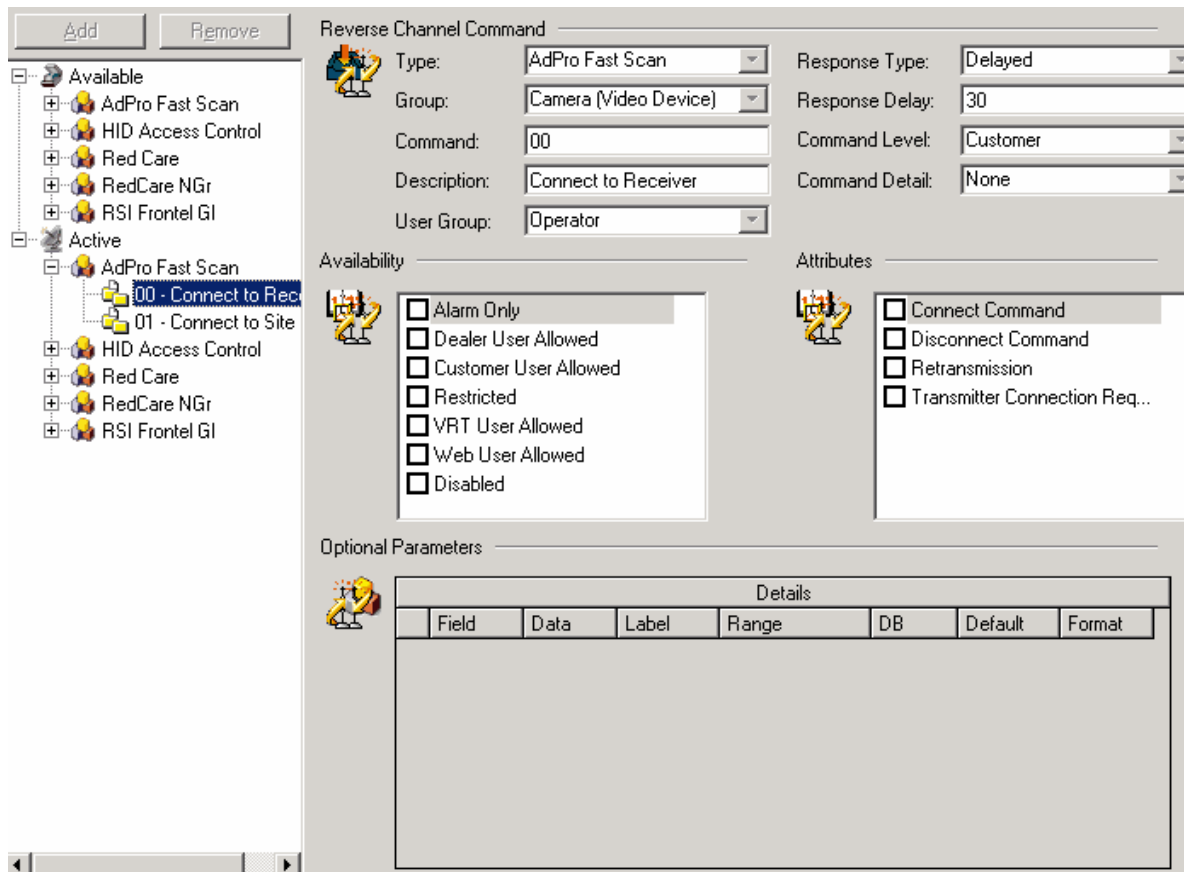
3. The Control Panels interface has two columns. The Available Control Panels are on the left and the Selected Control Panels are on the right.
4. To move a Control Panel list from the Available list to the Selected Control Panels list, click to highlight one of the Available Control Panels on the left and click either the ">" to move one at a time, or the ">>" to move all the control panels at once.
5. Use the "<" and "<<" arrows to remove one or all panels from the "Selected" column and return them to the "Available" column.
6. Select each Control panel in the Selected Control Panels view one-at-a-time and make any changes to the Maximum Areas, Transmitters, Zones, and/or Users values. Most often, the defaults should be correct. This screen provides the ability to change those values if they differ for some reason.
7. Review all the items within the view then Save the changes.

Dealer Reverse Protocols

This information has not yet been documented.

Dealer Reverse Commands

Reverse Commands for Dealers can be used to send a command back to a panel to test to see if it is working properly.



This information has not yet been documented.

Dealer Reports

From the **Dealer Reports** screen, Users can add and schedule reports to be periodically generated and sent from Manitou to the Dealer.


1. Click on the Add New button. The System Reports screen will appear.
2. Select the desired report from the reports list.
3. Check the Priority level of the report. Manitou will use this number to determine which reports in the report queue to print first - the lower the number, the higher the priority. Unless urgent, this number should be set to 6.
4. Enter any relevant search criteria.
5. Click Next.
6. On the Distribution page, select the distribution method and destination for the report.

A number of options are available. Uses can:

- View it on screen, using the preview facility.
- Print it locally (in the central station), with an option to preview first.
- Send it to a nominated customer or dealer, with an option to review first.
- Send it to any individual (whether on the system database or not) by email or fax, also with an option to preview.

Destination Window


Override or unlisted destination: _____

 Override recipient's name:

Override destination type:


Override destination address (Fax/Email):




Contact list destination: _____

 Default printer:

Contact list type:

Hold for preview

 Contacts

-  Bill Fox
-  Central Station
-  Company (printer only)

For more information on printing, sending and previewing reports, see the Reports: Run a System Report section of this manual.

Dealer Statistics

Dealer Statistics are a quick and easy to view customer statistics in the Manitou Client or from the Web. The Statistics form is a read-only menu, with the option of drilling down into

each statistic for additional information. Users may also select to include Sub Dealers in the statistics. Checking this option will add the Sub Dealer counts to the main Dealer's counts.

Two options control several aspects of the Statistics. The first determines the number of customers for be shown for "Top x" statistics, where x is 1-50. The second controls the number of days of activity to be considered for activity related statistics. Several new statuses are maintained at the customer level. They are "Low Battery", "Late to Test" and "No Event Programming." These can be seen on the Zone Status form of the customer and in the customer status forms.

Statistics are provided for the following areas:

Customer Counts

- *Active Customers* - All active customers for a specific dealer
- *Inactive Customers* - All inactive customers for a specific dealer
- *Pending Customers* - Currently pending customers for the dealer
- *Deactive Customers* - Deactivated customers for the dealer

Customer Status Summary

- *Currently In Alarm* - All alarms in the Alarm Queue that belong to the specified dealer or sub dealer
- *Currently On Test* - All alarms for the specified dealer or sub dealer that are on test
- *Dispatched Alarms in the Last 24 Hours* - Number of alarms in the last 24 hours for customers belonging to the dealer that authority has been dispatched on
- *New Maintenance Issues* - Number of maintenance issues that have not been modified
- *Unresolved Maintenance Issues* - Number of unresolved maintenance issues for the dealer
- *With Expired Permits* - Number of customers belonging to the dealer with expired authority permits
- *Watch List* - Number of customers on a watch list. A watch list is a group of accounts that is meant to be easily accessible. For example, if a high profile customer needs to be watched, the watch list is a shortcut to the customer without having to search for the customer each time. Customers may be added to the watch list by simply double-clicking on the Watch List line in the statistics form to bring up the customer Watch List window:

The screenshot shows a software window titled "Customer Watch List". At the top left, there are two buttons: "Add" and "Remove". Below these is a table with two columns: "Customer ID" and "Name". The table is currently empty. To the right of the table are two arrow buttons (up and down). At the bottom of the window are two buttons: "Save" and "Cancel".

Click on the Add button and enter the Customer ID to add to the watch list. Once the customer is added, click Save.

- *Top Alarm Activity over 30 Days* - Customer with the most alarm activity over the past 30 days
- *Top False Alarm Activity over 30 Days* - Customer with the most false alarm activity for the past 30 days

Customer Transmitter Summary

- *In Alarm* - Number of current transmitters with an alarm in the Alarm Queue
- *In Fault*
- *In Line Fault*
- *With Low Battery* - Number of transmitters with a low battery
- *With Late-to-Test* - Number of transmitters showing Late-To-Test signals
- *Missing Event Programming* -Number of transmitters missing event programming
- *Transmitters Not on File in the Last 24 Hours* - Number of customers with no transmitters associated with the account

Statistics

 24 Hour Inquiry 48 Hour Inquiry 72 Hour Inquiry

Include Sub Dealer Statistics

Customer Counts

Active Customers	0
Inactive Customers	0
Pending Customers	0
Deactive Customers	0

Customer Status Summary

Currently In Alarm	0
Currently On Test	0
Dispatched Alarms In The Last 24 Hours	0
New Maintenance Issues	0
Unresolved Maintenance Issues	0
With Expired Permits	0
Watch List	0
Top Alarm Activity Over 30 Days	10
Top False Alarm Activity Over 30 Days	10

Customer Transmitter Summary

In Alarm	0
In Fault	0
In Line Fault	0
With Low Battery	0
With Late-To-Test	0
Missing Event Programming	0
Transmitters Not On File In The Last 24 Hours	0

Users have the option to select a 24-hour, 48-hour or 72- hour time period to display statistics.

Maintenance Issues

The Maintenance Issues form is similar to the global Maintenance Issues form; however, only maintenance issues for the Dealer are displayed on the local Maintenance Issues form. Since only the Dealer's issues are displayed, the filtering tab is not needed.

Additionally, all resolved and unresolved issues are displayed. Adding, editing, and clearing of the issues is similar to the global form, but this functionality is locked out when editing the Dealer since the maintenance issues do not participate in locking scheme for the Dealer. When editing and saving an entity with outstanding maintenance issues, the Operator is prompted for each issue to determine if it was resolved, and for the operator to resolve, purge or update the issue:

Maintenance Issue

Outstanding Maintenance Issue for Kailey Mohrman. Did you resolve this issue?

Kathy reported an issue with her panel.

Notes:

Problem was reported on 8/8/08.

Resolve Issue Resolve and Purge

Update Notes Take No Action

Note: Maintenance lists may be sorted with the exception of the Description and Notes columns.

Edit a Dealer Record

1. Find and then display the appropriate record as described above.
2. Click the Edit button.
3. Move the mouse cursor to the field that needs to be modified and click into the field.
4. Modify the contents of the field, as required.
5. Make any changes to additional fiends that should be modified
6. Use the radio buttons located to the right of the form to move to the various pages of the record.
7. When finished editing the Dealer record, click Save to store the changes in the database

Delete a Dealer Record

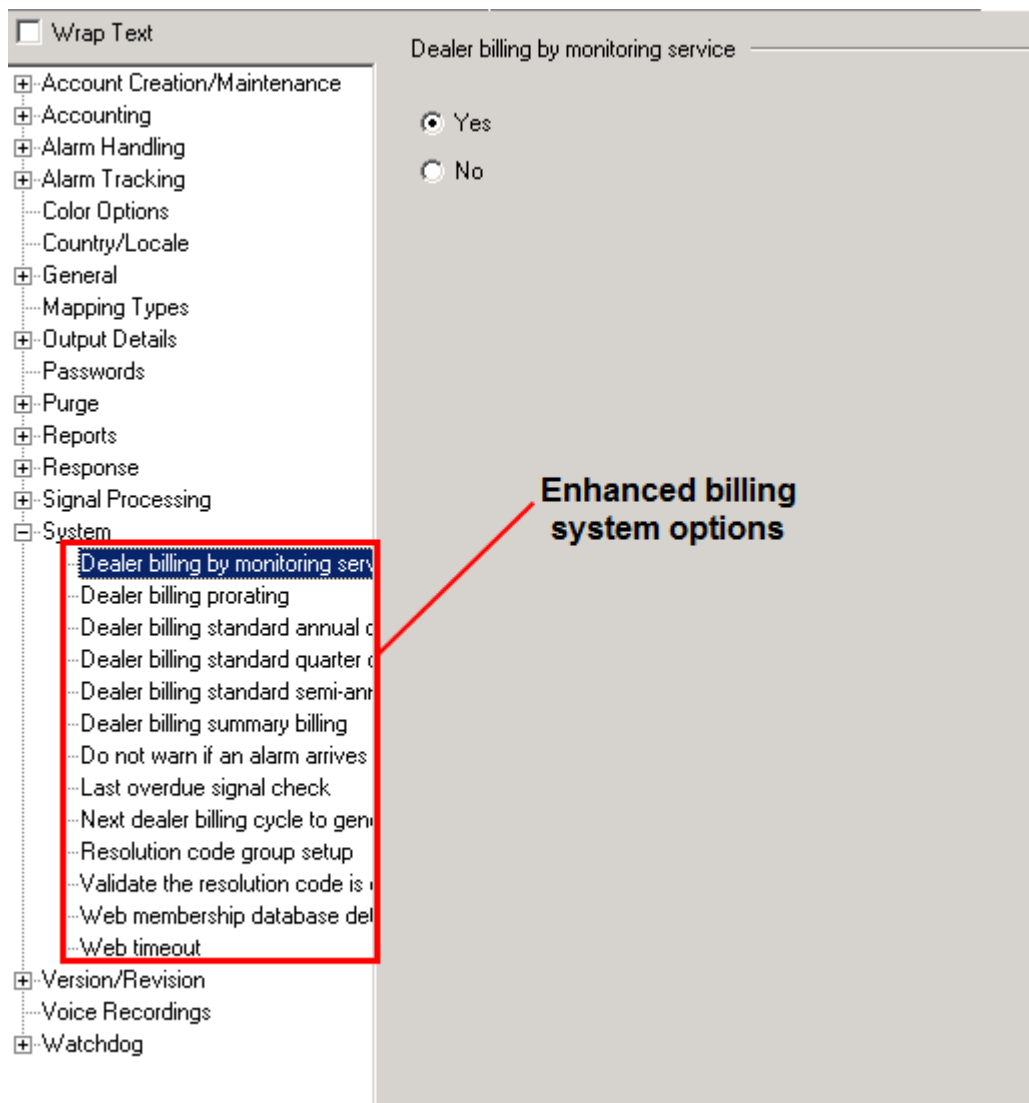
Dealers must first have an inactive status in order to delete the dealer's record. Users may first wish to read the instructions on Dealer Takeover to ensure that all current customers are associated with a new Dealer before deleting the Dealer's account. Otherwise, when deleting a Dealer record, users will be prompted to delete all of the customers associated with the Dealer record. If so, continue with the delete process.

Dealer and Third-Party Billing

The following section details how to set up Dealer and Third Party billing in Manitou. Accounting company integration is required in order for some of these options to work properly.

System Options

Before Dealer Billing can be utilized, several options must be set in the Supervisor Workstation. Under the Tools menu, select Options. The Options form will appear:



Select the System menu and expand the menu options. The following options will be available:

- Dealer billing by monitoring service
- Dealer billing prorating
- Dealer billing standard annual cycle
- Dealer billing standard quarter cycle
- Dealer billing standard semi-annual cycle
- Dealer billing summary billing

Dealer billing by monitoring service will bill the customers by monitoring service rather than class code. Selecting "Yes" will license enhanced billing, which will then enable non-monthly billing cycles, pro-rate charges, table-based pricing, time-based pricing and deferred income tracking. **This option must be set to Yes.**

If the "**Dealer billing by prorating**" option is enabled, data entry changes that affect billing will cause pro-rated charges to be created based on when services start and/or end. If there is no start date entered and the service is marked as chargeable, the service will begin at the time of entry. If a start date is specified, the service will start on that date. Please note that the date cannot be set prior to the current date. Users may also start or end a service by making changes in the chargeable status or choosing a different monitoring type code. Additionally, changes in a customer's status will cause pro-rated adjustments for all active services to be created. For instance, if a customer with a "pending" status is changed to an "active" status, will trigger the pro-rated billing as of the active date.

This also applies to a customer's Dealer setting by stopping billing for the original dealer and start billing for the new dealer unless it is detected that the new dealer is within the same master dealer and the sub-dealers are being billed at the same master level.

The **Dealer billing by standard annual, standard quarter, and standard semi-annual cycle** options control when the annually, quarterly and semi-annually "standard" cycles should occur. Users can select which months to generate recurring charges of that type. For example, if the user sets the quarterly billing cycle to start in January, the customers will be billed in January, April, July and October. Setting this option to "Any" indicates that there are no standard cycles for non-recurring charges, such as overage charges. These charges are billed at the next billing cycle.

The **Dealer billing summary billing** option specifies whether or not the dealer billing report will be in summary format. This applies to recurring charges only. This may be helpful in the event that a dealer has multiple recurring charges each month.

After setting these preferences, locate the "**Next dealer billing cycle to generate**" option. Select the year and month for the next billing cycle to start. In this example, the billing cycle will begin in April 2009:



Next dealer billing cycle to generate

Year: 2009

Month: April

When finished, click Save.

Accounting Companies

The next step is to ensure that the accounting company software is properly set up in the Supervisor Workstation. Select the Maintenance menu > Accounting Companies to open the Accounting Company form:

Accounting Company

Company ID: QUICKBOOKS

Interface type: Dealer Billing

Application: QuickBooks

Name: Bold Technologies

DSN:

User: username

Password: password

Server: 123.45.678.90

Update common fields

Account ID required

Force Account ID to be unique

Force services to be one-to-one with recurring

Push Customer Changes

Begin by clicking on the Edit button, and then the Add button to bring up the Add Accounting Company form:

Not interfaced

Description

Not interfaced

Manitou to Accounting

Accounting to Manitou

Read only

Enter the Company ID (here, "QUICKBOOKS"), and select the interface type from the drop-down menu. The Dealer Billing interface type is for dealer billing-only companies. Selecting this option will only show accounting companies of this new type on the existing Dealer's A/R company field. It will also exclude the dealer billing-only companies from the customer's A/R field. The Dealer Billing interface acts in exactly the same way as the push from Manitou to Accounting, meaning that Manitou will be pushing information to the accounting company software.

Select the application (here, "Quickbooks") and the name of the monitoring company. Note the warning that if no names appear in the Name field, the system has not been integrated with an accounting system. Please contact Bold Technologies if this occurs. Otherwise, click OK.

Back at the Accounting Company form, several fields must now be filled in for final set up to be complete. Enter the Username and Password into the appropriate fields. This username and

password are the same logins used in the accounting software. Finally, enter the server IP address that the accounting software is located on.

Accounting Company Options

Accounting Company

Company ID: QUICKBOOKS

Interface type: Dealer Billing

Application: QuickBooks

Name: Bold Technologies

DSN:

User: username

Password: password

Server: 123.45.678.90

- Update common fields
- Account ID required
- Force Account ID to be unique
- Force services to be one-to-one with recurring
- Push Customer Changes

Here, users have the option to select to update common fields, require an Account ID, force the Account ID to be unique during the linking process, force services to be one-to-one with recurring, and push customer changes.

If the "Update Common fields" box is unchecked, name and address changes made in Manitou will not be pushed to the accounting software. Additionally, if "Force services to be one-to-one with recurring" is checked, linked customers cannot be created, stored or imported unless all services are completely matching.

This means that for every monitoring service that is in Manitou, it must also contain a recurring item in the accounting software, which includes the quantity of each recurring item. For example, if a recurring item represents an open/close and contains four open/close services in Manitou, there must be four open/close recurring items listed under the same system in the accounting software. This is ideal for most Central Stations, but some may wish to roll-up charges for accounting and don't wish to unroll and itemize individual items. If this is the case, leave the "Force services to be one-on-one with recurring" box unchecked.

Note: If the accounting company is set for unique services and the direction is Accounting to Manitou, Manitou will verify that the services and recurring appear to match whenever a customer is made active, and any changes are made that affect services of an active customer.

The "Push Customer Changes" option will allow users to make edits in Manitou and push the

information (data entry changes) into the accounting software.

Monitoring Types

For billing purposes, the Monitoring Types form will allow Central Stations to modulate every item for billing and reporting purposes with one main form. For example, if the Central Station wishes to impose a one-time setup fee, it can do so by adding the charge code to the appropriate Monitoring Type form which will automatically apply to the Service in the Client Workstation.

Like the Systems form in the Client Workstation, the Monitoring Types form consolidates several separated forms and allows easier setup for services in one controlled area. Any service, billable or not, that is specific to a Central Station can be customized to the Central Station's liking by adding parameters, such as the maximum and minimum amount of transmitters.

Monitoring types includes templates for monitoring services and can be accessed through Maintenance Setup options in the Supervisor Workstation. On each monitoring type form, billing code and add code fields are available for codes to be added to the monitoring service. This monitoring service is linked to the customer's record in Manitou.

The screenshot shows the 'Monitoring Types' configuration window. At the top left, there are 'Add' and 'Remove' buttons. Below them is a tree view with the following structure:

- Daily Signals Monthly
- System
 - Alarms Only
 - Log Only (All Signals Log)
 - Access Control
 - Location Monitoring
 - Other
- Sub-System
 - Fire Test
 - Dual Signaling
 - Two Trip Signaling
 - Entry/Exit Delay
 - Video Monitoring
 - Audio Monitoring
 - Guard Tour
- Transmitter
 - Daily Transmitter Test
 - Hourly Transmitter Test
 - Weekly Transmitter Test
 - Transmitter Test
 - Backup
 - Overdue Restores
 - Monitored TX Path
 - Every Min Test
- Area
 - Open/Close
 - Verify O/C User (All)
 - Open/Close (Log)
 - Verify O/C User (Open C)

On the right side, the 'Monitoring Types' section contains a magnifying glass icon and the following fields:

- Attribute: [Text Field]
- Description: [Text Field]
- Customer Sub Type: [Dropdown Menu]
- Monitoring Level: [Dropdown Menu]
- Billing Code: [Text Field]
- Heading Code: [Text Field]
- Add Code: [Text Field]
- Limit Code: [Text Field]
- Limit Type: [Dropdown Menu]
- Limit Quantity: [Spin Box]

Billing Codes

Users can add a billing code by physically typing it into the billing code field or by looking up the billing code from the accounting company. To add a code from the accounting system, click on the magnifying glass icon and select the accounting system from the drop-down menu:

Code	Description
Alarm Monitoring	Standard Alarm Monitoring
Bronze Service	Bronze Service Account
DLR1ALARMS	DLR001 ALARM COUNTS
DLR1FIRE	Recurring Fire system charge DLR001
DLR1SIGNALS	DLR001 SIGNALS
Gold Service	Gold Service Account
O/C Supervised	Accounts with Open and Close Schedules where t...
Silver Service	Silver Service Account

Once the accounting system is selected, the recurring monitoring types that are already in the accounting system will appear. Select the code and apply it to the billing code field.

Operator Workstation

Dealer Setup

Dealers can be set up in the Maintenance > Dealers form. Click on the New button at the top of the form to bring up the Add Dealer form:

Dealer ID:

Name:

A/R Company:

A/R Number:

Country:

Language:

Time Zone:

Enter the Dealer's ID, the Dealer Name and select the A/R company from the drop-down menu. Selecting an A/R company and an A/R Number indicates that the Dealer will be billed

instead of third-party billing (meaning, the monitoring company will send the bill directly to the customers instead of the Dealer). Select the Country, Language and Time Zone, and click OK.

Dealer

Dealer ID: 1982

Name: Francisco's Security Services

Master Dealer:

Use Master

Monitoring Status: Normal

Address

Street 1: 8254 Yosemite St.

Street 2:

City: Colorado Springs

State: Colorado Zip Code: 80922

Country: United States of America

Language: English (United States)

Time Zone: Mountain Time (US & Canada)

A/R Company: Bold Technologies

A/R Number: *(AUTO)

Contact

Site:

Home:

Business:

Mobile:

E-mail

E-Mail: PDF

Web

Web Address:

Fill in the address, contact information, and additional details such as the E-mail and Web address on the main form. With the A/R Company and A/R Number defined sub-dealers with an empty A/R Number will be included under the master dealer. Any dealer that does not have an A/R company defined cannot enter anything in the Billing Charges form.

To set up third-party dealing, select the Options form from the Jump To menu:

Dealer Options

Allow Customers to take jobs out of service?

Engineer Security Level: Monitoring Company Level

Monitoring Group: Monitoring Group 0

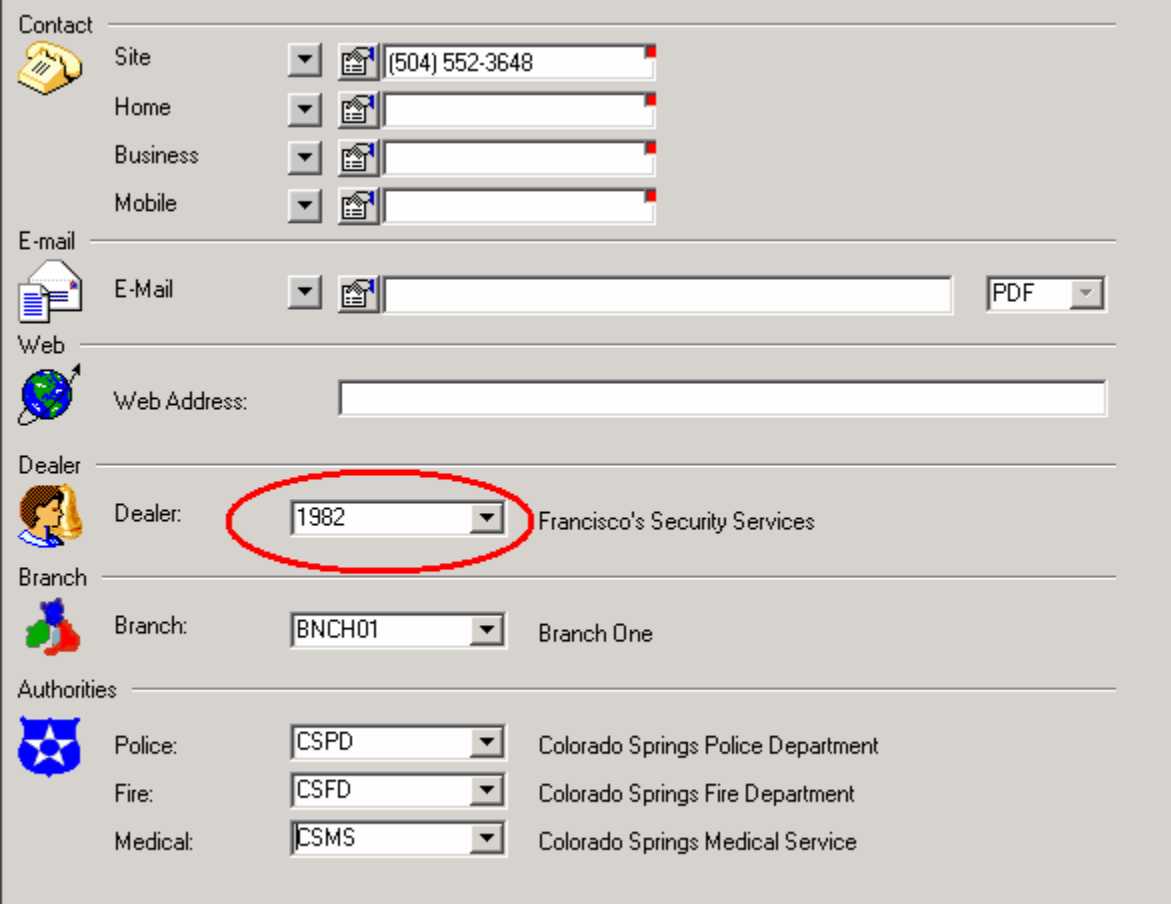
Time Format

Default

If the A/R Company and A/R Number are set in the Third-Party Billing section, it will indicate that third party dealer billing is in effect for the Dealer's customers. This means that the monitoring company will bill customers on behalf of the Dealer. Click Save to save any changes made to this form.

Assign Customers to a Dealer

Assign customers to a Dealer by clicking on the Customer's Details tab in the Jump To form:



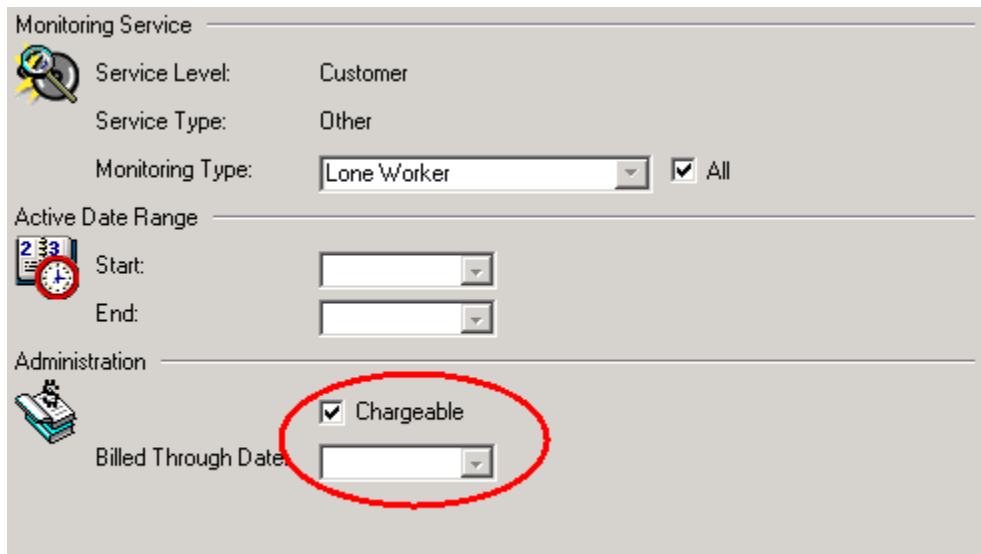
The screenshot shows a web form with the following sections and fields:

- Contact:** Site: (504) 552-3648; Home: ; Business: ; Mobile:
- E-mail:** E-Mail: ; PDF:
- Web:** Web Address:
- Dealer:** Dealer: 1982 (circled in red) - Francisco's Security Services
- Branch:** Branch: BNCH01 - Branch One
- Authorities:** Police: CSPD - Colorado Springs Police Department; Fire: CSFD - Colorado Springs Fire Department; Medical: CSMS - Colorado Springs Medical Service

Click on the drop-down menu in the Dealer section and select the appropriate Dealer. Click Save to save the changes.

Add Services to a Customer

The next step is to add services to a customer. These services are chargeable items that were set up and defined in the Supervisor Workstation under Monitoring Types. When a System is added to a customer, services are automatically added that correspond to the system. In this example, a burglary Event Monitoring system was added, which then automatically generated a Monitoring Type of Alarms Only:



The screenshot shows a 'Monitoring Service' configuration window. It is divided into three sections: 'Monitoring Service', 'Active Date Range', and 'Administration'.
- 'Monitoring Service' section: Service Level is 'Customer', Service Type is 'Other', Monitoring Type is 'Lone Worker' (selected in a dropdown), and an 'All' checkbox is checked.
- 'Active Date Range' section: Start and End dates are shown as empty dropdown menus.
- 'Administration' section: A 'Chargeable' checkbox is checked and circled in red. Below it is a 'Billed Through Date' dropdown menu.

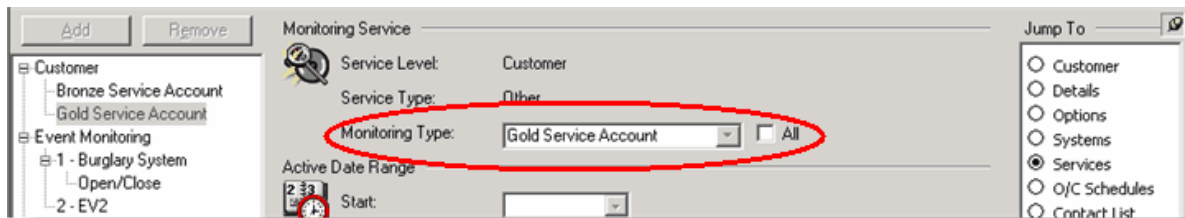
The important part of this form is the Administration section, which signifies whether or not this service is chargeable. Since this Monitoring Type was already set up in the Supervisor Workstation with a billing code, it is marked as chargeable. Users may also set the Start and End date if this service happened to be a temporary service. If the pro-rating option is enabled, data entry changes will cause pro-rated charges to be created based on when services start and/or end. If there is no start date entered and the service is marked as chargeable, the service will begin at the time of entry. The date cannot be set prior to the current date. Users may also start or end a service by making changes in the chargeable status, or by choosing a different monitoring type code.

To make a service non-billable, uncheck the Chargeable box. This is a permissions option and can be changed in the Supervisor Workstation. Additionally, users can pick a Monitoring Type that has a zero price attached to it. User should note that setting a service attached to a system as "not chargeable" does not affect any other services that may be underneath that same system (such as transmitter test or Open/Close). They each must be marked as not chargeable if that is the intent.

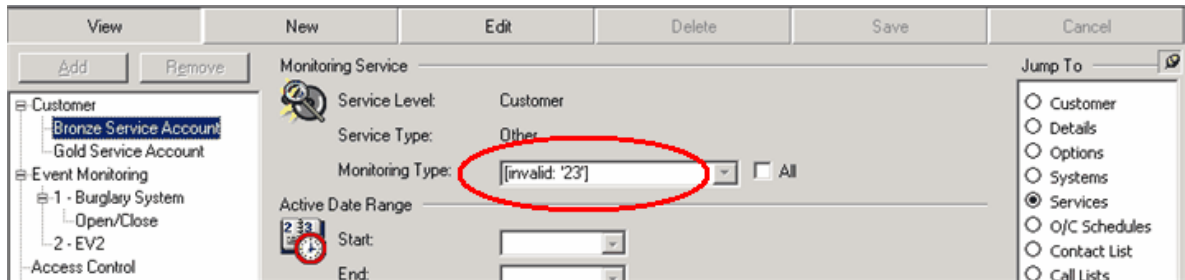
Invalid Items

Services available to customers are filtered by the Dealer associated with the account. The end result is that "invalid" items will appear on a customer's services if they are not included at the Dealer level. This is cosmetic and was done so that the Manitou user can easily see if there are any data entry issues with an account by looking for invalid items.

Below, a valid service has been set up at the Dealer level and then added to the customer. In the Monitoring Type field, the full description of "Gold Service Account" appears:

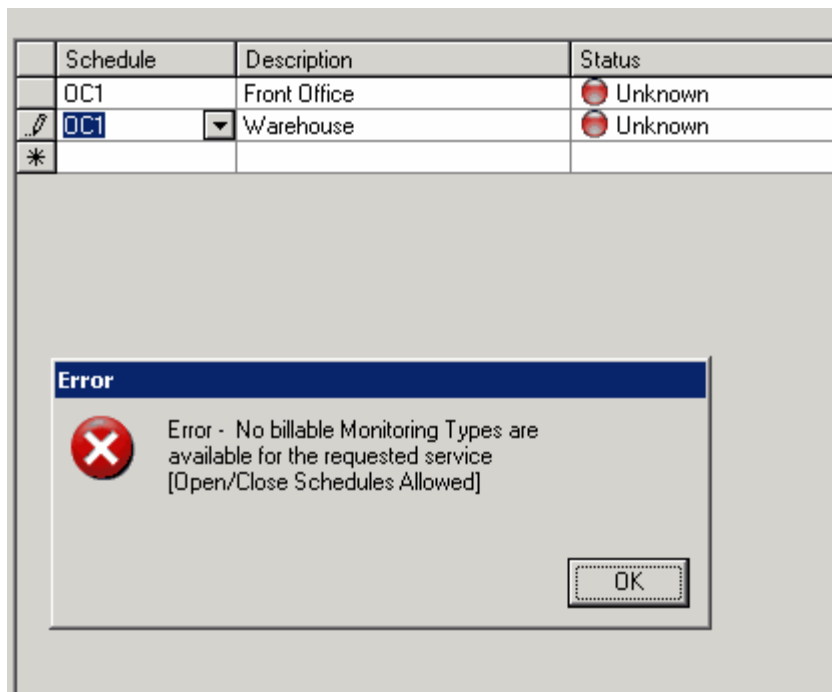


When selecting the Bronze Service Account, an invalid item appears in the Monitoring Type field. This is because the Dealer does not have this service within their billing codes:



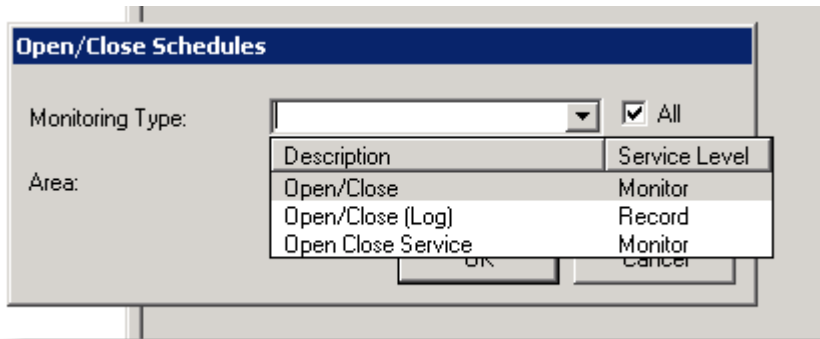
Checking the "All" checkbox next to the Monitoring Type field will temporarily display the description again. The invalid item will appear again when the user clicks Save or Cancel. This "All" checkbox appears in other areas for Dealer billing. Users will need to check this box to add certain other services, such as Open/Close.

When saving the services changes and a service is not available for the Dealer, an error will appear, stating the service with the problem:



When this error appears, click OK. Another dialog will appear for the specific service type to

be added. This is where the "All" checkbox is needed so that one of the available services can be selected that may not be tied to the Dealer:



This will also be true for items like Transmitter Test. As long as the "All" checkbox is checked, users can still add the correct service for the account. However, the Monitoring Type field will state "Invalid" unless the service is attached to the Dealer.

Set up Billing Rates

The new Billing Rates form allows a rate table to be attached to an item price and/or time price. In the Billing Charges form, these rate tables are used to calculate rates based on certain requirements. For instance, if a service exists for monitoring basic alarms, the monitoring company may create a rate table based on the number of alarms:

Min Quantity	Base Price	Additional Price
50	\$5.00	\$4.50
100	\$3.00	\$2.50
*		

Here, for 0-50 alarms received, the monitoring company charges a \$5.00 rate. For an alarm count of 51-99 alarms, the rate is \$4.50.


Dealer and Customer Calculation Types

Dealer and Customer Calculation types will change which rate table is used to calculate charges. For example, if Dealer Dave has two customers, A and B, and Customer A receives 5 signals over the limit in the last month, and Customer B receives 6 signals over the limit. If the rate table associated with the billing charge for those signal overage is using the Dealer

Calculation, then all 11 signals would be charged to Dealer Dave at the rate for 11 signals specified in the table. However, if the rate table associated with the billing charge is the Customer Calculation type, then Dealer Dave would be charged for 5 signals at the rate for 5 signals, and charged for 6 signals at the rate of six signals.

The following rate table is another example of how rate tables may be used:

Billing Rates

 Rate Code: 2
 Description: False Alarms
 Calculation Type: Dealer

	Min Quantity	Base Price	Additional Price
▶	2	\$5.00	\$10.00
*			

In this scenario, the monitoring company wishes to assess a fee of \$5.00 for false alarms. When more than two false alarms have been processed, an additional charge of \$10.00 is assessed to the customer.


Set up Billing Charges

Billing Charges may be set up on a Recurring, Add, Signals or Time basis.

Recurring

Users may wish to set up a Recurring charge if the service occurs every month. In the example below, the recurring charges are set up for alarm monitoring:

Billing Charges

 Item Code: GOLD SERVICE

Recurring Add Signals Time

Recurring Charges

Active Price: 10.00 Active Rate: 1
 Inactive Price: Inactive Rate:
 Frequency: 1 Month
 Billing Code: ALARM MONITORING

With an active price, a \$10.00 charge is assessed every month for alarm monitoring. Users may change the frequency of the charges (in this example, every month), and also charge for

an inactive account. For example, if the account is inactive, but the monitoring company is still monitoring the site, the inactive rate may be applied. Remember, in the Billing Code field, add the Billing Code for the service that is defined in the Monitoring Types form in the Supervisor Workstation. This must also match the billing code in the accounting software.

Add

An Add charge is added in circumstances where a one-time charge may be applied, such as a setup fee:

The screenshot shows the 'Billing Charges' form with the following details:

- Item Code:** GOLD SERVICE
- Charge Type:** Add (selected), Recurring, Signals, Time
- Add Price:** 300.00
- Add Rate:** (empty dropdown menu)
- Billing Code:** SETUP

In the Add Rate drop-down box, use the <use price> option to enter the Add Price manually. Other pre-defined rates may be used if appropriate.

Signals

Using the Signals Charges form allows the monitoring company or dealer to bill based on the number of overage signals received in a given time period. Here, users may enter specifications based on the total price, or by signal and alarm price:

The screenshot shows the 'Billing Charges' form with the following details:

- Item Code:** GOLD SERVICE
- Charge Type:** Signals (selected), Recurring, Add, Time
- Signal Overage Charges:**
 - Total Price:** (empty)
 - Total Rate:** (empty dropdown)
 - Signal Price:** 1.00
 - Signal Rate:** 1 (dropdown)
 - Alarm Price:** 3.00
 - Alarm Rate:** 1 (dropdown)
 - Total Limit:** (empty)
 - Signal Limit:** 100
 - Alarm Limit:** 50
 - Billing Code:** SIGNALS

In the example above, the monitoring company is choosing to charge customers \$1.00 for

every signal that exceeds the limit in a given time period, and \$3.00 for every alarm that exceeds the limit. The Signal and Alarm limits are set, and the Billing Code is entered into the appropriate field. In the Signal Rate and Alarm Rate fields, users can select which rate to use:

Billing Charges

Item Code: GOLD SERVICE

Recurring
 Add
 Signals
 Time

Signal Overage Charges

Total Price: Total Rate:

Signal Price: Signal Rate:

Alarm Price: Alarm Rate:

Total Limit:

Signal Limit:

Alarm Limit:

Billing Code:

- <use price>
- 1 Basic Alarms
- 2 False Alarms

Selecting <use price> will use the price entered into the Signal Price and alarm Price fields. Selecting 1 - Basic Alarms will use the price for basic alarms, and selecting 2 - False Alarms will use the rate based on false alarms. These rates are determined in the Billing Rates form.

Time Charges

Lastly, the Time Charges form allows for time-based billing items. In the example below, a time price of \$1.00 is used for every 10 minutes (600 seconds) spent on an alarm. The Time Increment value determines the value that each specific time charge (per signal event) will be rounded to. For example, if the time spent on an alarm is 6 minutes and 45 seconds, the time will be rounded to 7 minutes.

Billing Charges

Item Code: GOLD SERVICE

Recurring
 Add
 Signals
 Time

Time Charges

Time Price: Time Rate:

Time Unit:

Time Limit: (total seconds)

Time Increment: (seconds per incident)

Billing Code:

Time-based billing is used in conjunction with soft programming attributes that are attached to event codes. This programming attribute is "q" and can be set in the Supervisor Workstation under Events > Event Codes. The signal processing system will recognize the new attribute and set a new flag on the Customer Activity record to indicate that time-based billing is active for the event.

Crediting an Account

Generally, credits are taken for the portion of the already billed period that is being canceled. For example, if at 10 days into March, a service is canceled, and assuming it was billed through the end of March already (on a monthly frequency), 21 out of 31 days of the total invoiced will be credited. It is the remaining days (not including the day of the change) divided by the total days of that specific period that will be credited. Rate tables have no bearing on credits, as they are used to calculate charges. Actual billed days is used to calculate credits.

Reports

The initial Dealer and Third-Party Billing set up is complete. Now, monitoring companies may utilize several report options, including posting the billing to accounting software.

Dealer Billing Deferred Revenue

The Dealer Billing Deferred Revenue will be tracked when enhanced billing is licensed. The report will display the necessary deferred revenue adjustments that need to be made. The adjustments must be entered manually into the accounting software.

Dealer Billing Generate

The Dealer Billing Generate report will report on all billing discrepancies, which can then be resolved in Manitou. In the example below, the report was run for all existing Dealers:

03/10/2009 11:50

ID: BOLD

Dealer Billing Generate Report

Billing Date: 04/01/2009
 Prorate Date Limit: 02/01/2009
 Activity Start Date: 02/01/2009 00:00:00
 Activity End Date: 03/28/2009 23:59:59

<u>Dealer</u>	<u>Customer ID</u>	<u>Date</u>	<u>Message</u>
DLR001	100-01		No recurring billing info found for item code 'DLR1FIRE'. Services with this item code will not be billed.
DLR001	100-01		No add charge billing info found for item code 'DLR1FIRE'. No add charges will be generated for services with this item code.
DLR001	100-01		No recurring billing info found for item code 'O/C SUPERVISED'. Services with this item code will not be billed.
DLR001	100-01		No add charge billing info found for item code 'O/C SUPERVISED'. No add charges will be generated for services with this item code.
DLR001	100-01		No signal overage billing info found for item code 'DLR1FIRE'. No signal overage charges will be generated for services with this item code.
DLR002			Dealer is not linked to accounting. No invoice lines will be generated.
DLR003			Dealer is not linked to accounting. No invoice lines will be generated.
DLR0101	XML000001		No recurring billing info found for item code 'ALARM MONITORING'. Services with this item code will not be billed.
DLR0101	XML000001		No add charge billing info found for item code '2DT'. No add charges will be generated for services with this item code.
DLR0101	XML000002		No recurring billing info found for item code 'SILVER SERVICE'. Services with this item code will not be billed.
DLR0101	XML000003		No recurring billing info found for item code 'GOLD SERVICE'. Services with this item code will not be billed.
DLR0101	XML000005		No recurring billing info found for item code 'O/C SUPERVISED'. Services with this item code will not be billed.
DLR0101	XML000001		No signal overage billing info found for item code 'ALARM MONITORING'. No signal overage charges will be generated for services with this item code.
1982			Dealer is not linked to accounting. No invoice lines will be generated.

The first messages for DLR001 indicate that no billing charge codes were found at the Dealer or Monitoring Company Billing Charges form for the item code "DRL1FIRE." To remedy this, the appropriate billing charge code must be added to either the Dealer or the Monitoring Company. Other messages indicate that some dealers are not linked to accounting.

These messages are simply warnings, indicating that the charges will not be posted to the accounting software. Rectifying these issues will allow for the charges to be posted.

Dealer Billing Preview

The Dealer Billing Preview report will list all transactions that are ready to be posted to the accounting system for dealer billing. This preview can be run as many times as needed, and should be the last report run before running the Dealer Billing Post. Users have several options for this report. For instance, the monitoring company may wish to send out the report to each individual Dealer by selecting a specific Dealer ID. More notable options include Dealer Options and Grand Totals Options. The Dealer Options checkboxes allow the user to select whether the report should include all details, or should be summarized by charge type and/or billing code. The Grand Totals Options will display a total amount of charge types or billing types, or may be used to just show the charge type summary or the billing code summary.

03/10/2009 12:04

ID: BOLD

Dealer Billing PreviewOrder By: Customer
Show: Dealer Details, Grand Total Amt

DLR001 - Dealer One

Total: 0.00

DLR0101 - Alarm Security Install Services

<u>Customer ID</u>	<u>Name</u>	<u>Charge Type</u>	<u>Service</u>	<u>Billing Code</u>	<u>From</u>	<u>To</u>	<u>Qty</u>	<u>Price</u>	<u>Amt</u>
XML000001	Matt Narowski	Recurring	Every Other Day Test	2DT	04/01/2009	04/30/2009	1	4.00	4.00
		Prorated	Every Other Day Test	2DT	03/10/2009	03/31/2009	1	4.00	2.84
								Total:	6.84
								Grand Total:	6.84

In this example, the Dealer Billing Preview report was run for DLR001 with the Details and Total Amount options checked. These options will display the customer ID and Customer Name, the charge types associated with the customer, the services, billing codes, and the dates that the services are enabled. Additionally, all charges are added up and totaled at the end of the report.

Dealer Billing Post

Once the Dealer Billing Preview report has been run, the Dealer Billing Post report is the final step in order to post the billing to the accounting system. The only editable fields in this report is the Report Description and the Invoice Date. Checking the Invoice Date box will post the billing to that exact date in the accounting software.

03/10/2009 12:10

Dealer Billing Post Report

Invoice Date: 04/01/2009

Billing Date: 04/01/2009

DLR001

Total invoice lines created: 0

DLR0101

Total invoice lines created: 2

Finalization

Successfully created all invoices. Posting the invoices.

Successfully posted the invoices. Updating billing cycle to next month.

Summary

	Total	
Invoiced	\$	6.84
Deferred	\$	0.00
Net Invoiced	\$	6.84
Deferred Revenue Realized	\$	0.00
Net Revenue	\$	6.84

The invoice line item description is generated by Manitou. It is the monitoring type description plus various other items depending on what is being billed. For example, for a pro-rate line, the dates of the service will be shown. In accounting software, the customer ID and name are shown.

Authority

The **Authority** form allows the user to create and maintain a database of police, fire and other emergency services that the Central Station might need to contact in the even of an alarm or other emergency. Once created, Authorities may be added to the action pattern and call lists for a customer as needed.

Find an Authority Record

1. Select the Maintenance menu.
2. Select Authority. A default Authority form will appear:

Authority

Authority ID: Type:

Name:

Address

Street 1:

Street 2:

City:

State: Zip Code:

Country:

Language:

Time Zone:

Contact

Site

Home

Business

Mobile

E-mail

E-Mail

Web

Web Address:

3. On the authority form, click the magnifier button to the right of the Authority ID field.
4. Type an '*' in the value field adjacent to the Authority ID field and then click the Search button.
5. Choose the record then click Load. The selected record will now be displayed.

Create an Authority Record

1. Select Authorities from the Operations menu.
2. Click on the New button located at the top of the screen. An Add Authority box will appear:



The screenshot shows a dialog box titled "Add Authority". It contains the following fields and values:

- Contract ID: [Empty text field]
- Name: [Empty text field]
- Type: [Empty dropdown menu]
- Country: New Zealand
- Locale: English (New Zealand)
- Time Zone: Auckland, Wellington

At the bottom of the dialog are two buttons: "OK" and "Cancel".

3. Enter a unique Contract ID into the Contract ID field. Authority IDs are specific to Central Station standards.
4. Enter the Name of the authority into the Name field.
5. Select the Type of authority from the Type drop-down menu.
6. Select the Country, Language and Time zone from the drop-down menus.
7. Click OK.
8. Back at the main screen, enter the address, city, state and zip code into the appropriate fields.
9. Enter the phone numbers into the appropriate fields.
10. Enter an e-mail address if applicable.
11. Enter a Web address if applicable.

Authority Options

The **Authority Options** section contains additional information containing details on permits, false alarm tracking and dispatch charges. It is important to have this information verified when entering Authority records as it can affect how alarms are handled when an Authority needs to be dispatched.

Authority Options

Permit Required

False Alarm Tracking

Sliding Window (days)
 Calendar Period (months)
 Forever (never resets)

False Alarm Limit: 3

False Alarm Period: 12

False Alarm Starting Month: 2

Dispatch Charges

Charge Code:

1. If a permit is required, check the Permit Required box.
2. Based on the Authority's policies about false alarms, select whether the False Alarm Tracking is a Sliding Window, Calendar Period, or Forever (never resets).
3. Based on the previous selection, the options below may be made available:
 - False Alarm Limit
 - False Alarm Period
 - False Alarm Starting Month
4. Enter the appropriate numbers into the specified fields.
5. If a Charge Code is applicable, enter it into the Charge Code field.
6. Click Save.

Authority Contact List

The **Authority Contact list** contains contact information for authorities and contacts alike. Most entries will be made under Contacts. It is possible to associate another Authority as a contact for an Authority record. For example, the Fire Authority might be associated with the Police Authority to prepare for complex emergency situations.

1. On the Main Contact List screen, put the screen into Edit mode by clicking on the Edit button.
2. Click on the Add button. An Add keyholder window will appear:

Add Keyholder

Keyholder Global Keyholder



Name:


Country:


Language:


Time Zone:

Contact

 Site 

Home 

Business 

Mobile 

OK Cancel

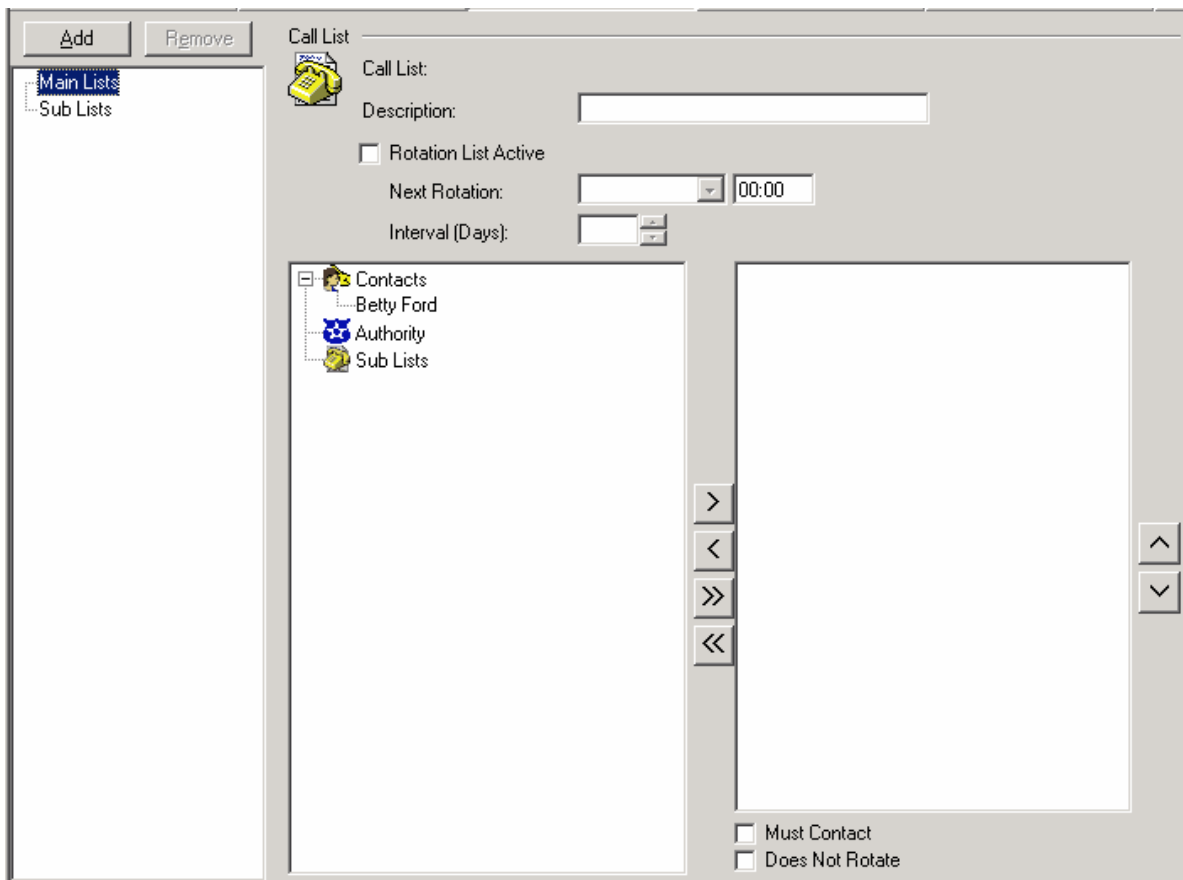
3. Select whether the contact is a Keyholder or Global Keyholder.
4. Enter the name of the contact into the Name field.
5. Select the Country, Language, and Time Zone of the contact.
6. Enter the Contact's site, home, business and/or mobile phone numbers.
7. Click OK.
8. Back at the main screen, enter a title and/or suffix for the contact.
9. Enter the Job Title of the contact into the Job Title field.
10. Select the birthday of the contact from the calendar.
11. If applicable, click or tab into the Valid To field and use the drop-down arrow to select a date from the calendar.
12. If the Contact will be inactive for a period of time, indicate that with the Inactive From and Inactive To fields. Use the drop-down arrows to select dates from the calendar for each field.
13. Select the Contact Information tab (the house icon).
14. Enter any additional information into the E-mail, Web address and mail address fields.

15. Select the Notes tab (the notepad icon).
16. Enter any notes that pertain to the contact.
17. Click Save.

Authority Call Lists

Call Lists for Authorities contain the details of all the people requiring contact for a given alarm type. Rotation lists are often in place to ensure that one Keyholder is not the only Keyholder contacted each time there is an alarm. Call Lists are lists of contact, grouped and ordered based on alarm-types and priority.


1. Select Call Lists from the Authority Jump To menu. The Call List screen will appear:



2. Click on the Add button. An Add Call List window will appear:

Add Call Lists


Call List

 Name:


Description:

Type:

Member Matrix

 Display Contact Points

Call List Members	
Type	Contacts
▶ Keyholder	Betty Ford

3. Enter a four-character code in the Name field.
4. Enter a brief description into the Description field.
5. Select Main List or Sub List from the Type drop-down menu. Main Lists may contain other call lists while Sub Lists cannot include other call lists.
6. Click on Add to Matrix.
7. Click OK.
8. If the list is a Main Call List, select Main. If it is a Sub List of a Main list, select Sub List.
9. Click Add to Matrix. The Call List will be added to the Customer's account.
10. Click OK.
11. Back at the Call List form, select the item or items from the Contacts list that should appear in the Call List. Contacts appearing in the list should be previously added in the Contacts form of the customer record.
12. Move the Contacts over to the Call List by clicking on . The Contacts will now appear in the Call List.

13. Move list items up and down based on priority by clicking on the up/down arrows to the right of the Call List.
14. If the Call List rotates, check the Rotation List Active checkbox. The contact at the top of the list will automatically be the head of the list, indicated by an icon that appears when the Rotation List Active checkbox is checked. This contact will be first in rotation.
15. Indicate the Next Rotation date by selecting the correct date from the calendar. The start date defaults to the current day.
16. Set the rotation interval by clicking on the up/down arrows to set the number of days each rotation is active before rotating.
17. If a Contact on the list is a Must Contact or Does not Rotate, select the appropriate Contact and check the applicable boxes.
18. Once all contacts are added, click Save.

Authority Attentionions

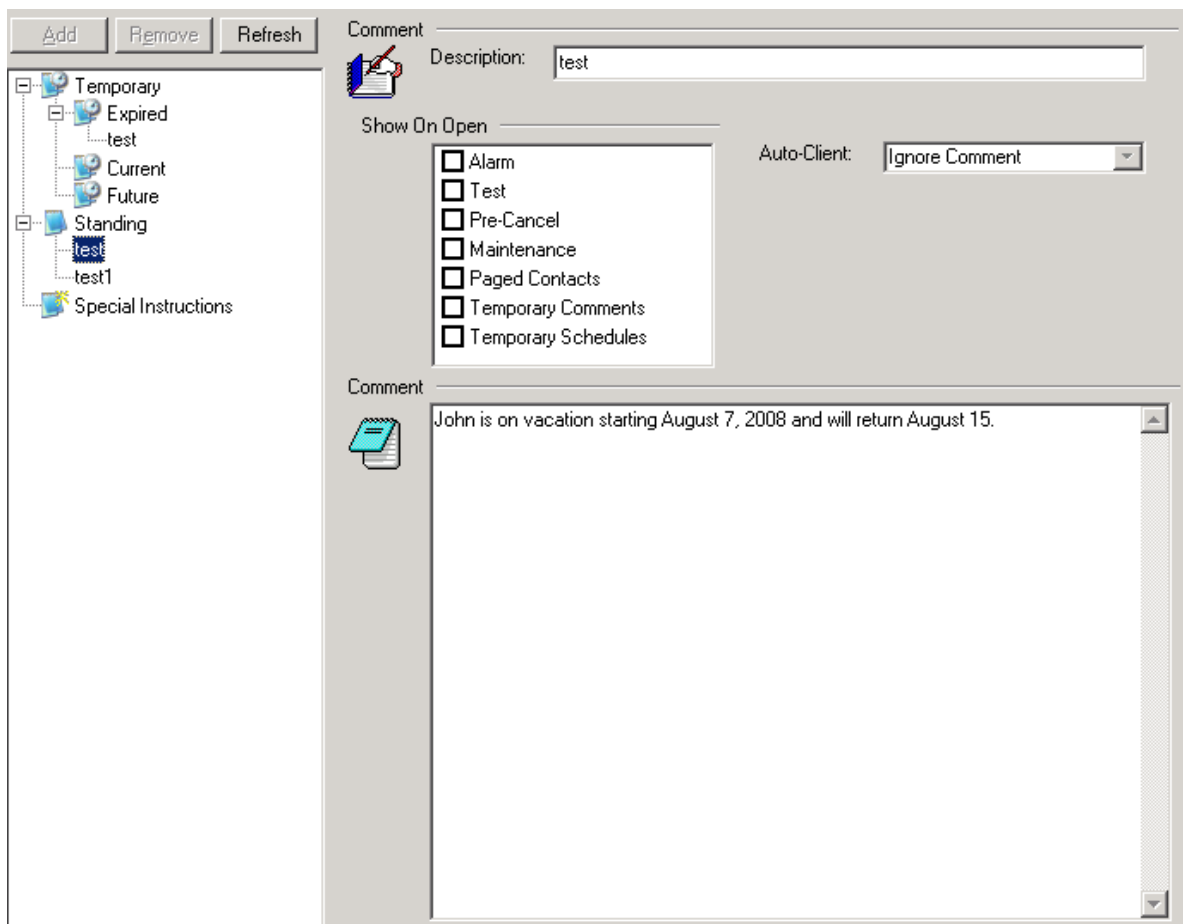
Authority Attentionions are used for the sole purpose of printing and mailing paper copies of reports run through Manitou. If an Attention is entered, Manitou will print that attention prior to printing out the physical address of the recipient.

Attention Type	Contact
Mailing	
Invoice	
Shipping	
Reporting	

1. Enter an attention into the appropriate field by first clicking on the Edit button to put the screen into edit mode.
2. Click in the appropriate field.
3. Select the contact from the drop-down menu. (Note: For Contacts to appear, they must first be entered into the Contact List).
4. Click Save.

Authority Comments

The **Authority Comments** area allows users to view, enter, or edit temporary, current, future, and special instruction for a customer. The Comment area also offers users access to view expired comments about a customer.



1. Select the Edit tab at the top of the Comment screen.
2. Above the tree menu there are three buttons Add, Remove, and Refresh. Select the Add button to add a comment into the tree menu and onto the customers account. The Add Comment screen will display.
3. Select the Comment Type by clicking the circle that fits the type of comment that will be added.
 - **Temporary** - A Temporary note will only appear within a duration set by the Operator.
 1. Click the Add button above the list of Note types.
 2. In the prompt box verify that the correct radio button is selected - Temporary.
 3. Type a name to identify this Temporary Note and click OK to return to the main Notes screen.
 4. Use the drop-down arrows to select a Valid From and To date from the calendar interface; and use the up/down roll arrows to indicate the Valid From and To times. The Temporary Note will only be associated with this record for the duration specified by these date and time parameters.
 5. Type the body of the note into the large text area beneath the date/time fields.
 6. Save the record or make other changes to the notes Tab.

- **Standing** - A Standing note is always true for the Customer record (until edited or deleted).
 1. Click the Add button above the list of Note types.
 2. In the prompt box verify that the correct radio button is selected - Standing
 3. Type a name to identify this Standing Note and click OK to return to the main Notes screen.
 4. Type the body of the note into the large text area beneath the date/time fields. Since this is a more permanent note type, there are no date and time parameters. This note is valid until edited or deleted.
 5. Save the record or make other changes to the notes Tab.


- **Special Instructions** - Special Instructions are selected from a drop-down. The list items are entered on the Notes tab of the Central Station record.
 1. Click the Add button above the list of Note types.
 2. In the prompt box verify that the correct radio button is selected - Special Instructions.
 3. Using the drop-down arrow select one of the Special Instructions Notes from the list.
 4. The associated note appears automatically in the text field. This note is valid until edited or removed.
 5. Save the record or make other changes to the notes Tab.

- **In House** - In House Notes are only visible to the Central Station. They are not available to the Dealer when logged into Manitou remotely.
 1. Click the Add button above the list of Note types.
 2. In the prompt box verify that the correct radio button is selected - Special Instructions.
 3. Using the drop-down arrow select one of the Special Instructions Notes from the list.
 4. The associated note appears automatically in the text field. This note is valid until edited or removed.
 5. Save the record or make other changes to the notes Tab.

Authority General Schedules

Authority General Schedules define the availability of Keyholders, schedules, and hours of executive protection.


General Schedules



Name:

Description:

Type:

General Schedules													
	Week							Time				Date	
	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Start 1	End 1	Start 2	End 2	From	To
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	07:00	08:00				
*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						

1. Click on General Schedules in the Jump To menu.
2. Click on the Add button. An Add Schedule box will appear:

Add Schedule

Code:

Description:

Type:

3. Enter a brief four-letter code into the Code field.
4. Enter a brief description into the Description field.
5. Select a Type from the drop-down menu.
6. Click OK to return to the main General Schedules screen.
7. Select the days of the week to be included in the General Schedule by checking the appropriate checkboxes.
8. In the Start 1 and End 1 cells, enter the first Start and End time. If applicable, enter a second Start and End time. For example, there may be some times when a keyholder is available during regular business hours, however they may be unavailable during a commute home. This is when two start and end times would be utilized.
9. In the From and To date cells, enter the the dates which this schedule is applicable. Enter only numbers, as Manitou will automatically insert the date separators.

10.Repeat as necessary to add any additional schedules.

11.Click Save.

Maintenance Issues

The Maintenance Issues form is similar to the global Maintenance Issues form; however, only maintenance issues for the Authority are displayed on the local Maintenance Issues form. Since only the Authority's issues are displayed, the filtering tab is not needed.

Additionally, all resolved and unresolved issues are displayed. Adding, editing, and clearing of the issues is similar to the global form, but this functionality is locked out when editing the Authority since the maintenance issues do not participate in locking scheme for the Authority. When editing and saving an entity with outstanding maintenance issues, the Operator is prompted for each issue to determine if it was resolved, and for the operator to resolve, purge or update the issue:

Maintenance Issue

Outstanding Maintenance Issue for Kailey Mohrman. Did you resolve this issue?

Kathy reported an issue with her panel.

Notes:

Problem was reported on 8/8/08.


Resolve Issue Resolve and Purge

Update Notes Take No Action

Note: Maintenance lists may be sorted with the exception of the Description and Notes columns.

Edit or Remove an Authority Record

Edit an Authority

1. Click the Search icon  to the right of the Authority ID field.
2. Scroll through the list of authorities to locate and select the desired Authority ID. Double-click on that record, or click Load at the bottom of the screen.
3. Click the Edit button located at the top of the Application view.
4. Tab or Click into the applicable field to change and make all necessary edits.
5. Review all changes for accuracy, then click Save.

Remove an Authority

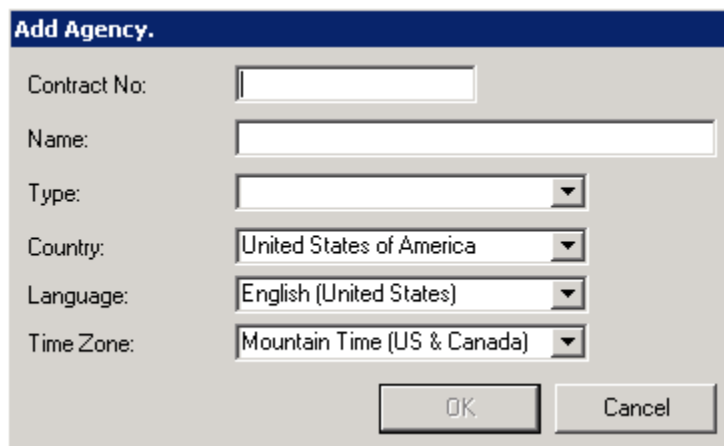
1. Click the Search icon to the right of the Authority ID field.
2. Locate and select the Authority ID.
3. Click Delete.
4. Confirm the deletion.
5. There is no Undo function when Deleting Authority records. If the wrong record is deleted it must be re-entered as a new Authority.

Agency

Agencies are companies that assist the Central Station in business-related areas, such as facility maintenance, alarm equipment providers, IT support consultants, and others. Any time you would have to use a contact point on a multiple account. The Following sections detail how to add, edit and delete Agency information:

Add an Agency

1. Select Agency from the Operations menu.
2. Click on the New button located at the top of the screen. An Add Branch box will appear:



Add Agency.

Contract No:

Name:

Type:

Country:

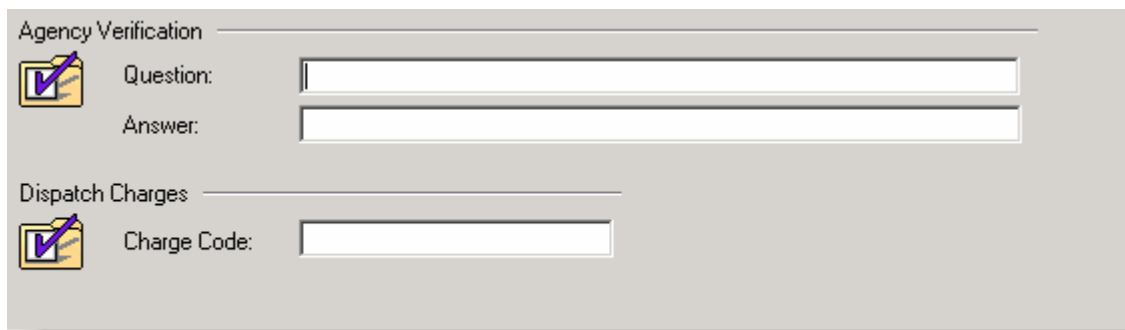
Language:

Time Zone:

3. Enter a unique Contract ID into the Contract ID field. Branch IDs are specific to Central Station standards.
4. Enter the Name of the Branch into the Name field.
5. Select the Type of Branch from the Type drop-down menu.
6. Select the Country, Language and Time zone from the drop-down menus.
7. Click OK.
8. Back at the main screen, enter the address, city, state and zip code into the appropriate fields.
9. Enter the phone numbers into the appropriate fields.
10. Enter an e-mail address if applicable.

Agency Options

The **Agency Options** tab contains additional information regarding the verification of the Agency, as well as charge codes for dispatch.



The screenshot shows a software interface with two sections. The first section, titled "Agency Verification", contains a yellow icon with a checkmark and a pencil, followed by a "Question:" label and a text input field, and an "Answer:" label and another text input field. The second section, titled "Dispatch Charges", contains a similar yellow icon with a checkmark and a pencil, followed by a "Charge Code:" label and a text input field.

1. Click Edit at the top of the Application view to put the screen into Edit mode.
2. Type in a Verification Question that the Agency representative should answer to verify identity.
3. Type in the expected Answer to the Verification Question.
4. Enter the Charge Code into the Charge Code field.
5. Save the record or click on another tab to enter more Agency information.

Agency Contact List

The **Agency Contact list** contains contact information for agencies and contacts alike. Most entries will be made under Contacts.

The screenshot displays the 'Contact' edit window in the Manitou Client 1.5.2 software. The window is divided into several sections:

- Contact Information:** Fields for Contact ID, Name (JIM), Type (Keyholder), Title, Suffix, JobTitle, and Birthday.
- Access:** A list of permissions with checkboxes:
 - Permissions suspended
 - Can Open/Close within schedule
 - Can Open/Close within temp open window
 - Can Open/Close anytime
 - Can cancel Alarm
 - Can authorize a schedule change
 - Can put system Out of Service
 - Can edit Customer
 - Can give out Customer information
- Passwords:** Fields for Password (GRAY), User No. (11), and Temp Open Time (0).
- Availability:** Fields for Valid From (05/24/2007), Inactive From, and To dates.

On the left side, there is a tree view showing 'Contacts' (with sub-items JIM, Mike, Doug) and 'Agencies'. The top of the window has 'Add' and 'Remove' buttons. The right side has navigation icons for home and help.

1. On the Main Contact List screen, put the screen into Edit mode by clicking on the Edit button.
2. Click on the Add button. An Add keyholder window will appear:

Add Keyholder

Keyholder Global Keyholder



Name:


Country:


Language:


Time Zone:

Contact

 Site 

Home 

Business 

Mobile 

OK Cancel

3. Select whether the contact is a Keyholder or Global Keyholder.
4. Enter the name of the contact into the Name field.
5. Select the Country, Language, and Time Zone of the contact.
6. Enter the Contact's site, home, business and/or mobile phone numbers.
7. Click OK.
8. Back at the main screen, enter a title and/or suffix for the contact.
9. Enter the Job Title of the contact into the Job Title field.
10. Select the birthday of the contact from the calendar.
11. Select the Access permissions for this Agency in the Access box.
12. Enter a Password, User No. and Temp Open Time into the appropriate fields.
13. If applicable, click or tab into the Valid To field and use the drop-down arrow to select a date from the calendar.
14. If the Contact will be inactive for a period of time, indicate that with the Inactive From and Inactive To fields. Use the drop-down arrows to select dates from the calendar for each field.

Contact Information Tab

1. Click the House tab on the right side of the Application view.
2. Use the drop-down arrow located to the left of the top telephone number field to select a telephone number type from the list.
3. Click the notepad icon to the left of the first telephone number field and select Properties.
4. Enter the area code, phone number and extension (if applicable) into the fields available.
5. Use the drop-down arrow to the right of the Email label to select the Email address to enter (Email, Email 2 or Email 3).
6. Click into the Email address field and type in the entire Email address.
7. Repeat the above three steps for up to three Email addresses.
8. Tab or click into the Web Address field. Manitou automatically copies the text after the @ symbol in the Email address and adds 'www' to auto-fill the Web address. By default the Web address is highlighted for removal or overwriting. If there is no Web address delete that entry. If a different URL is necessary, enter the correct Web address.
9. Use the drop-down arrow to the left of the "This is the Mailing Address" title, to select an address type.
10. Click or Tab into the Street 1 field and enter the first line of address information for this Contact
11. Click or Tab into the Street 2 field and enter any additional address or suite information.
12. Click or Tab into the City field and enter the City/County name.
13. Click or Tab into the State field and use the drop-down arrow to the right of the State field to select the applicable state.
14. Click or Tab into the Zip code field and enter the Zip code.
15. Check the checkbox if the address is also the mailing address.
16. Move on to the Notes tab.

Notes Tab

1. Click the Note Pad Tab on the right of the Application View to open the Notes screen.
2. Enter any notes that pertain to the Contact.

3. Save the record or click on another tab to enter more Monitoring Company information.

Note: In order for Agencies to have the ability to authorize a schedule change for a customer, the "Can Edit Customer" button must be checked in the Agency contact's Permissions list.

Agency Call Lists

Call Lists for Agencies contain the details of all the people requiring contact for a given alarm type. Rotation lists are often in place to ensure that one Keyholder is not the only Keyholder contacted each time there is an alarm. Call Lists are lists of contact, grouped and ordered based on alarm-types and priority.


1. Select Call Lists from the Branch Jump To menu. The Call List screen will appear:

The screenshot shows a software interface for managing Call Lists. At the top left, there are 'Add' and 'Remove' buttons. Below them is a tree view with 'Main Lists' and 'Sub Lists' options. The main area is titled 'Call List' and contains a telephone icon, a 'Description' text box, a 'Rotation List Active' checkbox, a 'Next Rotation' field with a dropdown and a '00:00' time display, and an 'Interval (Days)' field with a spinner. Below this is a tree view of contacts: 'Contacts' (expanded) containing 'Paul' (with 'Home ((719) 342-1093)' and 'E-Mail (me@me.com)') and 'Branch' (with 'Sub Lists'). To the right of the contact tree is a large empty list box with navigation buttons: '>', '<', '>>', '<<', '^', and 'v'. At the bottom right, there are two checkboxes: 'Must Contact' and 'Does Not Rotate'.

2. Click on the Add button. An Add Call List window will appear:

Add Call Lists


Call List

 Name:


Description:

Type:

Member Matrix

 Display Contact Points

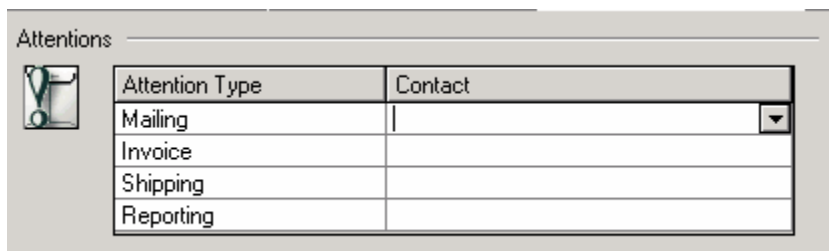
Call List Members	
Type	Contacts
▶ Keyholder	Betty Ford

3. Enter a four-character code in the Name field.
4. Enter a brief description into the Description field.
5. Select Main List or Sub List from the Type drop-down menu. Main Lists may contain other call lists while Sub Lists cannot include other call lists.
6. Click on Add to Matrix.
7. Click OK.
8. If the list is a Main Call List, select Main. If it is a Sub List of a Main list, select Sub List.
9. Click Add to Matrix. The Call List will be added to the Customer's account.
10. Click OK.
11. Back at the Call List form, select the item or items from the Contacts list that should appear in the Call List. Contacts appearing in the list should be previously added in the Contacts form of the customer record.
12. Move the Contacts over to the Call List by clicking on . The Contacts will now appear in the Call List.

13. Move list items up and down based on priority by clicking on the up/down arrows to the right of the Call List.
14. If the Call List rotates, check the Rotation List Active checkbox. The contact at the top of the list will automatically be the head of the list, indicated by an icon that appears when the Rotation List Active checkbox is checked. This contact will be first in rotation.
15. Indicate the Next Rotation date by selecting the correct date from the calendar. The start date defaults to the current day.
16. Set the rotation interval by clicking on the up/down arrows to set the number of days each rotation is active before rotating.
17. If a Contact on the list is a Must Contact or Does not Rotate, select the appropriate Contact and check the applicable boxes.
18. Once all contacts are added, click Save.

Agency Attention

Agency Attention are used for the sole purpose of printing and mailing paper copies of reports run through Manitou. If an Attention is entered, Manitou will print that attention prior to printing out the physical address of the recipient.



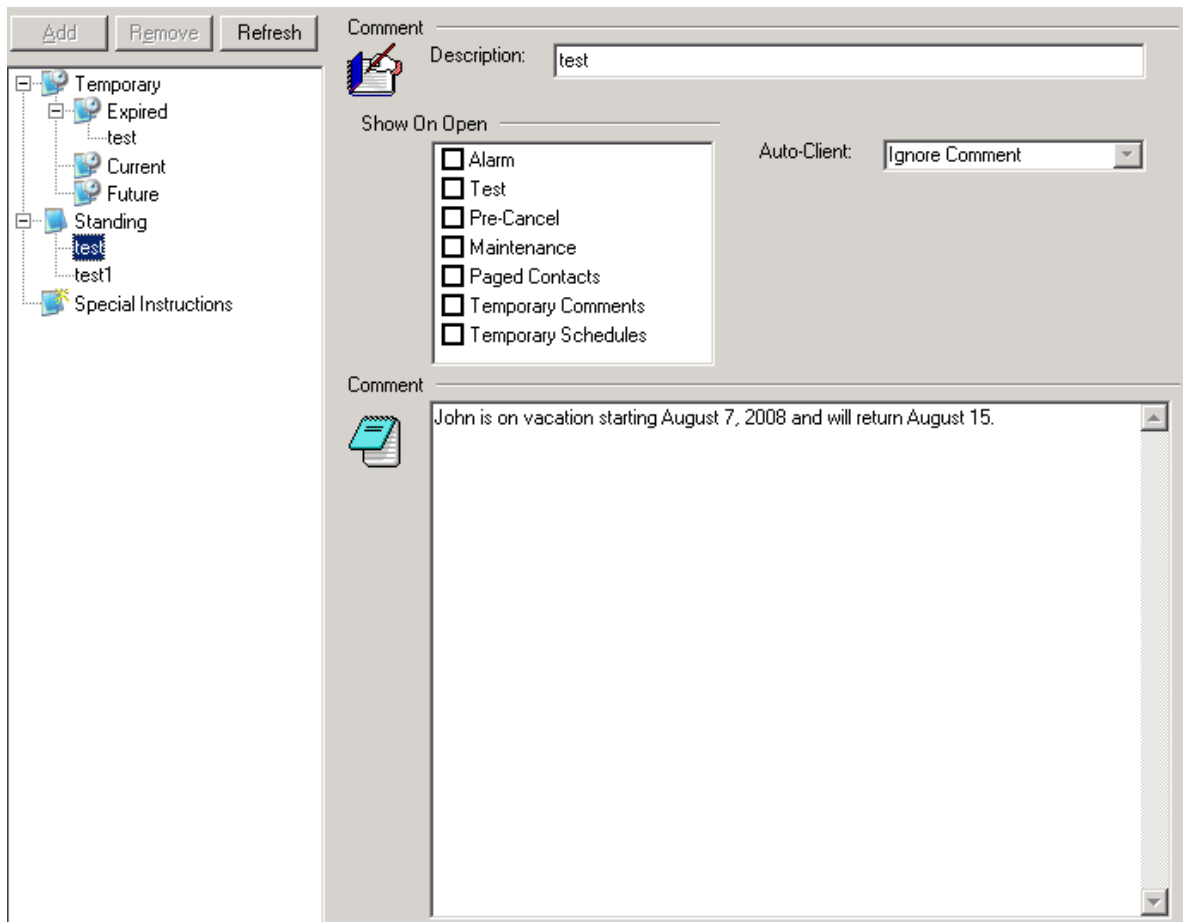
The screenshot shows a window titled "Attentions" with a table. The table has two columns: "Attention Type" and "Contact". The "Attention Type" column lists "Mailing", "Invoice", "Shipping", and "Reporting". The "Contact" column is empty, and there is a small downward arrow icon in the top right corner of the table, indicating a drop-down menu.

Attention Type	Contact
Mailing	
Invoice	
Shipping	
Reporting	

1. Enter an attention into the appropriate field by first clicking on the Edit button to put the screen into edit mode.
2. Click in the appropriate field.
3. Select the contact from the drop-down menu. (Note: For Contacts to appear, they must first be entered into the Contact List).
4. Click Save.

Agency Comments

The **Agency Comments** area allows users to view, enter, or edit temporary, current, future, and special instruction for a customer. The Comment area also offers users access to view expired comments about a customer.



1. Select the Edit tab at the top of the Comment screen.
2. Above the tree menu there are three buttons Add, Remove, and Refresh. Select the Add button to add a comment into the tree menu and onto the customers account. The Add Comment screen will display.
3. Select the Comment Type by clicking the circle that fits the type of comment that will be added.
 - **Temporary** - A Temporary note will only appear within a duration set by the Operator.
 1. Click the Add button above the list of Note types.
 2. In the prompt box verify that the correct radio button is selected - Temporary.
 3. Type a name to identify this Temporary Note and click OK to return to the main Notes screen.
 4. Use the drop-down arrows to select a Valid From and To date from the calendar interface; and use the up/down roll arrows to indicate the Valid From and To times. The Temporary Note will only be associated with this record for the duration specified by these date and time parameters.
 5. Type the body of the note into the large text area beneath the date/time fields.
 6. Save the record or make other changes to the notes Tab.

- **Standing** - A Standing note is always true for the Customer record (until edited or deleted).
 1. Click the Add button above the list of Note types.
 2. In the prompt box verify that the correct radio button is selected - Standing
 3. Type a name to identify this Standing Note and click OK to return to the main Notes screen.
 4. Type the body of the note into the large text area beneath the date/time fields. Since this is a more permanent note type, there are no date and time parameters. This note is valid until edited or deleted.
 5. Save the record or make other changes to the notes Tab.


- **Special Instructions** - Special Instructions are selected from a drop-down. The list items are entered on the Notes tab of the Central Station record.
 1. Click the Add button above the list of Note types.
 2. In the prompt box verify that the correct radio button is selected - Special Instructions.
 3. Using the drop-down arrow select one of the Special Instructions Notes from the list.
 4. The associated note appears automatically in the text field. This note is valid until edited or removed.
 5. Save the record or make other changes to the notes Tab.

- **In House** - In House Notes are only visible to the Central Station. They are not available to the Dealer when logged into Manitou remotely.
 1. Click the Add button above the list of Note types.
 2. In the prompt box verify that the correct radio button is selected - Special Instructions.
 3. Using the drop-down arrow select one of the Special Instructions Notes from the list.
 4. The associated note appears automatically in the text field. This note is valid until edited or removed.
 5. Save the record or make other changes to the notes Tab.

Agency General Schedules

Agency General Schedules define the availability of Keyholders, schedules, and hours of executive protection.



General Schedules



Name:

Description:

Type:

General Schedules													
	Week							Time				Date	
	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Start 1	End 1	Start 2	End 2	From	To
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	07:00	08:00				
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						

1. Click on General Schedules in the Jump To menu.
2. Click on the Add button. An Add Schedule box will appear:

Add Schedule

Code:

Description:

Type:

3. Enter a brief four-letter code into the Code field.
4. Enter a brief description into the Description field.
5. Select a Type from the drop-down menu.
6. Click OK to return to the main General Schedules screen.
7. Select the days of the week to be included in the General Schedule by checking the appropriate checkboxes.
8. In the Start 1 and End 1 cells, enter the first Start and End time. If applicable, enter a second Start and End time. For example, there may be some times when a keyholder is available during regular business hours, however they may be unavailable during a commute home. This is when two start and end times would be utilized.
9. In the From and To date cells, enter the the dates which this schedule is applicable. Enter only numbers, as Manitou will automatically insert the date separators.

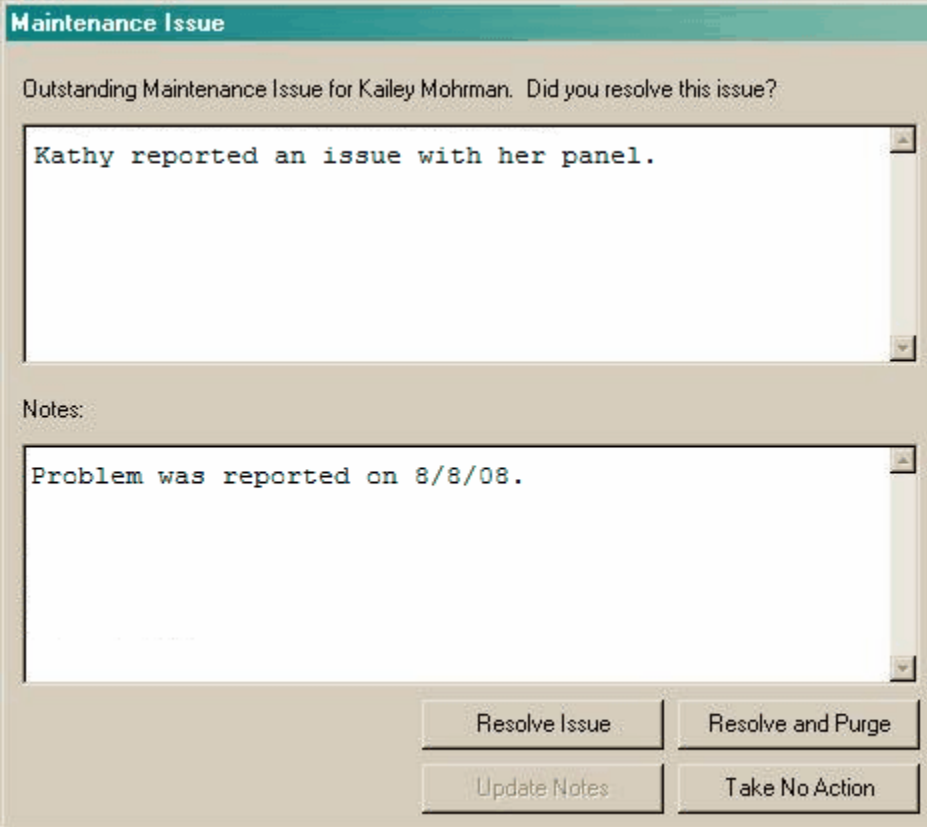
10.Repeat as necessary to add any additional schedules.

11.Click Save.

Maintenance Issues

The Maintenance Issues form is similar to the global Maintenance Issues form; however, only maintenance issues for the Agency are displayed on the local Maintenance Issues form. Since only the Agency's issues are displayed, the filtering tab is not needed.

Additionally, all resolved and unresolved issues are displayed. Adding, editing, and clearing of the issues is similar to the global form, but this functionality is locked out when editing the Agency since the maintenance issues do not participate in locking scheme for the Agency. When editing and saving an entity with outstanding maintenance issues, the Operator is prompted for each issue to determine if it was resolved, and for the operator to resolve, purge or update the issue:



The screenshot shows a window titled "Maintenance Issue" with a teal header. The main content area contains the text "Outstanding Maintenance Issue for Kailey Mohrman. Did you resolve this issue?". Below this is a large text area containing the text "Kathy reported an issue with her panel." in a monospaced font. Underneath the text area is a "Notes:" label followed by another text area containing "Problem was reported on 8/8/08." in a monospaced font. At the bottom of the window, there are four buttons: "Resolve Issue", "Resolve and Purge", "Update Notes", and "Take No Action".

Note: Maintenance lists may be sorted with the exception of the Description and Notes columns.

Edit or Remove an Agency Record

Edit an Agency

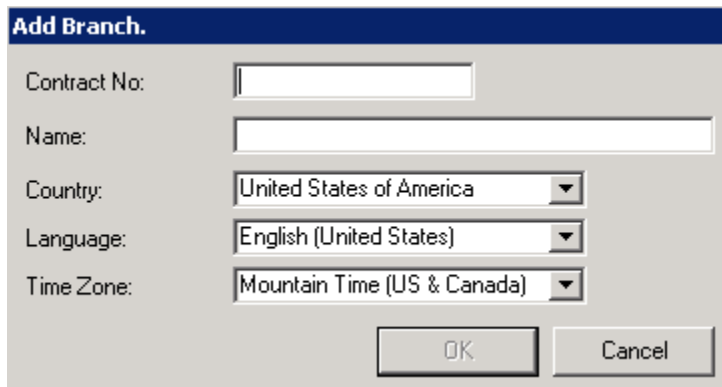
1. Click the Search icon to the right of the Agency ID field.
2. Locate and select the Agency ID.
3. Tab or Click into the applicable field(s) to change and make all necessary edits.
4. Review all changes for accuracy, then click Save.

Remove an Agency

1. Click the Search icon to the right of the Agency ID field.
2. Locate and select the Agency ID.
3. Click Delete.
4. Confirm the deletion.
5. Ensure the correct items were removed then click Save. If the wrong item was removed, click Cancel and start again.

Branch

1. Select Branch from the Operations menu.
2. Click on the New button located at the top of the screen. An Add Branch box will appear:



The screenshot shows a dialog box titled "Add Branch." with a light gray background and a dark blue title bar. It contains five input fields arranged vertically: "Contract No:" with a text box, "Name:" with a text box, "Country:" with a dropdown menu showing "United States of America", "Language:" with a dropdown menu showing "English (United States)", and "Time Zone:" with a dropdown menu showing "Mountain Time (US & Canada)". At the bottom of the dialog are two buttons: "OK" and "Cancel".

3. Enter a unique Contract ID into the Contract ID field. Branch IDs are specific to Central Station standards.
4. Enter the Name of the Branch into the Name field.

5. Select the Type of Branch from the Type drop-down menu.
6. Select the Country, Language and Time zone from the drop-down menus.
7. Click OK.
8. Back at the main screen, enter the address, city, state and zip code into the appropriate fields.
9. Enter the phone numbers into the appropriate fields.
10. Enter an e-mail address if applicable.

Branch Contact List

The **Branch Contact list** contains contact information for authorities and contacts alike. Most entries will be made under Contacts.

1. On the Main Contact List screen, put the screen into Edit mode by clicking on the Edit button.
2. Click on the Add button. An Add keyholder window will appear:

Add Keyholder

Keyholder Global Keyholder



Name:


Country:


Language:


Time Zone:

Contact

 Site 

Home 

Business 

Mobile 

OK Cancel

3. Select whether the contact is a Keyholder or Global Keyholder.
4. Enter the name of the contact into the Name field.
5. Select the Country, Language, and Time Zone of the contact.

6. Enter the Contact's site, home, business and/or mobile phone numbers.
7. Click OK.
8. Back at the main screen, enter a title and/or suffix for the contact.
9. Enter the Job Title of the contact into the Job Title field.
10. Select the birthday of the contact from the calendar.
11. Select the Access permissions for this branch in the Access box.
12. If applicable, click or tab into the Valid To field and use the drop-down arrow to select a date from the calendar.
13. If the Contact will be inactive for a period of time, indicate that with the Inactive From and Inactive To fields. Use the drop-down arrows to select dates from the calendar for each field.
14. Select the Contact Information tab (the house icon).
15. Enter any additional information into the E-mail, Web address and mail address fields.
16. Select the Notes tab (the notepad icon).
17. Enter any notes that pertain to the contact.
18. Click Save.

Contact Information Tab

1. Click the House tab on the right side of the Application view.
2. Use the drop-down arrow located to the left of the top telephone number field to select a telephone number type from the list.
3. Click the notepad icon to the left of the first telephone number field and select Properties.
4. Enter the area code, phone number and extension (if applicable) into the fields available.
5. Use the drop-down arrow to the right of the Email label to select the Email address to enter (Email, Email 2 or Email 3).
6. Click into the Email address field and type in the entire Email address.
7. Repeat the above three steps for up to three Email addresses.

8. Tab or click into the Web Address field. Manitou automatically copies the text after the @ symbol in the Email address and adds 'www' to auto-fill the Web address. By default the Web address is highlighted for removal or overwriting. If there is no Web address delete that entry. If a different URL is necessary, enter the correct Web address.
9. Use the drop-down arrow to the left of the "This is the Mailing Address" title, to select an address type.
10. Click or Tab into the Street 1 field and enter the first line of address information for this Contact
11. Click or Tab into the Street 2 field and enter any additional address or suite information.
12. Click or Tab into the City field and enter the City/County name.
13. Click or Tab into the State field and use the drop-down arrow to the right of the State field to select the applicable state.
14. Click or Tab into the Zip code field and enter the Zip code.
15. Check the checkbox if the address is also the mailing address.
16. Move on to the Notes tab.

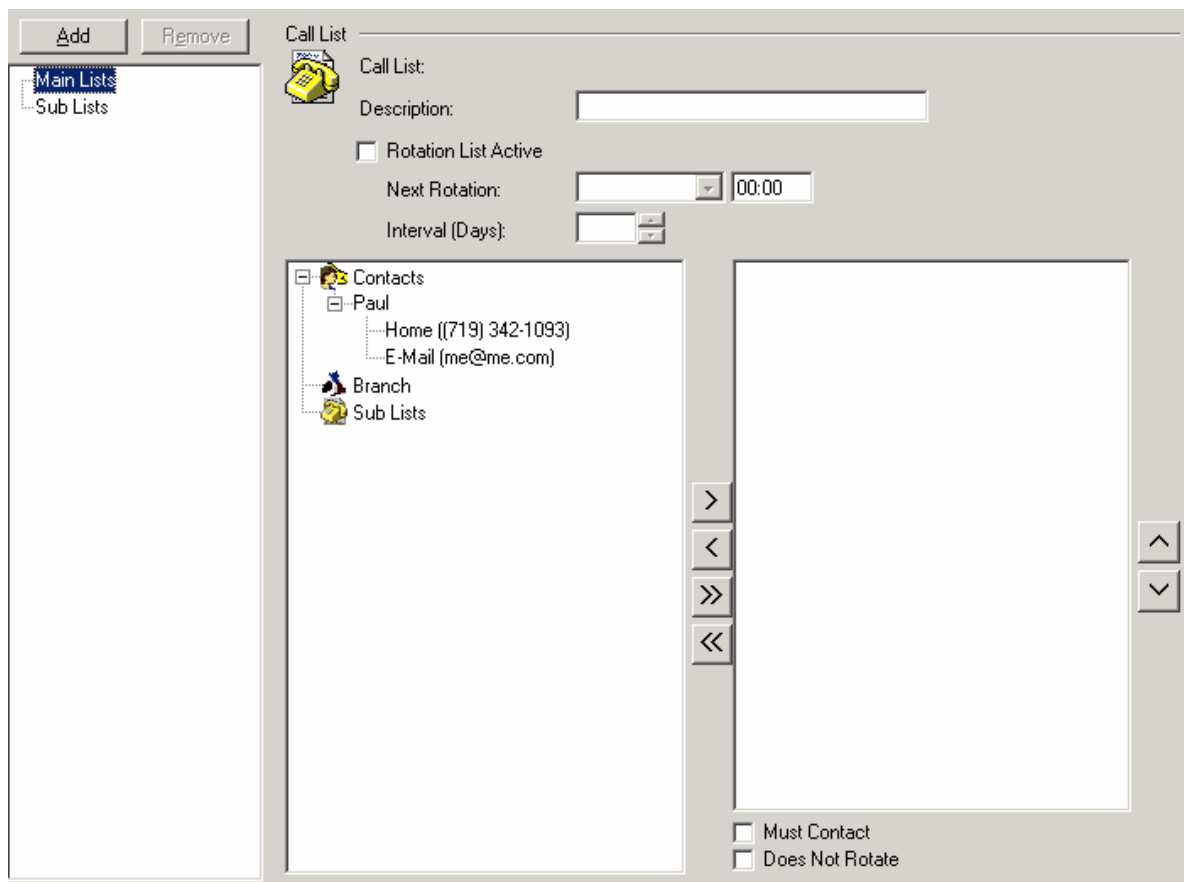
Notes Tab

1. Click the Note Pad Tab on the right of the Application View to open the Notes screen.
2. Enter any notes that pertain to the Contact.
3. Save the record or click on another tab to enter more Monitoring Company information.

Branch Call List

Call Lists for Branches contain the details of all the people requiring contact for a given alarm type. Rotation lists are often in place to ensure that one Keyholder is not the only Keyholder contacted each time there is an alarm. Call Lists are lists of contact, grouped and ordered based on alarm-types and priority.


1. Select Call Lists from the Branch Jump To menu. The Call List screen will appear:



2. Click on the Add button. An Add Call List window will appear:

Add Call Lists


Call List

 Name:


Description:

Type:

Member Matrix

 Display Contact Points

Call List Members	
Type	Contacts
▶ Keyholder	Betty Ford

3. Enter a four-character code in the Name field.
4. Enter a brief description into the Description field.
5. Select Main List or Sub List from the Type drop-down menu. Main Lists may contain other call lists while Sub Lists cannot include other call lists.
6. Click on Add to Matrix.
7. Click OK.
8. If the list is a Main Call List, select Main. If it is a Sub List of a Main list, select Sub List.
9. Click Add to Matrix. The Call List will be added to the Customer's account.
10. Click OK.
11. Back at the Call List form, select the item or items from the Contacts list that should appear in the Call List. Contacts appearing in the list should be previously added in the Contacts form of the customer record.
12. Move the Contacts over to the Call List by clicking on . The Contacts will now appear in the Call List.

13. Move list items up and down based on priority by clicking on the up/down arrows to the right of the Call List.
14. If the Call List rotates, check the Rotation List Active checkbox. The contact at the top of the list will automatically be the head of the list, indicated by an icon that appears when the Rotation List Active checkbox is checked. This contact will be first in rotation.
15. Indicate the Next Rotation date by selecting the correct date from the calendar. The start date defaults to the current day.
16. Set the rotation interval by clicking on the up/down arrows to set the number of days each rotation is active before rotating.
17. If a Contact on the list is a Must Contact or Does not Rotate, select the appropriate Contact and check the applicable boxes.
18. Once all contacts are added, click Save.

Branch Attentions

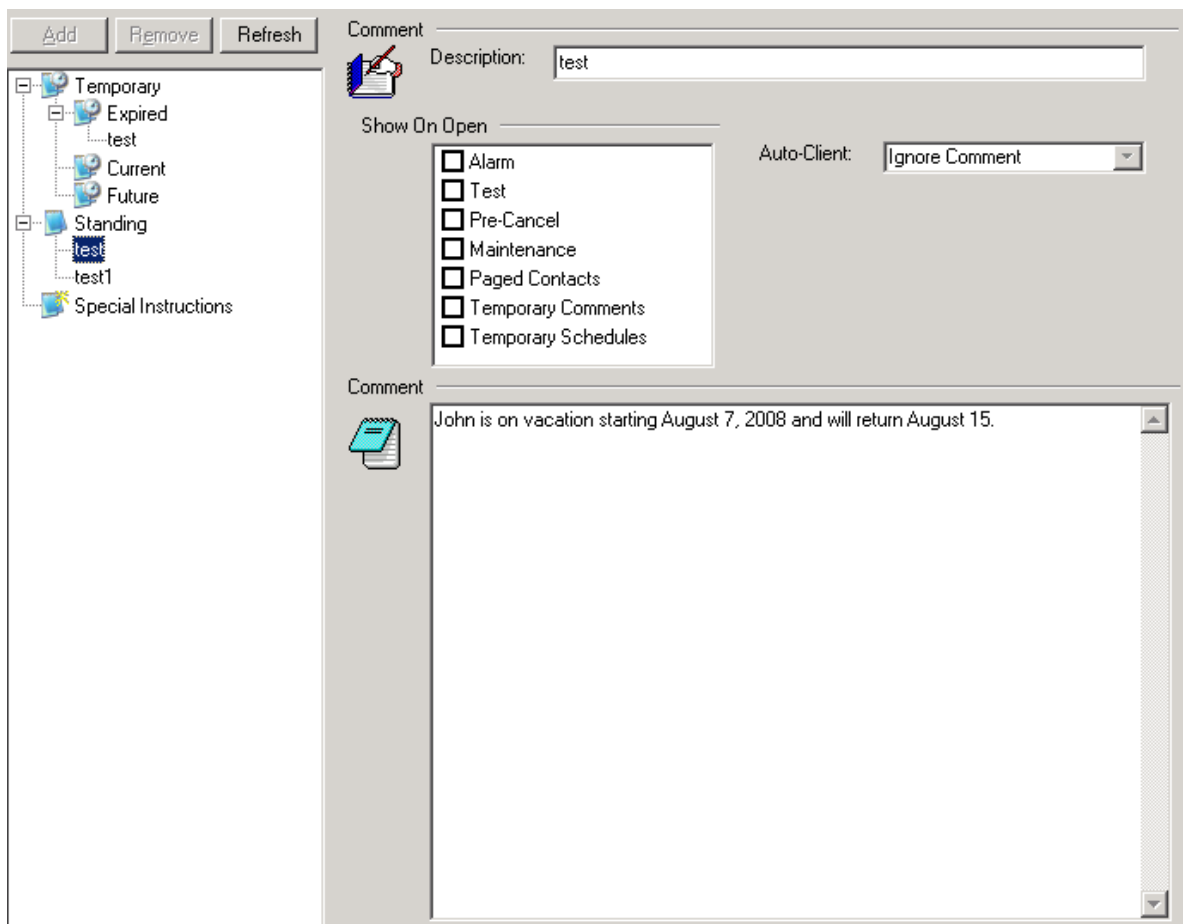
Branch Attentions are used for the sole purpose of printing and mailing paper copies of reports run through Manitou. If an Attention is entered, Manitou will print that attention prior to printing out the physical address of the recipient.

Attention Type	Contact
Mailing	
Invoice	
Shipping	
Reporting	

1. Enter an attention into the appropriate field by first clicking on the Edit button to put the screen into edit mode.
2. Click in the appropriate field.
3. Select the contact from the drop-down menu. (Note: For Contacts to appear, they must first be entered into the Contact List).
4. Click Save.

Branch Comments

The **Branch Comments** area allows users to view, enter, or edit temporary, current, future, and special instruction for a customer. The Comment area also offers users access to view expired comments about a customer.



1. Select the Edit tab at the top of the Comment screen.
2. Above the tree menu there are three buttons Add, Remove, and Refresh. Select the Add button to add a comment into the tree menu and onto the customers account. The Add Comment screen will display.
3. Select the Comment Type by clicking the circle that fits the type of comment that will be added.
 - **Temporary** - A Temporary note will only appear within a duration set by the Operator.
 1. Click the Add button above the list of Note types.
 2. In the prompt box verify that the correct radio button is selected - Temporary.
 3. Type a name to identify this Temporary Note and click OK to return to the main Notes screen.
 4. Use the drop-down arrows to select a Valid From and To date from the calendar interface; and use the up/down roll arrows to indicate the Valid From and To times. The Temporary Note will only be associated with this record for the duration specified by these date and time parameters.
 5. Type the body of the note into the large text area beneath the date/time fields.
 6. Save the record or make other changes to the notes Tab.

- **Standing** - A Standing note is always true for the Customer record (until edited or deleted).
 1. Click the Add button above the list of Note types.
 2. In the prompt box verify that the correct radio button is selected - Standing
 3. Type a name to identify this Standing Note and click OK to return to the main Notes screen.
 4. Type the body of the note into the large text area beneath the date/time fields. Since this is a more permanent note type, there are no date and time parameters. This note is valid until edited or deleted.
 5. Save the record or make other changes to the notes Tab.


- **Special Instructions** - Special Instructions are selected from a drop-down. The list items are entered on the Notes tab of the Central Station record.
 1. Click the Add button above the list of Note types.
 2. In the prompt box verify that the correct radio button is selected - Special Instructions.
 3. Using the drop-down arrow select one of the Special Instructions Notes from the list.
 4. The associated note appears automatically in the text field. This note is valid until edited or removed.
 5. Save the record or make other changes to the notes Tab.

- **In House** - In House Notes are only visible to the Central Station. They are not available to the Dealer when logged into Manitou remotely.
 1. Click the Add button above the list of Note types.
 2. In the prompt box verify that the correct radio button is selected - Special Instructions.
 3. Using the drop-down arrow select one of the Special Instructions Notes from the list.
 4. The associated note appears automatically in the text field. This note is valid until edited or removed.
 5. Save the record or make other changes to the notes Tab.

Branch General Schedules

Branch General Schedules define the availability of Keyholders, schedules, and hours of executive protection.

General Schedules



Name:

Description:

Type:

General Schedules													
	Week							Time				Date	
	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Start 1	End 1	Start 2	End 2	From	To
▶	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	07:00	08:00				
*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						

1. Click on General Schedules in the Jump To menu.
2. Click on the Add button. An Add Schedule box will appear:

Add Schedule

Code:

Description:

Type:

3. Enter a brief four-letter code into the Code field.
4. Enter a brief description into the Description field.
5. Select a Type from the drop-down menu.
6. Click OK to return to the main General Schedules screen.
7. Select the days of the week to be included in the General Schedule by checking the appropriate checkboxes.
8. In the Start 1 and End 1 cells, enter the first Start and End time. If applicable, enter a second Start and End time. For example, there may be some times when a keyholder is available during regular business hours, however they may be unavailable during a commute home. This is when two start and end times would be utilized.
9. In the From and To date cells, enter the the dates which this schedule is applicable. Enter only numbers, as Manitou will automatically insert the date separators.

10.Repeat as necessary to add any additional schedules.

11.Click Save.

Branch Reports

From the **Branch Reports** screen, Users can add and schedule reports to be periodically generated and sent from Manitou to the Branch.

1. Click on the Add New button. The System Reports screen will appear.
2. Select the desired report from the reports list.
3. Check the Priority level of the report. Manitou will use this number to determine which reports in the report queue to print first - the lower the number, the higher the priority. Unless urgent, this number should be set to 6.
4. Enter any relevant search criteria.
5. Click Next.
6. On the Distribution page, select the distribution method and destination for the report.

A number of options are available. Uses can:

- View it on screen, using the preview facility.
- Print it locally (in the central station), with an option to preview first.
- Send it to a nominated customer or dealer, with an option to review first.
- Send it to any individual (whether on the system database or not) by email or fax, also with an option to preview.

Destination Window

The screenshot displays a software interface for configuring maintenance reports. It is divided into three main sections:

- Override or unlisted destination:** This section includes a printer icon and three input fields: "Override recipient's name:", "Override destination type:", and "Override destination address (Fax/Email):". An "Add to list" button is positioned below these fields.
- Contact list destination:** This section includes a group of three people icon and two dropdown menus: "Default printer:" (set to "Printer") and "Contact list type:" (set to "Company").
- Hold for preview:** A checkbox labeled "Hold for preview" is located below the dropdown menus.
- Contact List:** A tree view on the left shows a folder named "Contacts" containing three items: "Bill Fox", "Central Station", and "Company (printer only)". To the right of this list are four navigation buttons: ">", "<", ">>", and "<<".

For more information on printing, sending and previewing reports, see the Reports: Run a System Report section of this manual.

Branch Statistics

Branch Statistics are a quick and easy to view customer statistics in the Manitou Client or from the Web. The Statistics form is a read-only menu, with the option of drilling down into each statistic for additional information.

Two options control several aspects of the Statistics. The first determines the number of customers for be shown for "Top x" statistics, where x is 1-50. The second controls the number of days of activity to be considered for activity related statistics. Several new statuses are maintained at the customer level. They are "Low Battery", "Late to Test" and "No Event Programming." These can be seen on the Zone Status form of the customer and in the customer status form.

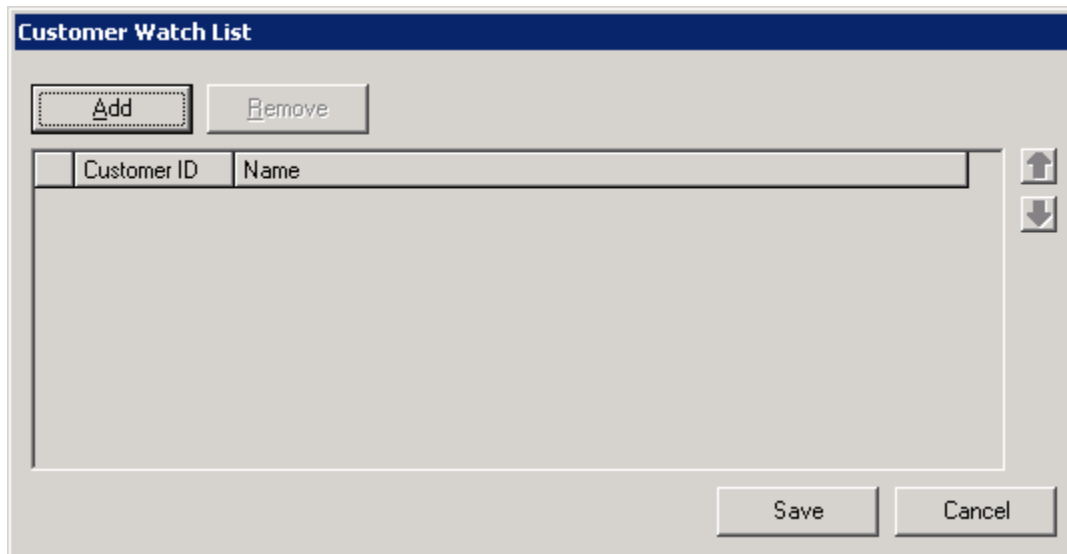
Statistics are provided for the following areas:

Customer Counts

- *Active Customers* - All active customers
- *Inactive Customers* - All inactive customers
- *Pending Customers* - Currently pending customers
- *Deactive Customers* - Deactivated customers

Customer Status Summary

- *Currently In Alarm* - All alarms in the Alarm Queue
- *Currently On Test* - All alarms that are on test
- *Dispatched Alarms in the Last 24 Hours* - Number of alarms in the last 24 hours that authority has been dispatched on
- *New Maintenance Issues* - Number of maintenance issues that have not been modified
- *Unresolved Maintenance Issues* - Number of unresolved maintenance issues
- *With Expired Permits* - Number of customers with expired authority permits
- *Watch List* - Number of customers on a watch list; customers may be added to the watch list by simply double-clicking on the Watch List line in the statistics form to bring up the customer Watch List window:



Click on the Add button and enter the Customer ID to add to the watch list. Once the customer is added, click Save.


- *Top Alarm Activity over 30 Days* - Customer with the most alarm activity over the past 30 days
- *Top False Alarm Activity over 30 Days* - Customer with the most false alarm activity for the past 30 days

Customer Transmitter Summary

- *In Alarm* - Number of current transmitters with an alarm in the Alarm Queue
- *In Fault*

- In Line Fault
- *With Low Battery* - Number of transmitters with a low battery
- *With Late-to-Test* - Number of transmitters showing Late-To-Test signals
- *Missing Event Programming* -Number of transmitters missing event programming
- Transmitters Not on File in the Last 24 Hours - Number of customers with no transmitters associated with the account

Statistics

 24 Hour Inquiry 48 Hour Inquiry 72 Hour Inquiry

Include Sub Dealer Statistics

Customer Counts

Active Customers	0
Inactive Customers	0
Pending Customers	0
Deactive Customers	0

Customer Status Summary

Currently In Alarm	0
Currently On Test	0
Dispatched Alarms In The Last 24 Hours	0
New Maintenance Issues	0
Unresolved Maintenance Issues	0
With Expired Permits	0
Watch List	0
Top Alarm Activity Over 30 Days	10
Top False Alarm Activity Over 30 Days	10

Customer Transmitter Summary

In Alarm	0
In Fault	0
In Line Fault	0
With Low Battery	0
With Late-To-Test	0
Missing Event Programming	0
Transmitters Not On File In The Last 24 Hours	0

Users have the option to select a 24-hour, 48-hour or 72- hour time period to display statistics.

Maintenance Issues

The Maintenance Issues form is similar to the global Maintenance Issues form; however, only maintenance issues for the Branch are displayed on the local Maintenance Issues form. Since only the Branch's issues are displayed, the filtering tab is not needed.

Additionally, all resolved and unresolved issues are displayed. Adding, editing, and clearing of the issues is similar to the global form, but this functionality is locked out when editing the Branch since the maintenance issues do not participate in locking scheme for the Branch.

When editing and saving an entity with outstanding maintenance issues, the Operator is prompted for each issue to determine if it was resolved, and for the operator to resolve, purge or update the issue:

Maintenance Issue

Outstanding Maintenance Issue for Kailey Mohrman. Did you resolve this issue?

Kathy reported an issue with her panel.

Notes:

Problem was reported on 8/8/08.

Resolve Issue Resolve and Purge

Update Notes Take No Action

Note: Maintenance lists may be sorted with the exception of the Description and Notes columns.

Monitoring Company

The **Monitoring Company** screen displays all of the specifics about the Central Station running Manitou. The Central Station record is created upon the initial installation of the system. The record details should be entered as soon after implementation as possible.

Name

Company ID:

Name:

Address

Street 1:

Street 2:

City:

State: Zip Code:

Country:

Language:

Time Zone:

Contact

	Description	Time Zone
Site	Greenwich Mean Time, Dublin, Edinburgh, Lisbon, London	GMT
Home	Eastern Time (US & Canada)	GMT-05:00
Business	Indiana (East)	GMT-05:00 IND
Mobile	Central Time (USA & Canada)	GMT-06:00
	Mountain Time (US & Canada)	GMT-07:00
	Arizona	GMT-07:00 ND
	Pacific Time (US & Canada), Tijuana	GMT-08:00
	Midway Island, Samoa	GMT-11:00

E-mail

E-Mail

Web


Web Address:

The Company tab contains basic contact information including Address, Telephone, Email and Web Address details. Below are instructions for entering this information.

1. With the screen in Edit mode, review the Company name and make any necessary changes.
2. Tab or Click into the Street 1 field and add or update the street address of the Central Station.
3. Tab or Click into the Street 2 field and add or update, if applicable, the additional street address information.
4. Tab or Click into the City field and enter or update the city name.
5. Tab or Click into the State field and enter or update the state name.

Hint: by hitting the first letter of the state name on the keyboard the application automatically looks for the states starting with that name.

6. Tab or Click into the Zip Code field and enter or update the central station's zip code.

7. The Country, Time Zone, and Language fields are set up at system load and are not editable.
8. Use the drop-down arrow to the right of the first telephone number title to select the applicable type of phone number - Site, Home, Mobile, etc.
9. Click the Notepad icon  and select Properties.
10. Enter the area code, phone number and extension (if applicable) into the fields available.
11. If there is a script associated with this phone number (applicable in the case of numeric pager PIN numbers or codes), select that from the drop-down list.
12. Click OK to return to the Name tab, and repeat the above steps for all telephone numbers.
13. Use the drop-down arrow to the right of the word Email to select the Email address to enter (Email, Email 2 or Email 3).
14. Click into the Email address field and type in the entire Email address.
15. If the Email address field will be used to contact a pager, click on the notepad icon to select an applicable Output Device, Service Provider and Script from the drop-down lists available.
16. Repeat the above three steps for up to three Email addresses.
17. Tab or click into the Web Address field. Manitou automatically copies the text after the @ symbol in the Email address and adds 'www' to auto-fill the Web address. If there is no Web address delete that entry. If a different URL is necessary, enter the correct Web address. By default the Web address is highlighted for removal or overwriting.
18. Save the record or click on another tab to enter more Monitoring Company information.

Monitoring Company Contact List

The **Contact List** tab of the Monitoring Company record contains information about relevant Contacts, their schedules, availability, addresses, phone numbers and all essential contact information. All Monitoring Company contacts should be entered on this tab. Some Monitoring Company Contacts may be Global Keyholders and should be already entered under Maintenance>Global Keyholders.

1. With the screen in Edit mode click the Contact List Tab
2. Highlight Contacts in the navigator.
3. Click the Add button above the Navigation area. An Add Keyholder window will appear:

Add Keyholder

Keyholder Global Keyholder


Name:

Country:

Language:

Time Zone:

Contact

 Site

Home

Business


Mobile

OK Cancel

4. Enter the Name of the contact into the Name field.
5. Select the Country, Language and Time Zone for the keyholder.
6. Enter the appropriate contact numbers into the phone number fields.
7. Click OK.

Name

Contact ID:

Name: 

Type:

Title: Suffix:

Job Title:

Birthday:

Access

Can Authorize a Schedule Change

Can Put System Out of Service

Can Put Designated Area Out of Service

On Stop

Can Edit Customer

Passwords

Password:

Web Access ID:

VRT ID:

Availability

Valid From: To:

Inactive From: To:

8. If the Contact is addressed by a Title, use the drop-down arrow to the right of the Title field and select a Title from the list.
9. If the Contact has a Suffix with their name, use the drop-down arrow to the right of the Suffix field to select it from the list.
10. Tab or Click to the Job Title field and type in the Contact's Job Title - Engineer, Supervisor, etc.
11. Use the drop-down arrow to the right of the Birthday field to select the Keyholder's Birthday from the calendar.
12. To associate a photo with this Contact's record, right-click within the gray picture frame to

the right of the name fields and click Find.

13. Browse to the image file (jpeg or gif) on the computer hard drive and select it.
14. In the Access box, use the checkboxes to indicate the Contact's access levels. Note that there are some items that are mutually exclusive of one another, therefore, if both are selected, an error will appear.
15. Tab or click to the Password field and enter this Contact's Password.
16. If this Contact will have Web Access to Manitou, tab or click to the Web Access ID field and type in a unique Login ID.
17. If this Contact will have VRT access (remote phone login capability) to Manitou, tab or click to the VRT ID field and type in a unique, numeric ID with which the contact will log in to Manitou using VRT.
18. Click or tab into the Valid From field and use the drop-down arrow to select a date from the calendar.
19. If applicable, click or tab into the Valid To field and use the drop-down arrow to select a date from the calendar.
20. If the Contact will be inactive for a period of time, indicate that with the Inactive From and Inactive To fields. Use the drop-down arrows to select dates from the calendar for each field.

Contact Information Tab

1. Click the House tab on the right side of the Application view.
2. Use the drop-down arrow located to the left of the top telephone number field to select a telephone number type from the list.
3. Click the notepad icon to the left of the first telephone number field and select Properties.
4. Enter the area code, phone number and extension (if applicable) into the fields available.
5. Use the drop-down arrow to the right of the Email label to select the Email address to enter (Email, Email 2 or Email 3).
6. Click into the Email address field and type in the entire Email address.
7. If the Email address field will be used to contact a pager, click on the notepad icon to select an applicable Output Device, Service Provider and Script from the drop-down lists

available.

8. Repeat the above three steps for up to three Email addresses.
9. Tab or click into the Web Address field. Manitou automatically copies the text after the @ symbol in the Email address and adds 'www' to auto-fill the Web address. By default the Web address is highlighted for removal or overwriting. If there is no Web address delete that entry. If a different URL is necessary, enter the correct Web address.
10. Use the drop-down arrow to the left of the "This is the Mailing Address" title, to select an address type.
11. Click or Tab into the Street 1 field and enter the first line of address information for this Contact
12. Click or Tab into the Street 2 field and enter any additional address or suite information.
13. Click or Tab into the City field and enter the City/County name.
14. Click or Tab into the State field and use the drop-down arrow to the right of the State field to select the applicable state.
15. Click or Tab into the Zip code field and enter the Zip code.
16. Check the checkbox if the address is also the mailing address.
17. Move on to the Notes tab.

Notes Tab

1. Click the Note Pad Tab on the right of the Application View to open the Notes screen.
2. Enter any notes that pertain to the Contact.
3. Save the record or click on another tab to enter more Monitoring Company information.

Monitoring Company Call List

The **Monitoring Company Call List** contains contact information for authorities and contacts alike. Most entries will be made under Contacts.

1. On the Main Contact List screen, put the screen into Edit mode by clicking on the Edit button.
2. Click on the Add button. An Add keyholder window will appear:

Add Keyholder

Keyholder Global Keyholder



Name:


Country:


Language:


Time Zone:

Contact

 Site 

Home 

Business 

Mobile 

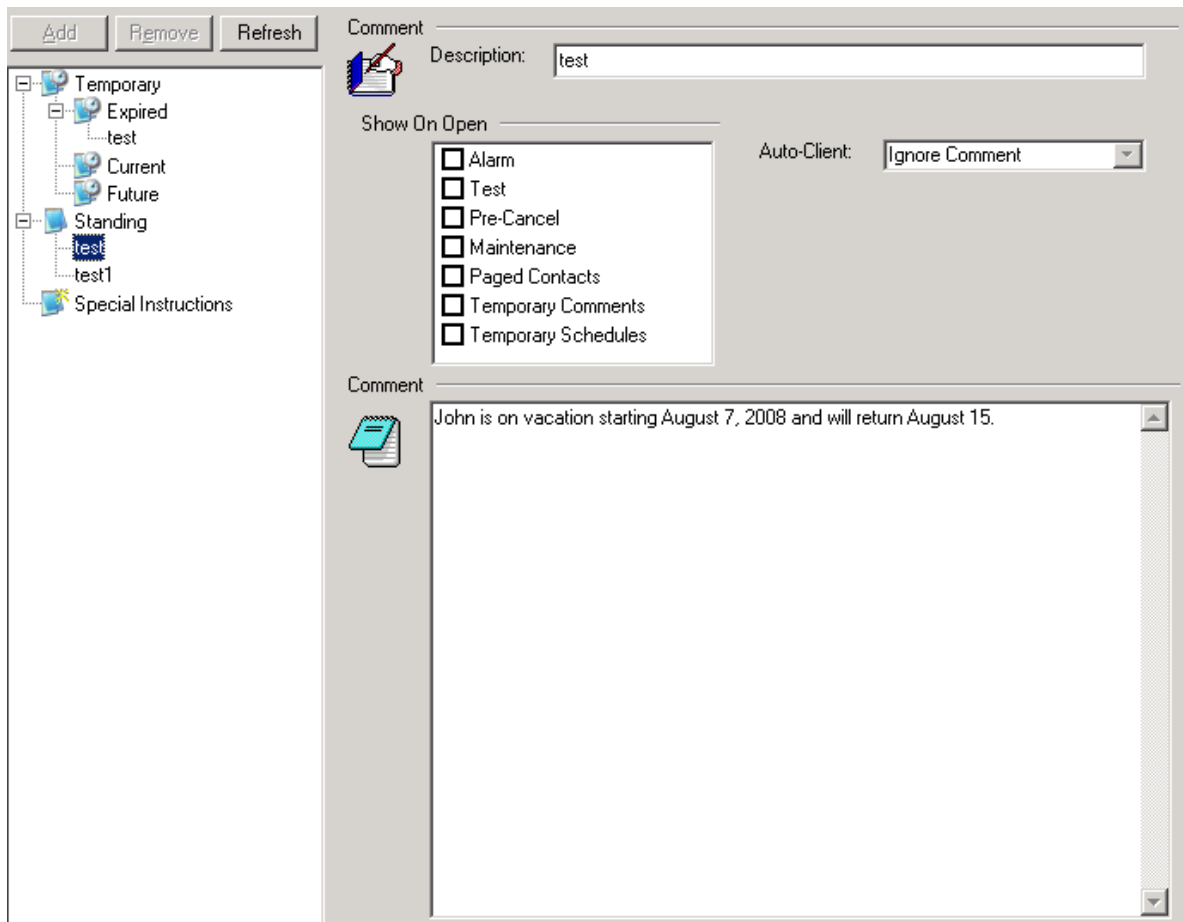
OK Cancel

3. Select whether the contact is a Keyholder or Global Keyholder.
4. Enter the name of the contact into the Name field.
5. Select the Country, Language, and Time Zone of the contact.
6. Enter the Contact's site, home, business and/or mobile phone numbers.
7. Click OK.
8. Back at the main screen, enter a title and/or suffix for the contact.
9. Enter the Job Title of the contact into the Job Title field.
10. Select the birthday of the contact from the calendar.
11. If applicable, click or tab into the Valid To field and use the drop-down arrow to select a date from the calendar.
12. If the Contact will be inactive for a period of time, indicate that with the Inactive From and Inactive To fields. Use the drop-down arrows to select dates from the calendar for each field.
13. Select the Contact Information tab (the house icon).
14. Enter any additional information into the E-mail, Web address and mail address fields.

15. Select the Notes tab (the notepad icon).
16. Enter any notes that pertain to the contact.
17. Click Save.

Monitoring Company Comments

The **Monitoring Company Comments** area allows users to view, enter, or edit temporary, current, future, and special instruction for a customer. The Comment area also offers users access to view expired comments about a customer.



1. Select the Edit tab at the top of the Comment screen.
2. Above the tree menu there are three buttons Add, Remove, and Refresh. Select the Add button to add a comment into the tree menu and onto the customer's account. The Add Comment screen will display.
3. Select the Comment Type by clicking the circle that fits the type of comment that will be added.

- **Temporary** - A Temporary note will only appear within a duration set by the Operator.
 1. Click the Add button above the list of Note types.
 2. In the prompt box verify that the correct radio button is selected - Temporary.
 3. Type a name to identify this Temporary Note and click OK to return to the main Notes screen.
 4. Use the drop-down arrows to select a Valid From and To date from the calendar interface; and use the up/down roll arrows to indicate the Valid From and To times. The Temporary Note will only be associated with this record for the duration specified by these date and time parameters.
 5. Type the body of the note into the large text area beneath the date/time fields.
 6. Save the record or make other changes to the notes Tab.

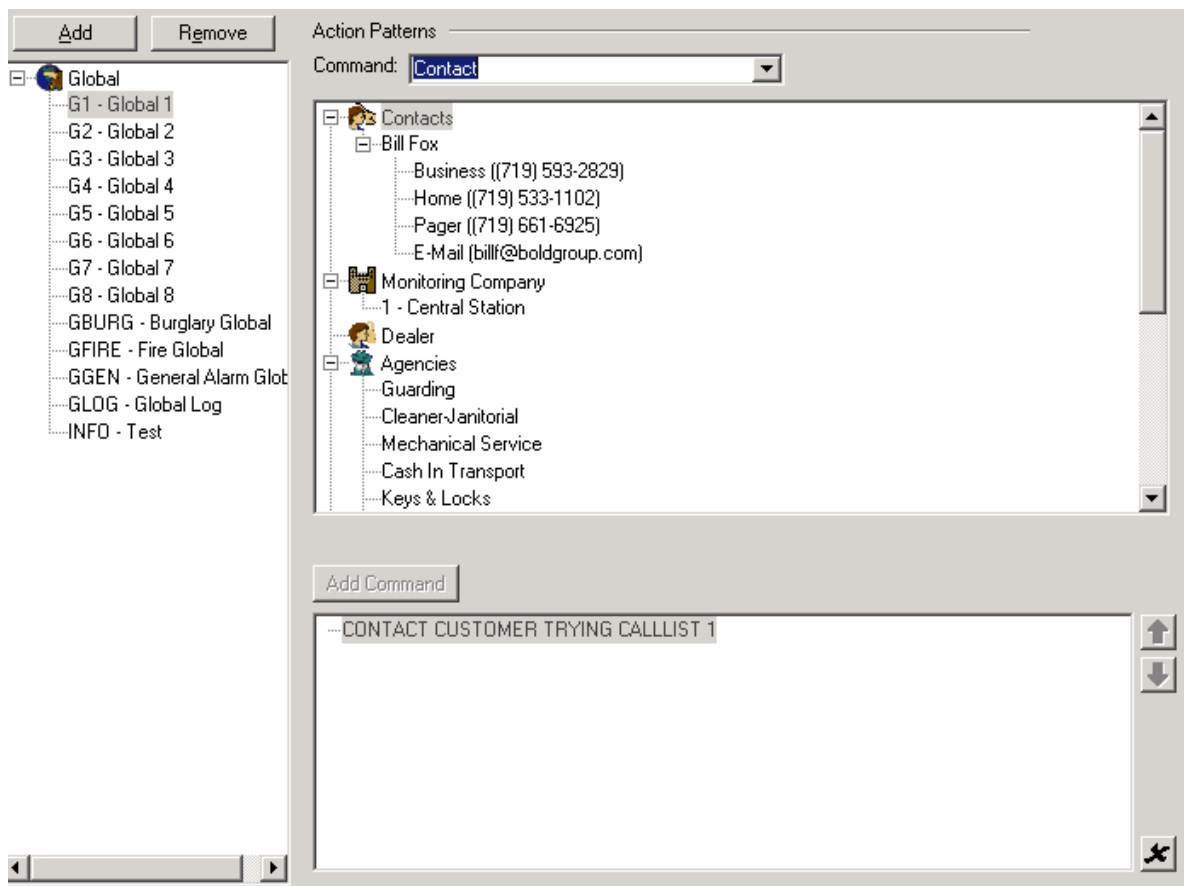
- **Standing** - A Standing note is always true for the Customer record (until edited or deleted).
 1. Click the Add button above the list of Note types.
 2. In the prompt box verify that the correct radio button is selected - Standing
 3. Type a name to identify this Standing Note and click OK to return to the main Notes screen.
 4. Type the body of the note into the large text area beneath the date/time fields. Since this is a more permanent note type, there are no date and time parameters. This note is valid until edited or deleted.
 5. Save the record or make other changes to the notes Tab.

- **Special Instructions** - Special Instructions are selected from a drop-down. The list items are entered on the Notes tab of the Central Station record.
 1. Click the Add button above the list of Note types.
 2. In the prompt box verify that the correct radio button is selected - Special Instructions.
 3. Using the drop-down arrow select one of the Special Instructions Notes from the list.
 4. The associated note appears automatically in the text field. This note is valid until edited or removed.
 5. Save the record or make other changes to the notes Tab.

- **In House** - In House Notes are only visible to the Central Station. They are not available to the Dealer when logged into Manitou remotely.
 1. Click the Add button above the list of Note types.
 2. In the prompt box verify that the correct radio button is selected - Special Instructions.
 3. Using the drop-down arrow select one of the Special Instructions Notes from the list.
 4. The associated note appears automatically in the text field. This note is valid until edited or removed.
 5. Save the record or make other changes to the notes Tab.

Monitoring Company Action Patterns

Monitoring Company Action Patterns speed the processing of specific alarms by telling the Operator who to call and what actions to take on each and every alarm.



Note: Action Patterns added to the Central Station are Global Action Patterns and are therefore available when viewing Customer and Dealer records.

Keep this in mind when configuring Monitoring Company action patterns. These should be applicable to a category of alarms. For example: The action pattern for a Burglary Alarm might be similar for many customers so the sequence of events can be defined by a Global Action Pattern rather than creating separate Action Patterns for each Customer. The following instructions cover how to add Action Patterns to the Central Station record:

1. Scroll down the navigation list, select Customer Action Patterns and Click Add.
2. Click into the Action ID field and Enter a brief code for the Action Pattern.
3. Click into the Description field and enter a short description of the Action Pattern.
4. Click OK to return to the main Action Patterns screen.
5. Select the type of Action to execute in the first pane to the right of the Add and Remove buttons.

- **Contact** - Add contacts to Action Patterns to guide the Operators in calling, paging and/or emailing relevant individuals:
 1. Select the Contact to add to the Action Pattern from the list.
 2. Click the Add button located just above the Action Pattern pane, to add the Contact to the list.
 3. Repeat this process for all persons requiring contact with this Action Pattern.
 4. Use the Up and Down arrows to the left of the pane to adjust whom to contact first, second, etc.
 5. If a contact was added in error, remove by selecting the list item and clicking the "X" button located just outside the lower left corner of the Action Pattern pane.

- **Remark** - Add a remark to the Action Pattern to insert a comment or reminder for the Operator:
 1. Tab or Click into the Remark pane.
 2. Type the Remark to be added to the Action Pattern.
 3. Click the Add button located just above the Action Pattern pane, to add the Remark to the list below.
 4. Repeat this process for all remarks tied to this Action Pattern.
 5. Use the Up and Down arrows to the left of the pane to adjust exactly when in the Action Pattern the remark should be executed.
 6. If a remark was added in error, select it from the list and click the "X" button located just outside the lower left corner of the Action Pattern pane to remove the item.

- **Log Line** - a Log Line action will be added to the Customer Log for each alarm to which it's added:
 1. Tab or Click into the Log Line pane.
 2. Type the information that will appear in the Customer Log.
 3. Click the Add button located just above the Action Pattern pane, to add the Log Line to the list.
 4. Repeat this process for all Log Lines tied to this Action Pattern.

5. Use the Up and Down arrows to the left of the pane to adjust when the Log Line should be executed within the Action Pattern.
 6. If a Log Line was added in error, select it from the list and click the "X" button located just outside the lower left corner of the Action Pattern pane to remove the item.
- **Show** - Add this type of Action to display the help text directly from the Event Category, Event Definition, etc. as part of the Action Pattern:
 1. Select an applicable option to show Help Text about one of the following: Event Category, Event Definition, Event Programming, Transmitter or Script.
 2. If selecting Script, click the drop-down arrow to the right of the field just below the Script radio button and select the script to display.
 3. Click the Add button located just above the Action Pattern pane, to add the Show item to the Action Pattern.
 4. Use the Up and Down arrows to the left of the pane to adjust when the Show item should be executed within the Action Pattern.
 5. If a Show item was added in error, select it from the list and click the "X" button located just outside the lower left corner of the Action Pattern pane to remove the item.
 - **Attention** - Add an Attention line for the purpose of emphasizing information, or to fulfill UL requirements about Alarm ticket information.
 1. Tab or Click into the Attention pane.
 2. Type the text to be added to the Action Pattern.
 3. Click the Add button located just above the Action Pattern pane, to add the Attention line to the list below.
 4. Repeat this process for all Attention actions tied to this Action Pattern.
 5. Use the Up and Down arrows to the left of the pane to adjust exactly when in the Action Pattern the Attention line should be executed.
 6. If an Attention line was added in error, select it from the list and click the "X" button located just outside the lower left corner of the Action Pattern pane to remove the item.
 - **Suspend** - Add this type of action to Suspend the Alarm for an allotted period of time at some point in the Action Pattern:

1. Click the up/down arrows or enter the time to suspend the Alarm.
 2. Select if the time unit is in Seconds, Minutes or Hours by clicking the applicable radio button.
 3. Click the Add button located just above the Action Pattern pane, to add the Suspend command to the list.
 4. Repeat this process again if more than one suspend is necessary for this Action Pattern.
 5. Use the Up and Down arrows to the left of the pane to adjust when the Suspend should be executed within the Action Pattern.
 6. If the Suspend was added in error, select it from the list and click the "X" button located just outside the lower left corner of the Action Pattern pane to remove the item.
- **Close** - Add this type of action to prompt for Closing the Alarm with Resolution Codes automatically entered by the action at the end of the Action Pattern:
 1. Click the drop-down arrow to the right of the Resolution Code field.
 2. Select a Resolution Code from the list.
 3. Click the Add button located just above the Action Pattern pane, to add the Close Resolution Code to the list.
 4. Use the Up and Down arrows to the left of the pane to adjust when the Close Resolution Code should be executed within the Action Pattern.
 5. If a Close Resolution Code was added in error, select it from the list and click the "X" button located just outside the lower left corner of the Action Pattern pane to remove the item.
6. After configuring the Action Pattern, repeat the process for all additional Global Action Patterns required for the Central Station.
 7. Verify all items for accuracy and Save the record or click on another tab to add more Central Station information.

Monitoring Company General Schedules

Monitoring Company General Schedules define the availability of Keyholders, schedules, and hours of executive protection.

General Schedules													
	Week							Time				Date	
	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Start 1	End 1	Start 2	End 2	From	To
▶	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	07:00	08:00				
*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						

1. Click on General Schedules in the Jump To menu.
2. Click on the Add button. An Add Schedule box will appear:

3. Enter a brief four-letter code into the Code field.
4. Enter a brief description into the Description field.
5. Select a Type from the drop-down menu.
6. Click OK to return to the main General Schedules screen.
7. Select the days of the week to be included in the General Schedule by checking the appropriate checkboxes.
8. In the Start 1 and End 1 cells, enter the first Start and End time. If applicable, enter a second Start and End time. For example, there may be some times when a keyholder is available during regular business hours, however they may be unavailable during a

commute home. This is when two start and end times would be utilized.

9. In the From and To date cells, enter the the dates which this schedule is applicable. Enter only numbers, as Manitou will automatically insert the date separators.

10.Repeat as necessary to add any additional schedules.

11.Click Save.

Monitoring Company Reverse Command

This information has not yet been documented.

Monitoring Company TX ID Ranges

Transmitter Ranges determine which transmitter IDs are allocated to a Monitoring Company for use with that Monitoring Company's accounts. When adding new Customer accounts to the system, consider that the Customer's Transmitter ID should be within the Transmitter Range of it's associated Monitoring Company. The purpose of assigning a range of Transmitters to Dealer records is that more information about incoming signals is immediately available. When a signal is received with a TXID (Transmitter ID) within a particular Monitoring Company's range it is clear that the signal is from one of that Monitoring Company's accounts. This gives the Operator more information when handling alarms.

Add Transmitter Ranges

1. Open a Dealer account to add Transmitter Range information.
2. Click the TX Ranges Tab and put the screen into Edit mode.

	Rec. Line Designation	TX ID From	TX ID To	Next TX ID	TX ID Type	Range Full	Restart
▶	RL Prefix 10	0	9999	151	Decimal	<input type="checkbox"/>	<input type="checkbox"/>
	RL 100	10000	11000	10001	Hex (Include A)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	RL 101	11001	11999	11001	Hex (Exclude A)	<input type="checkbox"/>	<input type="checkbox"/>

3. Tab or Click into the Receiver Line Designation cell at the upper left.
4. Use the drop-down arrow at the right of the Receiver Line Designation cell and select the applicable Receiver Line from the listing. This information should be available from the Administrator or Manager of the Central Station. It is important to know which Customers and Dealers are assigned to which Receivers and RLDs.
5. Tab into the TX ID (Transmitter ID) From field and enter the starting number of the TX Range.
6. Tab into the TX ID To field and enter the ending number of the TX Range.

7. Tab into the Next TX ID field and enter the next Transmitter ID to use for this Monitoring Company record.
8. Tab into the TX ID Type field and use the drop-down arrow to indicate the format of the Transmitter ID (Decimal, Hex (Include A), Hex (Exclude A)). This is based on the TX ID format used by your Central Station and/or that Monitoring Company.
9. Tab into the Range Full field and click the checkbox if the Transmitter ID range is full at this time. This is sometimes used to block out a particular number of transmitter ID's to be utilized by a specific account.
10. Tab into the Restart cell and click the checkbox if, once completely through the list of ranges, it is okay to start again looking for empty Transmitter ID numbers.
11. Repeat this process for all Transmitter Ranges allowable for the Monitoring Company.
12. Review all entries to ensure the accuracy of the information and Save the record. Enter any notes if necessary then click OK.
13. Alternately click on another tab to continue editing this Monitoring Company record.

Monitoring Company Reports

From the **Monitoring Company Reports** screen, Users can add and schedule reports to be periodically generated and sent from Manitou to the Branch.

1. Click on the Add New button. The System Reports screen will appear.
2. Select the desired report from the reports list.
3. Check the Priority level of the report. Manitou will use this number to determine which reports in the report queue to print first - the lower the number, the higher the priority. Unless urgent, this number should be set to 6.
4. Enter any relevant search criteria.
5. Click Next.
6. On the Distribution page, select the distribution method and destination for the report.


A number of options are available. Users can:

- View it on screen, using the preview facility.
- Print it locally (in the central station), with an option to preview first.

- Send it to a nominated customer or dealer, with an option to review first.
- Send it to any individual (whether on the system database or not) by email or fax, also with an option to preview.

Destination Window


Override or unlisted destination: _____

 Override recipient's name:

Override destination type:

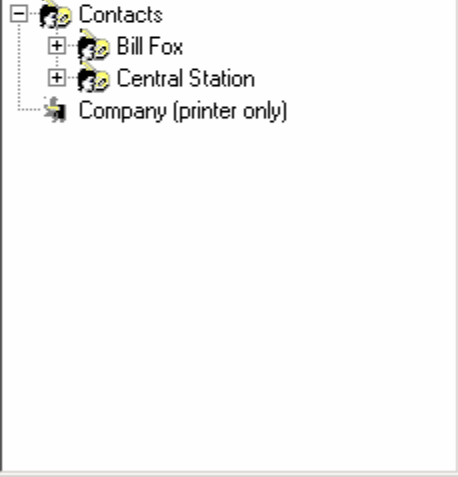
Override destination address (Fax/Email):

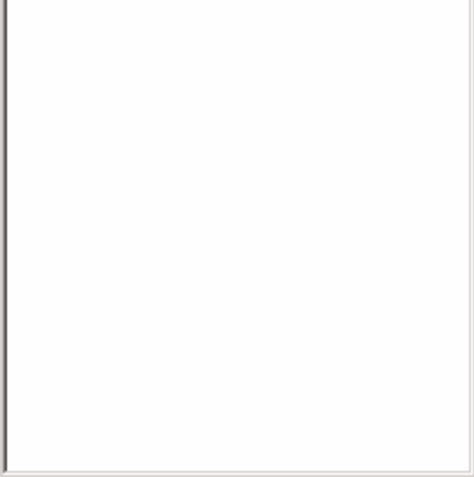
Contact list destination: _____

 Default printer:

Contact list type:

Hold for preview


Contacts
+ Bill Fox
+ Central Station
+ Company (printer only)



For more information on printing, sending and previewing reports, see the Reports: Run a System Report section of this manual.

Monitoring Company Statistics

Monitoring Company Statistics are a quick and easy to view customer statistics in the Manitou Client or from the Web. The Statistics form is a read-only menu, with the option of drilling down into each statistic for additional information. Users may filter the statistics by choosing all customers, customers with no dealer, or customers with no branch from the drop-down menu.

Two options control several aspects of the Statistics. The first determines the number of

customers for be shown for "Top x" statistics, where x is 1-50. The second controls the number of days of activity to be considered for activity related statistics. Several new statuses are maintained at the customer level. They are "Low Battery", "Late to Test" and "No Event Programming." These can be seen on the Zone Status form of the customer and in the customer status form.

Statistics are provided for the following areas:

Customer Counts

- *Active Customers* - All active customers
- *Inactive Customers* - All inactive customers
- *Pending Customers* - Currently pending customers
- *Deactive Customers* - Deactivated customers

Customer Status Summary

- *Currently In Alarm* - All alarms in the Alarm Queue
- *Currently On Test* - All alarms that are on test
- *Dispatched Alarms in the Last 24 Hours* - Number of alarms in the last 24 hours that authority has been dispatched on
- *New Maintenance Issues* - Number of maintenance issues that have not been modified
- *Unresolved Maintenance Issues* - Number of unresolved maintenance issues
- *With Expired Permits* - Number of customers with expired authority permits
- *Watch List* - Number of customers on a watch list; customers may be added to the watch list by simply double-clicking on the Watch List line in the statistics form to bring up the customer Watch List window:


Customer ID	Name
-------------	------

Click on the Add button and enter the Customer ID to add to the watch list. Once the customer is added, click Save.

- *Top Alarm Activity over 30 Days* - Customer with the most alarm activity over the past 30 days
- *Top False Alarm Activity over 30 Days* - Customer with the most false alarm activity for the past 30 days

Customer Transmitter Summary

- *In Alarm* - Number of current transmitters with an alarm in the Alarm Queue
- *In Fault*
- *In Line Fault*
- *With Low Battery* - Number of transmitters with a low battery
- *With Late-to-Test* - Number of transmitters showing Late-To-Test signals
- *Missing Event Programming* - Number of transmitters missing event programming
- *Transmitters Not on File in the Last 24 Hours* - Number of customers with no transmitters associated with the account

Statistics 

24 Hour Inquiry
 48 Hour Inquiry
 72 Hour Inquiry

Include Sub Dealer Statistics

Customer Counts

Active Customers	0
Inactive Customers	0
Pending Customers	0
Deactive Customers	0

Customer Status Summary

Currently In Alarm	0
Currently On Test	0
Dispatched Alarms In The Last 24 Hours	0
New Maintenance Issues	0
Unresolved Maintenance Issues	0
With Expired Permits	0
Watch List	0
Top Alarm Activity Over 30 Days	10
Top False Alarm Activity Over 30 Days	10

Customer Transmitter Summary

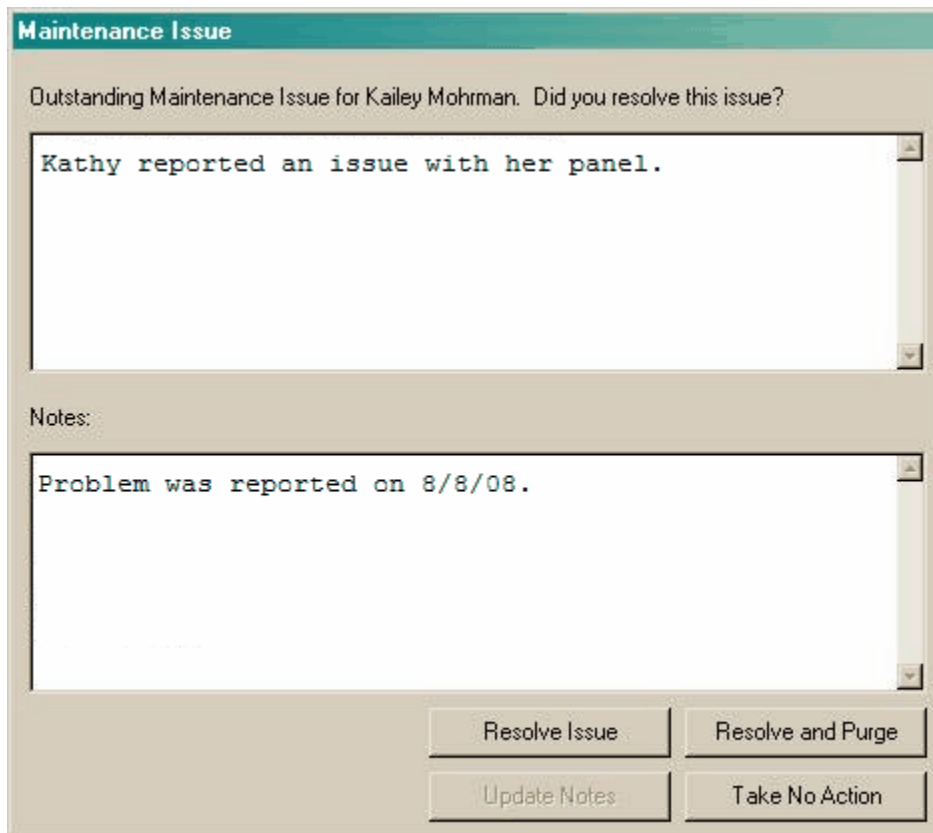
In Alarm	0
In Fault	0
In Line Fault	0
With Low Battery	0
With Late-To-Test	0
Missing Event Programming	0
Transmitters Not On File In The Last 24 Hours	0

Users have the option to select a 24-hour, 48-hour or 72- hour time period to display statistics.

Maintenance Issues

The Maintenance Issues form is similar to the global Maintenance Issues form; however, only maintenance issues for the Monitoring Company are displayed on the local Maintenance Issues form. Since only the Monitoring Company's issues are displayed, the filtering tab is not needed.

Additionally, all resolved and unresolved issues are displayed. Adding, editing, and clearing of the issues is similar to the global form, but this functionality is locked out when editing the Monitoring Company since the maintenance issues do not participate in locking scheme for the Monitoring Company. When editing and saving an entity with outstanding maintenance issues, the Operator is prompted for each issue to determine if it was resolved, and for the operator to resolve, purge or update the issue:



The screenshot shows a dialog box titled "Maintenance Issue". The main text reads: "Outstanding Maintenance Issue for Kailey Mohrman. Did you resolve this issue?". Below this is a text area containing the text: "Kathy reported an issue with her panel." Underneath the text area is a section labeled "Notes:" with another text area containing the text: "Problem was reported on 8/8/08." At the bottom of the dialog box, there are four buttons: "Resolve Issue", "Resolve and Purge", "Update Notes", and "Take No Action".

Note: Maintenance lists may be sorted with the exception of the Description and Notes columns.

Global Keyholder

A **Global Keyholder** is normally a person who is associated with the Central Station, not a specific customer, but is an available resource that can be called to respond to events and alarms associated with any of the monitored customers. Once created, a Global Keyholder may be added-in to the call list of any customer on the system to be used within an action

pattern.

On initial display, a blank Global Keyholder contact record will be displayed in View Mode. The record has a number of pages; these can be accessed using the labeled tabs to the right or base of the Global Keyholder form.

Name

Person ID: 

Name: 

Type:

Title: Suffix:

Job Title:

Birthday:

Passwords

Password:

Web Access ID:

VRT ID:

Availability

Valid From: To:

Inactive From: To:

Find an Existing Global Keyholder Record

1. On the authority form, click the magnifier button to the right of the Global Keyholder ID field. This will bring up the Find window.
2. Type an '*' in the value field adjacent to the Keyholder ID field and then click the Search button.
3. Choose the record that you wish to view and then click Load. The selected record will now be displayed.

Create a new Record

1. Click the New button. This action will bring up the Add Global Keyholder dialogue box.



2. Click into the Contract No field and enter a suitable Keyholder ID number.
3. Click into the Name field and enter the name of the keyholder.
4. Check the entries in the remaining fields of the Add window and then click OK. The new record will now be created and displayed on the screen.
5. If the Contact is addressed by a Title, use the drop-down arrow to the right of the Title field and select a Title from the list.
6. If the Contact has a Suffix with their name, use the drop-down arrow to the right of the Suffix field to select it from the list.
7. Tab or Click to the Job Title field and type in the Contact's Job Title - Engineer, Supervisor, etc.
8. Use the drop-down arrow to the right of the Birthday field to select the Keyholder's Birthday from the calendar.
9. To associate a photo with this Contact's record, right-click within the gray picture frame to the right of the name fields and click Find.
10. Browse to the image file (jpeg or gif) on the computer hard drive and select it.
11. Tab or click to the Password field and enter this Contact's Password.
12. If this Contact will have Web Access to Manitou, tab or click to the Web Access ID field

and type in a unique Login ID.

- 13.If this Contact will have VRT access (remote phone login capability) to Manitou, tab or click to the VRT ID field and type in a unique, numeric ID with which the contact will log in to Manitou using VRT.
- 14.Click or tab into the Valid From field and use the drop-down arrow to select a date from the calendar.
- 15.If applicable, click or tab into the Valid To field and use the drop-down arrow to select a date from the calendar.
- 16.If the Contact will be inactive for a period of time, indicate that with the Inactive From and Inactive To fields. Use the drop-down arrows to select dates from the calendar for each field.

Contact Information Tab

1. Click the House tab on the right side of the Application view.
2. Use the drop-down arrow located to the left of the top telephone number field to select a telephone number type from the list.
3. Click the notepad icon to the left of the first telephone number field and select Properties.
4. Enter the area code, phone number and extension (if applicable) into the fields available.
5. Use the drop-down arrow to the right of the Email label to select the Email address to enter (Email, Email 2 or Email 3).
6. Click into the Email address field and type in the entire Email address.
7. If the Email address field will be used to contact a pager, click on the notepad icon to select an applicable Output Device, Service Provider and Script from the drop-down lists available.
8. Repeat the above three steps for up to three Email addresses.
9. Tab or click into the Web Address field. Manitou automatically copies the text after the @ symbol in the Email address and adds 'www' to auto-fill the Web address. By default the Web address is highlighted for removal or overwriting. If there is no Web address delete that entry. If a different URL is necessary, enter the correct Web address.
- 10.Use the drop-down arrow to the left of the "This is the Mailing Address" title, to select an address type.

11. Click or Tab into the Street 1 field and enter the first line of address information for this Contact
12. Click or Tab into the Street 2 field and enter any additional address or suite information.
13. Click or Tab into the City field and enter the City/County name.
14. Click or Tab into the State field and use the drop-down arrow to the right of the State field to select the applicable state.
15. Click or Tab into the Zip code field and enter the Zip code.
16. Check the checkbox if the address is also the mailing address.
17. Move on to the Notes tab.

Notes Tab

1. Click the Note Pad Tab on the right of the Application View to open the Notes screen.
2. Enter any notes that pertain to the Contact.
3. Save the record or click on another tab to enter more Monitoring Company information.

Edit a Record

1. Find and then display the appropriate record as described above.
2. Click the Edit button.
3. Move the mouse cursor to the field that you wish to modify and click into the field.
4. Modify the contents of the field, as required.
5. Make any necessary changes to all fields that you wish to modify.


Use the tabs at the base and side of the form to move to the various parts of the record.

6. When you have finished editing the Global Keyholder record, click Save to store the changes in the database.

General Schedule

Global Keyholder General Schedules define the availability of Keyholders, schedules, and hours of executive protection.

General Schedules



Name:

Description:

Type:

General Schedules													
	Week							Time				Date	
	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Start 1	End 1	Start 2	End 2	From	To
▶	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	07:00	08:00				
*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						

1. Click on General Schedules in the Jump To menu.
2. Click on the Add button. An Add Schedule box will appear:

Add Schedule

Code:

Description:

Type:

3. Enter a brief four-letter code into the Code field.
4. Enter a brief description into the Description field.
5. Select a Type from the drop-down menu.
6. Click OK to return to the main General Schedules screen.
7. Select the days of the week to be included in the General Schedule by checking the appropriate checkboxes.
8. In the Start 1 and End 1 cells, enter the first Start and End time. If applicable, enter a second Start and End time. For example, there may be some times when a keyholder is available during regular business hours, however they may be unavailable during a commute home. This is when two start and end times would be utilized.
9. In the From and To date cells, enter the the dates which this schedule is applicable. Enter only numbers, as Manitou will automatically insert the date separators.

10.Repeat as necessary to add any additional schedules.

11.Click Save.

Maintenance Issues

The Maintenance Issues form is similar to the global Maintenance Issues form; however, only maintenance issues for the Keyholder are displayed on the local Maintenance Issues form. Since only the Keyholder's issues are displayed, the filtering tab is not needed.

Additionally, all resolved and unresolved issues are displayed. Adding, editing, and clearing of the issues is similar to the global form, but this functionality is locked out when editing the Keyholder since the maintenance issues do not participate in locking scheme for the Keyholder. When editing and saving an entity with outstanding maintenance issues, the Operator is prompted for each issue to determine if it was resolved, and for the operator to resolve, purge or update the issue:

Maintenance Issue

Outstanding Maintenance Issue for Kailey Mohrman. Did you resolve this issue?

Kathy reported an issue with her panel.

Notes:

Problem was reported on 8/8/08.

Resolve Issue Resolve and Purge

Update Notes Take No Action

Note: Maintenance lists may be sorted with the exception of the Description and Notes columns.

Transmitter Types

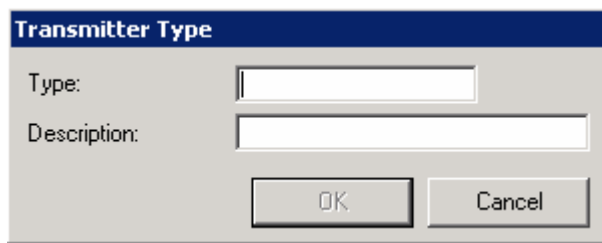
The **Transmitter Types** screen allows Users to create a list of communicator types that are in common use throughout the Central Stations customer base. Creating and maintaining a list greatly simplifies the setting up of new customers and dealers since information contained in this list is made available to the Operator when creating a new customer or dealer record.

A transmitter is a device located at a customer premises that communicates with the alarm communications receivers connected to the system. The specific transmitter is identified within the customer record, along with associated details such as the protocol that it is using.

On the left of the screen is the Transmitter Type tree. It is a list of transmitters currently entered into the system. To select a transmitter, simply click on the transmitter name. The details of the transmitter will then be displayed in the fields to the right of the tree.

Add a Transmitter Type

1. To add a Transmitter Type, first put the screen into edit mode by clicking on the Edit button.
2. Click on the Add button located above the Transmitter Type list. An Add Transmitter Type box will appear:



The image shows a dialog box titled "Transmitter Type". It contains two text input fields: "Type:" and "Description:". Below the fields are two buttons: "OK" and "Cancel".

3. Enter the transmitter ID or reference code for the type of equipment.
4. Enter a brief description into the Description field.
5. Click OK.
6. Back at the Transmitter Type screen, select the Protocol Type if applicable. This is the communications protocol normally used by the transmitter device.
7. In the Reverse Command Protocol drop-down menu, select the protocol that will identify how reverse commands are handled by Manitou for this transmitter.
8. In the Transmitter Input ID section, indicate the Minimum and Maximum values of Group 1, Group 2 and Group 3 (as applicable) using the up/down roll arrows to the right of each field.
9. Tab or Click into the Transmitter Output ID field and enter a Transmitter Output ID.

Attributes

- **Audio Capable** – Check this box if the transmitter is capable of transmitting audio signals for alarm confirmation.
- **Audio Type** – Select the audio technique or technology employed by the device, selected from a list of types.
- **Video Capable** - Check this box if the transmitter is capable of transmitting video signals for alarm confirmation.
- **Video Type** - Select the video technique or technology employed by the device, selected from a list of types.
- **Pin Based Only** - Check this box if the transmitter is only capable of sending data in Pin format.
- **Raw Event Programming** – When checked, indicates that raw event programming is possible for this transmitter type.

- **Monitored TX Path** - Check if the communications path between transmitter and central station is monitored, for example, in the case of BT Red Care.
- **L-T-T Only When Closed** – Check if Manitou will generate a late to test alarm ONLY when the premises are closed.

Transmitter Programming

Programming is required for every system in order to guarantee proper account processing. The Programming items define and decode the information coming in from the transmitters through the receivers. For example, some transmitters send a generic message that an alarm sounded in a specific area or zone. The receiver then passes this message to the application. However, the system doesn't know what that activation on that area or zone means without the programming. The programming is there to translate the activation on that zone to a burglary or fire or other alarm on that zone. Also, programming will allow for the definition of specific actions to complete on the alarm, such as; call the police and then the Keyholder on the account.

Transmitter Programming

	Input			Output					Specific Processing			
	DES	Area	Zone	Sensor	Event	Description	Area	Zone	Sensor	Point ID	Commands	Help
▶	*A	*	1	*	BA	Burglary Alarm	=	=	=			
	*A	*	2	*	BA	Burglary Alarm	=	=	=			
	*A	*	3	*	BA	Burglary Alarm	=	=	=			
	*A	*	4	*	BA	Burglary Alarm	=	=	=			
	*A	*	5	*	BA	Burglary Alarm	=	=	=			
	*A	*	6	*	BA	Burglary Alarm	=	=	=			

Event Actions Programming

Event	Area	Zone	Alarm	Actions	Instructions

1. To enter programming for a particular transmitter, first select the transmitter from the Transmitter Types tree.
2. Select the Event Programming tab at the bottom of the screen.



The Input section tells Manitou which type of signals should be associated with this programming entry. The information here should be entered very carefully and will vary from

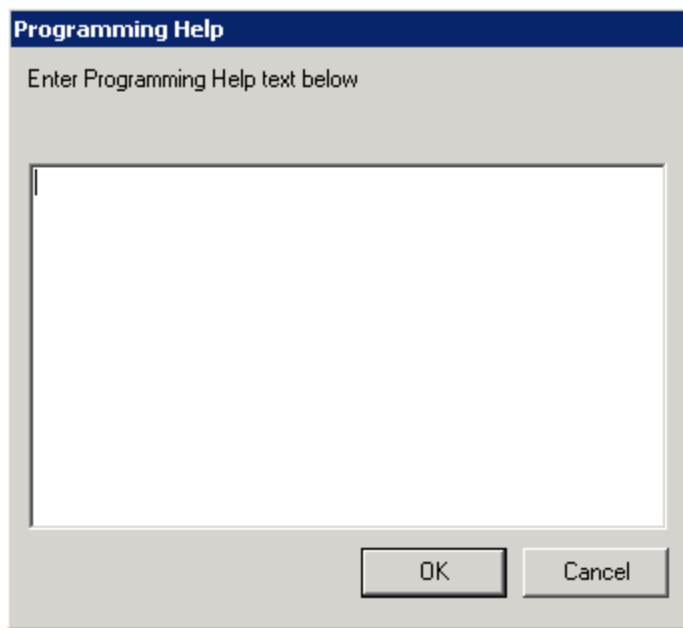
account to account.

1. In the Input section, type or select the Event Code (DES) from the drop-down menu to select a code for the incoming signal.
2. Tab into the Area cell and type in an Area.
3. Tab into the Zone cell and type in a Zone.
4. Tab into the Sensor cell and type in a Sensor.

The Output section tells Manitou what the incoming (Input) signal information means. This is mainly used for non-intelligent signal formats.

1. Tab into the Event cell and type in an Event Code or select one from the drop-down menu.
2. The Description will fill in automatically based on the Event Code selected; however, it may be overwritten
3. Tab into the Area cell and type in an Area.
4. Tab into the Zone cell and enter a Zone.
5. Tab into the Sensor cell and enter a Sensor.
6. Enter a Point ID in the Point ID cell if necessary.


Lastly, the Specific Programming section details are used to enter programming commands. Clicking on the  button will display a list of all transmitter programming commands. Tabbing over to the next field, the  button will display a field to enter programming help text:

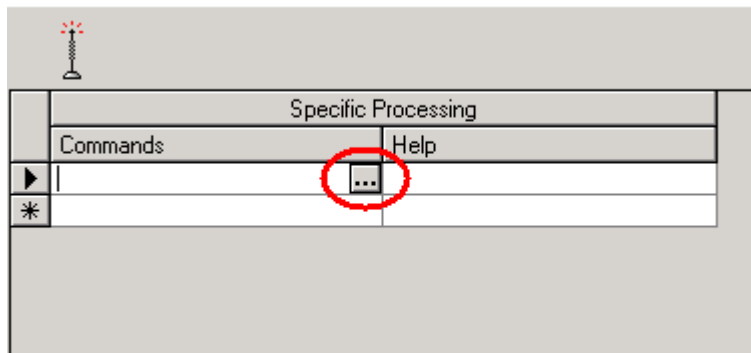


The image shows a dialog box titled "Programming Help". It has a blue header bar with the title. Below the header, the text "Enter Programming Help text below" is displayed. A large, empty white rectangular area occupies the center of the dialog, intended for text input. At the bottom of the dialog, there are two buttons: "OK" on the left and "Cancel" on the right.

Note: The asterisk (*) acts as a wild-card character. Using an asterisk in the Event, Area, Zone or TX cells tells Manitou to consider ALL of that item's values - i.e.: All Transmitters, or All Areas, etc.

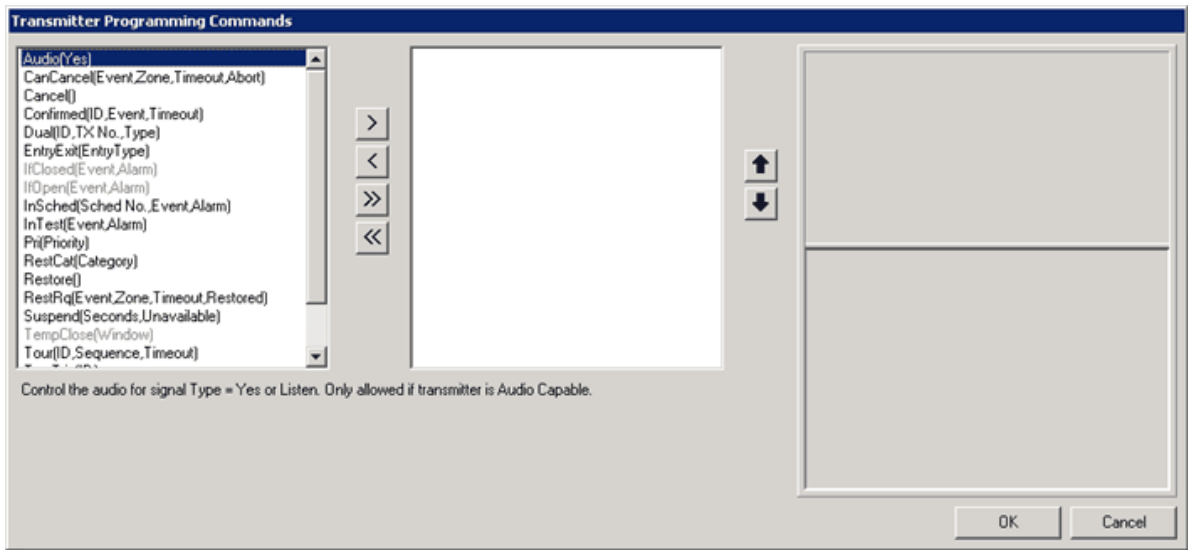
Transmitter Programming Commands

Transmitter programming commands can be located by clicking on the Maintenance menu and selecting "Transmitter Types." Click on the Event Programming tab, and scroll to the right to locate the Specific Processing section of the form. Click in the commands field to bring up the  button:



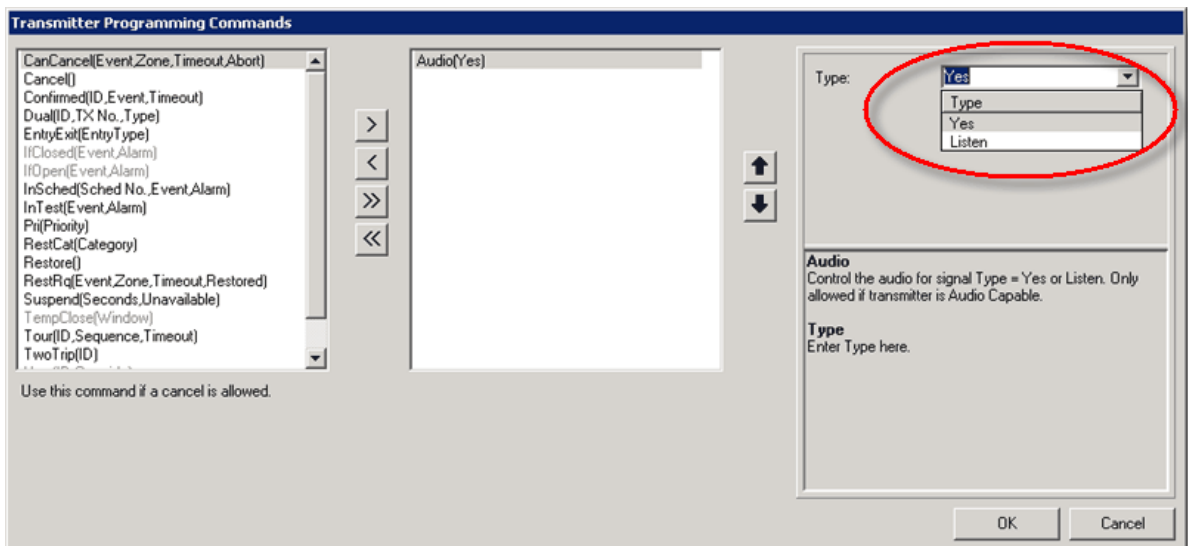
The image shows a section of a software interface titled "Specific Processing". At the top left of this section is a small icon of a transmitter tower. Below the title, there is a table with two columns: "Commands" and "Help". The "Commands" column contains a list of entries. The first entry is highlighted with a red circle around a button containing three dots (...). To the left of the "Commands" column, there is a small triangle icon and an asterisk (*) below it.

Clicking on this button will bring up the Transmitter Programming Commands dialog. Here, users can add programming commands to specific transmitters.



Audio

The Audio command indicates that the signal has audio capabilities as well as defines what audio commands will be made available. When adding a Transmitter to a System, the Audio Capable box must be checked in order to utilize this command. When the Audio command is added to the programming, users may select between "Yes" and "Listen" in the Type drop-down menu:



At times, an active customer may receive an audio signal which is not in test. When this occurs, this programming command will force the signal to become an alarm so that Operators may respond accordingly.

Type:

- *Yes* - Select "Yes" for two-way.

- *Listen* - Select "Listen" if no talk mode is allowed

CanCancel

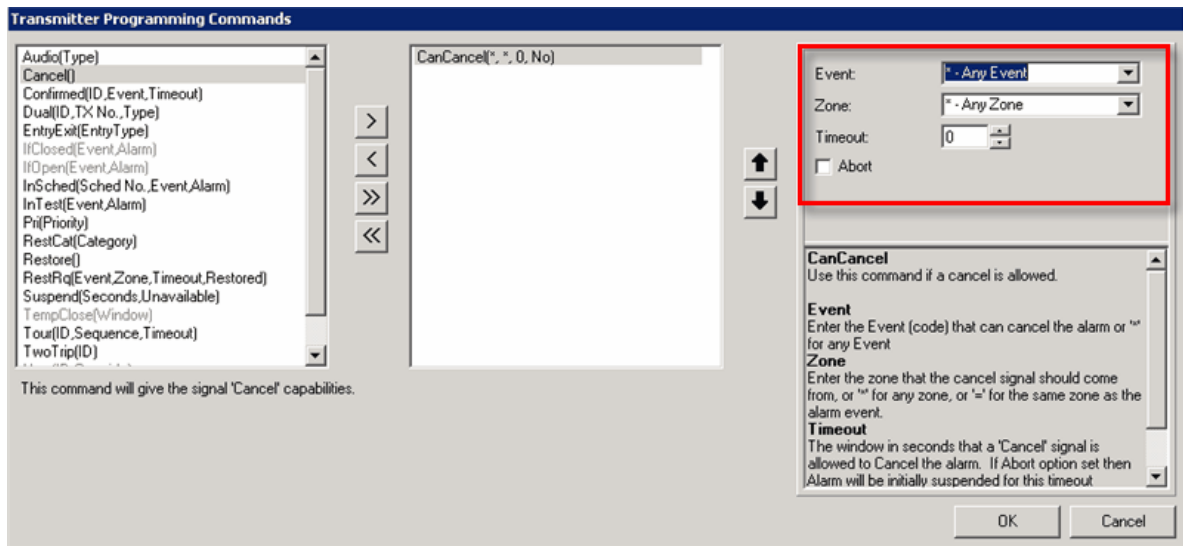
The CanCancel command allows a signal to be canceled (removed from the Alarm Queue and logged) when a second qualifying cancel signal arrives. In order to enable this command, the Auto-Cancel checkbox on the Options form must be checked:

The screenshot displays a configuration window with several sections:

- Passwords:** A table with columns for Password, Description, and Duress. The first row contains 'ALL CLEAR'.
- Codes:** Fields for Group Code, Class Code (set to 'OpenClose'), and Monitoring Group (set to 'Monitoring Group 0').
- Options:** A section containing several checkboxes: 'Ignore Aborts' (unchecked), 'Auto Cancel' (checked and circled in red), 'Generate Unexpected Restores' (checked), and 'Verify Panel User No.' (unchecked). Below these are dropdown menus for 'Area Fill' (set to 'Add/Update Area always'), 'Zone Fill' (set to 'Ignore'), and 'Time Format' (set to 'Default').
- Default Script Message:** A list of variables including {DT}, {TM}, {ET}, {PR}, {DE}, {CA}, and {AD} with their corresponding descriptions.
- Underwriters Laboratories:** Fields for UL Grade and UL Response Time (set to 0 minutes).

Checking the Auto-Cancel box indicates that alarms may be canceled out of the Alarm Queue without Operator interaction if a qualifying signal or alarm arrives within the specified amount of time.

Once the CanCancel programming option has been added, users have several options to choose from in the Type drop-down menu:



Please note that in order for the CanCancel command to work, the expected cancel signal must have "Cancel" capability from the Event Code, or by using the CanCancel command and the signal containing the same transmitter and area.

- **Event** - Select the Event Code that can cancel the alarm or '*' for any Event. The Event system is looking to receive the signal on the output side of the programming. Therefore, if an activation (*A) is translated to a restore (*R), the event will be the restore.
- **Zone** - Select the Zone that the cancel signal should come from, '*' for any zone or '=' for the current signal's zone.
- **Timeout** - The timeout is the window in seconds that a cancel signal is allowed to cancel the alarm. The alarm will be initially hidden for this timeout period.
- **Abort** - Checking the Abort box will force a close of the alarm if the signal arrives within the timeout period.

Please note that CanCancel keeps the event in a pre-alarm state and will not drop to the alarm handling Operator until the time-out is complete. If this is set to the maximum number of seconds (3600 seconds or one hour), the event will be an hour old before an Operator sees it if the cancel event does not arrive to cancel it.

Check to ensure these five parameters are set in order for CanCancel to work as desired:

- The event code that will be canceled;
- The event code that can do the canceling;
- The programming line indicating the event in a certain zone can be canceled by another event;
- The canceling event saying it is the canceling event;

- ❑ Setting permissions to Auto-Cancel at the customer level.

Cancel

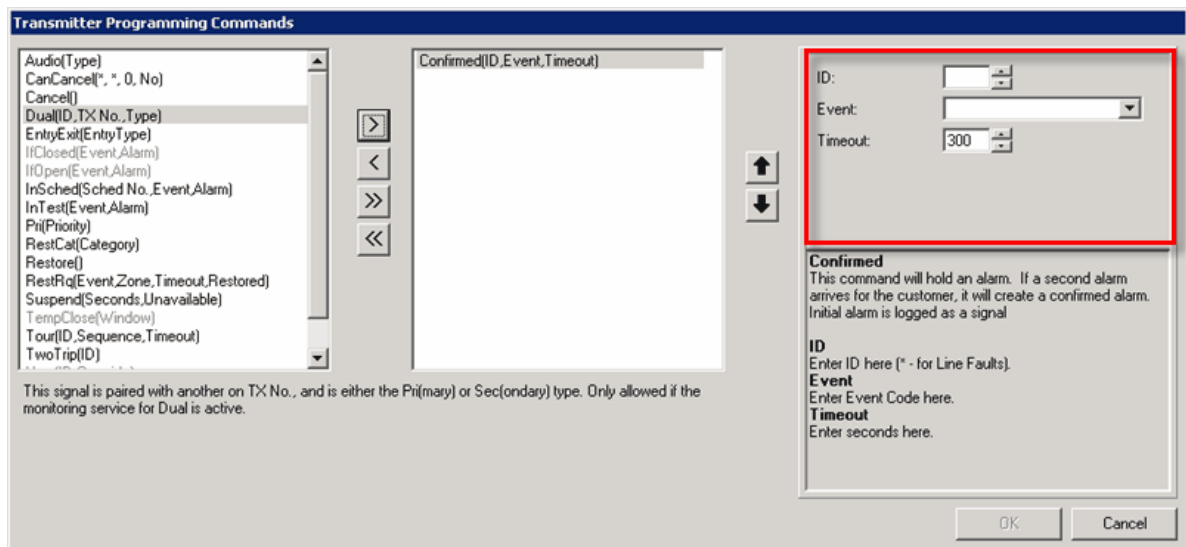
The Cancel command gives the signal Cancel abilities so that it is capable of canceling another signal. The canceling signal must have cancel properties in order for the cancel programming command to work. If the event does not have cancel properties, the soft programming (Signal Processing Commands) will only cancel a "CanCancel" event within 10 minutes of the alarm arrival. If the CanCancel is set for a timeout greater than 10 minutes (600 seconds), the Cancel property must be attached to the canceling event, regardless of whether or not the event has the property by default.

Confirm

The Confirm command will change an event code from a signal to the event code specified in this Confirm programming command. The second signal must be received within the timeout period in order for this to occur.

The first signal will be suspended for timeout seconds, waiting for a possible second signal. If the second signal is received within the timeout period of the first signal, the first signal will be logged and the second signal will become the event code that was specified. If a second signal is not received within the timeout period, the first signal will be presented as a normal Event. A Line Fault signal can be considered to be the first signal for any ID group and is indicated by setting ID to '*'.

Line fault signals may be used as the first confirmation signal, regardless of the confirmation ID. However, this will not be delayed or force logged as with other signals, but it will still hold the alarm. The line fault signal must have this command specified with the confirm ID set to '*'. Using an asterisk indicates that the event code has no meaning for line fault signals.



- **ID** - This is the identifier to link together signals of the same confirm group. Use '*' for Line Fault.

- **Event** - This is the Event (code) that the signal becomes. This only applies if this is the second signal to be received.
- **Timeout** - This is the delay time (in seconds) that the first signal will wait for a second signal in the same group.

Dual

The Dual command is used when there are two signals from two different transmitters expected for the same event, and the signals should be paired together. These two signals must have the same dual signal ID and same event category.

The signals are marked as primary or secondary signals, with the primary signal needing to be received first. A signal should be chosen as Primary if it has the most detail regarding the event. The secondary is the signal with the least amount of detail. If the secondary signal is received first, it will be delayed based on the amount of time set in the Supervisor Workstation options. In the event that this occurs, a Missing Dual alarm is generated.

Note that the Dual Signal monitoring service in the customer record must be checked in order for this command to work properly.

- **ID** – Identifier to link together signals of the same dual group.
- **TX NO.** – Transmitter number that will also send a signal for this same event.
- **Type** – Dual signal type: "Pri" = Primary; "Sec" = Secondary; "Dis" = Dispatchable Secondary.

EntryExit(EntryType)

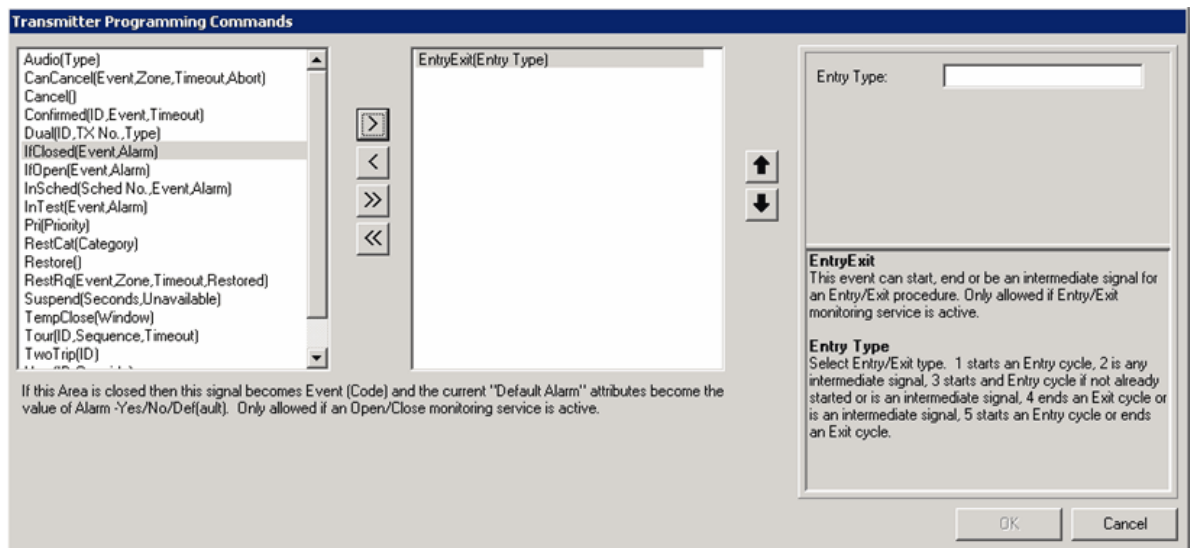
The Entry/Exit command is used when signals are sent prior to an Opening signal, and after a Closing signal. Please note that the panel itself does not handle Entry/Exit delays.

Entry/Exit Delay must be selected in the Transmitter Programming Commands form. In addition, the record must also have Open/Close service and the signals must be for the same area. Entry Type is set to '1' for the signal to be tripped at the start of the entry process. This is also the last one to be tripped on the exit process. Entry Type is set to '2' for all other signals or to '3' if there are multiple entry/exit signals which may be the first/last signal. 4 ends an Exit cycle and can be used as an immediate signal, while 5 starts an Entry cycle or ends an Exit cycle.

The customer monitoring service for Open/Close is required and must be active for this system and area. The monitoring service for Entry/Exit is also required and must be active for this system or the command will be ignored. This monitoring service specifies the timeout

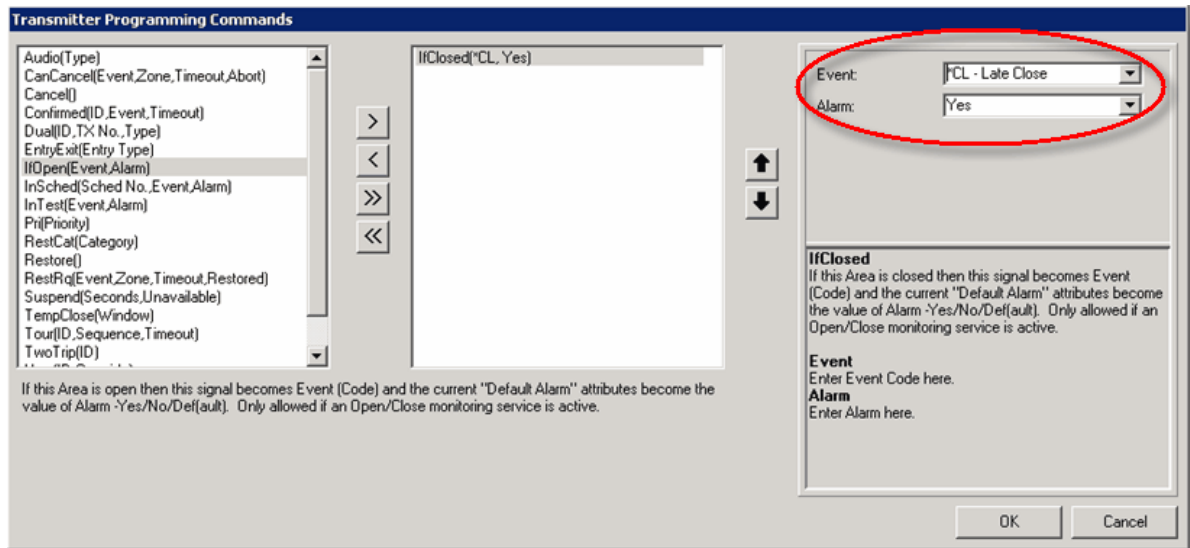
period for the entry or exit cycle.

The signals that will participate in this process to must also contain the Signal Processing attribute of “m” and “n”. The “m” attribute is not set on any events by default to ensure that each company sets this based on their specific company practices and make a reasoned decision before using this feature. The “n” attribute, if ‘c,’ ‘d,’ or ‘e’ is true then this option tells the signal handler to delete the alarm if it has been canceled when the alarm state is new or new/suspended. If the desired outcome is to remove this alarm from the alarm queue if the opening or closing occurs within the prescribed time period then the n command is also required.



IfClosed(Event,Alarm)

The IfClosed command is used to change a signal to a specified event code if the area associated with the signal is closed when it is received. Customers must have an Open/Close monitoring service in order for this command to work properly.



- **Event** – Event (code) that the signal becomes if the area is closed.
- **Alarm** – Alarm indicator: ‘Yes’ = Signal is forced to be an alarm; ‘No’ – Signal is forced to be logged; ‘Default’ = Alarm or Signal depending upon Event Programming or Event default.

IfOpen(Event,Alarm)

The IfOpen command is used to change a signal to an event code if the area associated with this signal is open when it is received. This is only allowed if an Open/Close monitoring service is active.

- **Event** – Event (code) that the signal becomes if the area is open.
- **Alarm** – Alarm indicator: ‘Yes’ = Signal is forced to be an alarm; ‘No’ – Signal is forced to be logged; ‘Default’ = Alarm or Signal depending upon Event Programming or Event default.

InSched(Sched No.,Event,Alarm)

This command is used to change a signal's event code to another specified event code if it is received according to the acceptable times and days of the specified general programming schedule indicated when it is received. Users may set up a programming schedule under General Schedules as well.

- **Sched No.** – General (programming) Schedule to be used.
- **Event** – Event (code) that the signal becomes if the signal is scheduled.
- **Alarm** – Alarm indicator: "Yes" = Signal is forced to be an alarm; "No" – Signal is forced to be logged; "Default" = Alarm or Signal depending upon Event Programming or Event default.

InTest(Event,Alarm)

This command is used to change a signal to an event code if the signal is On Test when it is received. In other words, if a specified signal arrives and the customer's system is currently On Test, the command will convert the original signal to the signal that is specified. This way, the signal can be actioned by an Operator.

- **Event** – Event (code) that the signal becomes if the signal is in test.
- **Alarm** – Alarm indicator: ‘Yes’ = Signal is forced to be an alarm; ‘No’ – Signal is forced to be logged; ‘Default’ = Alarm or Signal depending upon Event Programming or Event default.

Pri(Priority)

The Priority command is used to change a signal's priority by overriding the default even priority. This is only valid if the signal becomes an alarm. Users may override the priority by selecting a priority number.

RestCat(EvCat)

This command gives restore by event category qualities to the signal that may not otherwise be known as a category restore. Users can choose the event category of signals to be restored.

Restore()

The Restore command gives restore by event category qualities to the signal that may not otherwise be known as a restore.

ResRq(Event,Zone,Timeout)

This command is used to indicate that this signal requires a restore, but is not dependent on whether or not the signal becomes an alarm. This may be of help if a Burglary Alarm on a zone is mistakenly set off. The system should be sending a restore signal to restore the zone back to a normal state. This way, the next time the alarm is tripped, it is not a secondary trip of the same zone, but rather a first trip of the same zone.

If Timeout is non-zero and the transmitter has "Generate Restore Overdues" enabled, a Restore Overdue signal will be generated after Timeout minutes if an appropriate restore signal is not received.

Note that the restores signal must have "restore" capability from the event code or by using one of the restore type programming commands. If the programming commands are used, the signal must be from the same transmitter and same area.

- **Event** – Event (code) of the expected restore signal.
- **Zone** – Zone of the expected restore signal or ‘*’ if any zone of type Event is to restore this signal, or ‘=’ for the current signal’s zone.
- **Timeout** – Delay time in minutes that this signal will wait for a restore signal before generating a Restore Overdue event or 0 if no Restore Overdue is to be generated.

Suspend(Timeout,Hidden)

This command will suspend and optionally hide alarms when first received. If the signal is hidden while on suspension, it will not be displayed on the alarm queue. If the signal is not hidden, it will display on the alarm queue with a status of 'Suspended' and will not be auto-dispatched to an operator until suspend time has expired. An operator can select the alarm from the queue which would have the effect of canceling any remaining suspend time.

It is **not** recommend to combine this command with any other command that performs an initial hidden suspend, such as a Confirm command.

- **Timeout** – Delay time in seconds that this signal will be suspended.
- **Hidden** – Hidden indicator: 'Yes' = Signal is hidden while suspended; 'No' – Signal is not hidden.

TempClose(Window)

The TempClose command creates a temporary close window when an Open signal is received. Customers must have an Open/Close service in order for this signal to work properly. The Window field indicates the time of the temporary close window in minutes.

TwoTrip(ID)

This command will require two signals of the same ID to be received before considering the event to be a real signal and generate an alarm. Also, the customer must not have UL service selected and the signal must be allowed through its Signal processing attributes to participate in Two-trip delays. The timeout for expecting the second signal is a system parameter setting in the Supervisor Workstation Options. The first signal is ignored, but logged. If a second or following signal is received within the timeout period of the first signal, then the subsequent signals are handled normally. The transmitter number and event category on the event code **must** be the same in order for two-trip to work. Monitoring service for two-trip must also be active on a customer account, or the command will be ignored.

The two-trip signal processing attributes must be applied to the output event codes, not the input. Therefore, if an activation on zone one translates to a burglary alarm, then the attribute must be on the burglary alarm, not the activation. The signal's event code must have the "two-trip delay" attribute specified.

- **ID** – Identifier to link together signals of the same two-trip group.

User(ID, Override)

This command sets the signal's User ID information (effective panel user ID) if not already supplied in the signal itself. Generally, the ID would be sent in as part of the signal or as the zone number when the signal is an open or a close type of event.

- **ID** – Panel User ID or '*' if the signal's zone is to be used as the User ID

Video()

This command indicates that the signal has video capability. Video Monitoring must be selected on the Services tab of the Customer record and Video Capable check box selected on the Transmitter form in the customer record in order to utilize this command.

This command will force the signal to become an alarm if the customer is active and the signal is not in test. This is so the Operator can respond appropriately.

- 1 - Function ignored if back-dated signal
- 2 - Function ignored if Manual signal

Maintenance Issues

Maintenance Issues allows a Manitou user to record details of any administrative issues with particular system records as they are encountered. Items entered into the list can then be addressed and resolved by a supervisor or system administrator.

The screenshot shows a web application window titled "Maintenance Issues". It features a table with the following columns: Issue No, Logged, Type, Contact ID, Person Name, Description, and Che. To the right of the table is a vertical stack of buttons: Create New, Edit Selected, Resolve Selected, Purge Selected, Purge To Date, and Go to Record. The table area is currently empty.

Create a Maintenance Issue

1. Click on the Maintenance menu.
2. Select Maintenance Issues.

3. On the Maintenance Issues screen, click Create New. The New Maintenance Issue dialogue box will be displayed:

The screenshot shows a dialog box titled "New Maintenance Issue...". Inside the dialog, there is a sub-header "New Maintenance Issue". Below this, there is a "Contact type:" label followed by a dropdown menu and a "Name:" label followed by a text input field. To the left of the "Contact type:" label is a small icon of a computer. Below these fields, there are several rows of text: "Issue: 5", "User: BT", "Logged: 03/13/2007 10:14", "Last Action: 03/13/2007 10:14", and "Resolved:". Below the "Description:" label is a large, empty text area with a vertical scrollbar on the right side. At the bottom right of the dialog, there are two buttons: "Save Changes" and "Cancel".

4. Select the type of contact that the issue refers to using the Contact Type pick list. This list includes all organization record types plus contacts (person).
5. If a contact is chosen, enter the contact's number into the Contact ID field or use the Find facility to choose the appropriate record.
6. Enter a brief description of the problem in the Description area.
7. When the form is complete, click Save Changes. Manitou will allocate an issue number to the entry and details of the entry will appear in the Maintenance Issues list.

Edit a Maintenance Issue

1. Open the Maintenance Issue window by clicking on the Maintenance menu, then selecting "Maintenance Issues."
2. Select the desired entry to edit by clicking on the entry.
3. Click on the Edit Selected button. The Edit Maintenance Issue box will appear:

Edit Maintenance Issue...

Edit Maintenance Issue

Contact type: Customer Name: Anna Haiar

Contact ID: 120906 Person:

Issue: 8 User: BT

Logged: 03/14/2007 10:01 Last Action: 03/14/2007 10:01

Description: Resolved:

Customer reported error

Change Description:

Customer reported alarm malfunction

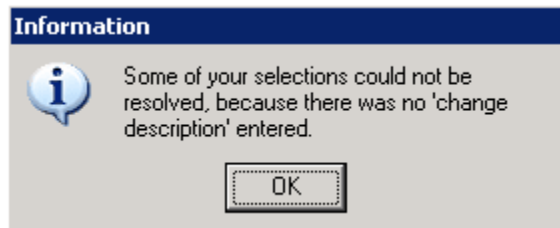
Resolve Save Changes Cancel

4. Enter any changed details into the Change Description box.
5. Click "Save Changes" to save the changes, or "Cancel" to cancel the changes.

Resolve a Maintenance Issue Item

If an issue has been resolved, the user may enter details as well as clear the item from the Issues list.

1. Open the Maintenance Issue window by first clicking on the Maintenance menu, then selecting "Maintenance Issues."
2. Select the desired entry to resolve by clicking on the entry.
3. If no changes have been made to the entry, the user must first click on "Edit Selected" to amend the description to include the resolution, and then click on the "Resolve" button. Otherwise, an error will occur:



4. If changes have already been made to the issue, the user can highlight the entry to be resolved, and click on the "Resolve Selected" button.

Delete/Purge Resolved Issues List

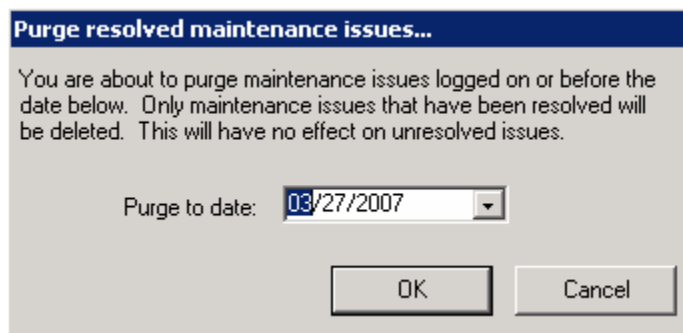
Periodically, it is a good idea to purge the Maintenance Issues list of resolved items. **Purge Selected** will purge the currently selected record. **Purge to Date** will purge all resolved issues up to the creation date that is specified.

Purge Resolved Issues List

1. Bring up the Resolved Issues list by first clicking on the Filter tab at the bottom of the Maintenance Issues screen.
2. Under the Resolution section, select Resolved.
3. Click Search. Back at the Maintenance Issues screen, a list of all resolved issues will appear.
4. Select the issues to be resolved by clicking in the column to the left of the Issue Number.
5. Click on Purge Selected.
6. A Yes/No prompt will appear, asking the user to confirm the delete. Click Yes. The issues have now been purged.

Purge to Date

1. Bring up the Resolved Issues list by first clicking on the Filter tab at the bottom of the Maintenance Issues screen.
2. Under the Resolution section, select Resolved.
3. Click Search. Back at the Maintenance Issues screen, a list of all resolved issues will appear.
4. Click on the Purge to Date button. A Purge Resolved Maintenance Issues window will appear:



5. Select the date from the drop-down menu. The date selected will purge all issues up to the creation date that is specified.

Click OK. The issues have now been purged.

Maintenance Issue Filter Facility

The Maintenance Issues Filter Function allows users to display issues that meet a certain search criteria. Users may search by Date/Time, Resolutions, Contact Types, Contact ID or User.

Maintenance Issues Filter Tab

Users may also reverse the order of display by checking the Reverse Order box. Once the search parameters have been set, click Search to bring up Maintenance Issues.

Reports Menu

Reports can play a vital role at a Central Station. There are many customers that receive reports on a weekly, monthly or periodic basis. Additionally, for management purposes, each company often runs reports on a daily, weekly and monthly basis as well. Report Functions also include enabling one or more reports to be selected, queued, previewed on screen, printed or sent to a nominated recipient by e-mail or fax.

The Reports function enables users to create reports on an as-needed basis, such as a request from a customer or Dealer. The Reports function operates along the Report Scheduler and Publisher applications in Manitou, which generates and distributes reports on an automatic basis according to pre-determined criteria.

The following options are accessible from the Reports Menu:

- System Reports
- Report Queue

Report Options

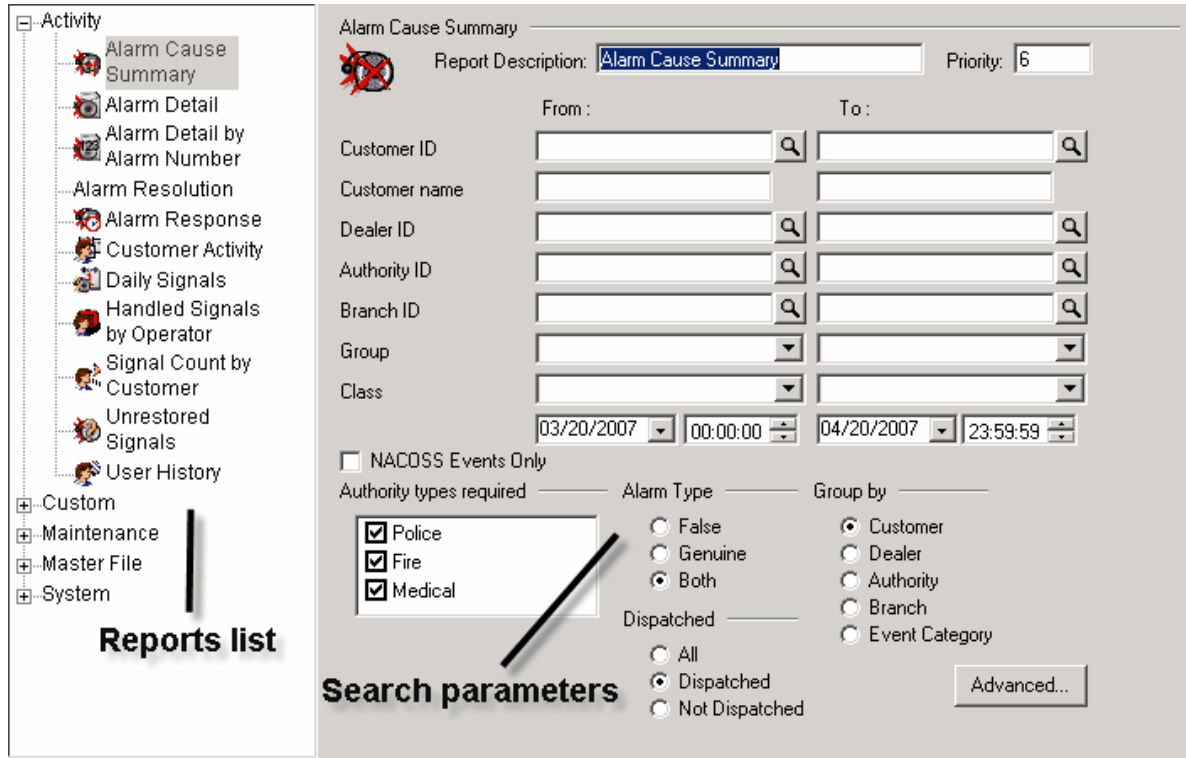
At times, users may wish to select Advanced Options for Reports. Please note that checking all categories is the same as unchecking all categories. In order to keep the parameter list as short as possible, when all items of a particular category are selected, the parameter sent to the report server is empty (meaning "all" is requested).

System Reports

The **System Reports** function is a tool used for running reports on various Manitou system aspects, such as the number of customers added or deleted during a specific date range, or customer activity. These reports can be scheduled to run a certain time intervals and have the

option to be e-mailed, faxed or printed.

Initially, when displaying the System Reports, the default page shows the first step in the reports process. On the left hand side of the screen is a list of the available reports. After selecting a report from the reports list, the search criteria and parameters available to each report are shown on the right.




Activity Reports

Alarm Cause Summary

The **Alarm Cause Summary report** provides details regarding a summary of what caused alarms - i.e. burglary or false alarm during a set time period. The report ultimately provides a listing of the event category, alarm causes (resolution codes) and the number of genuine and false alarms.

Users can enter various search criteria into the fields provided in the Alarm Cause Summary window:

Alarm Cause Summary

 Report Description: Priority:

From : To :

Customer ID

Customer name

Dealer ID

Authority ID

Branch ID

Group

Class

NACOSS Events Only

Authority types required Alarm Type Group by

Police False Customer

Fire Genuine Dealer

Medical Both Authority

All Branch

Dispatched Event Category

Not Dispatched

The report may be run by Customer, Dealer, Authority, Branch, Group code, or Class code. It may then require all or only one or two authority types. Subsequently, the report may be selected by alarm resolution type of false or genuine and dispatched, not dispatched or both. The report may also be grouped any of five ways: Customer, Dealer, Authority, Branch and Event Category.

Advanced Search Options

Clicking on the Advanced button at the bottom right corner of the screen will bring up additional search options:

Alarm Cause Summary Advanced Settings

Alarm Cause Summary

Event Codes: _____ Event Categories: _____

** Unknown Event
 *1 GSM Link Fail
 *2 GSM No Response
 *3 Land Line Link Fail
 *4 Land Line No Respons
 *5 GSM Resp OK
 *6 Land Line Resp OK
 *7 GSM Remote Link Fail

Access Alarms
 Burglary
 Emergency
 Environmental Alarms
 Fire Alarm
 General Alarms
 Holdup / Personal Attack
 Medical Alarms

Resolution Codes: _____ Customer types: _____

Group 1
 AC Actual Alarm
 AN Animal Caused
 AU Closed by Auto Client
 CM Company Caused
 CU Customer Caused
 EM Email Notification
 EQ Equipment Caused

Residential
 Commercial
 ULCB
 ULC Fire

OK Cancel


The advanced search options are divided into four categories: Event Codes, Event Categories, Resolution Codes and Customer Types. All options are checked by default and it is recommended to leave all options as such.

- **Event Codes** – use this to select only the events required.
- **Event Categories** – use this to narrow the scope of the events to the category of alarm/signal events.
- **Resolution Codes** – will select the alarms with the specified resolution codes.
- **Customer Types** – will select only the customers of the selected type(s).











Once the search parameters are set, click Next to continue running the report.

Alarm Detail

The **Alarm Detail** report contains the alarm activity details for a single or several customer records. When this report is run with the defaults, the report groups by Customer and lists each alarm in sequential order.

Alarm Detail 

Report Description: Priority:

	From :	To :		
Customer ID	<input type="text"/> 	<input type="text"/> 		
Customer name	<input type="text"/>	<input type="text"/>		
Dealer ID	<input type="text"/> 	<input type="text"/> 		
Branch ID	<input type="text"/> 	<input type="text"/> 		
Alarm No	<input type="text"/>	<input type="text"/>		
Group	<input type="text"/>	<input type="text"/>		
Class	<input type="text"/>	<input type="text"/>		
Zip/Post	<input type="text"/>	<input type="text"/>		
	<input type="text" value="03/15/2007"/> 	<input type="text" value="00:00:00"/> 	<input type="text" value="03/15/2007"/> 	<input type="text" value="23:59:59"/> 

Page break between customers

Dispatched	Output format	Group by
<input checked="" type="radio"/> All	<input type="radio"/> Long	<input checked="" type="radio"/> Customer
<input type="radio"/> Dispatched	<input checked="" type="radio"/> Normal	<input type="radio"/> Dealer
<input type="radio"/> Not dispatched	<input type="radio"/> Extended	<input type="radio"/> Branch

Advanced Search Options

Clicking on the Advanced button at the bottom right corner of the screen will bring up additional search options:

Alarm Detail Advanced Settings

Alarm Detail

Event Codes: ** Unknown Event
 *1 GSM Link Fail
 *2 GSM No Response
 *3 Land Line Link Fail
 *4 Land Line No Respons
 *5 GSM Resp OK
 *6 Land Line Resp OK
 *7 GSM Remote Link Fail

Event Categories: Access Alarms
 Burglary
 Emergency
 Environmental Alarms
 Fire Alarm
 General Alarms
 Holdup / Personal Attack
 Medical Alarms

UL Grades: Unassigned
 CSBG
 CSF
 PRPF
 PRPB

Resolution Codes: Group 1
 AC Actual Alarm
 AN Animal Caused
 AU Closed by Auto Client
 CM Company Caused
 CU Customer Caused
 EM Email Notification
 EQ Equipment Caused

Customer types: Residential
 Commercial
 ULCB
 ULC Fire

The advanced search options are divided into five categories: Event Codes, Event Categories, UL Grades, Resolution Codes and Customer Types. All options are checked by default and it is recommended to leave all options as such.

- **Event Codes** – use this to select only the events required.
- **Event Categories** – use this to narrow the scope of the events to the category of alarm/signal events.
- **UL Grades** - use this to select narrow down the results by UL Grade.
- **Resolution Codes** – will select the alarms with the specified resolution codes.
- **Customer Types** – will select only the customers of the selected type(s).

Once the search parameters are set, click Next to continue running the report.

Report Results

- Customer information, including Contract number and Address.
- Alarm Number, this is a combination of the database serial number assigned to this record and the sequence number of the alarm assigned to it when the alarm arrived.
- User ID information of the person that handled the alarm.
- Alarm date and time plus the reset date and time.

- UL information when applicable.
- Activity from the alarm handling process.
- If persons or authorities were contacted during the alarm handling process the contact details will list after the activity. This will detail the initial contact, the date and time when the authority or person arrived on site and if/when the alarm was cleared.

Alarm Detail by Alarm Number

The **Alarm Detail by Alarm Number** report is a more specific version of the Alarm Detail report. In order to correctly run this report, the Operator must know the alarm number. The alarm number is a unique number assigned by Manitou which is a combination of the serial number of the customer record from the database and the sequence number assigned to the alarm by the database when the alarm arrived.



When running this report, the first digits before the hyphen in the alarm report number are actually the contract's serial number and should not be used in the report number field since it is already reference by entering the Contract number in the Contract Number field. Therefore, use only the digits after the hyphen when entering in the alarm report number or numbers. Once the search parameters are set, click Next to continue running the report.

Alarm Resolution

The **Alarm Resolution** report produces the details and summary information about the alarms that arrived and how they were resolved, including if the alarm was dispatched or not. The report results also total the number of genuine and false alarms and the percentages of each including the numbers and percentages of dispatched false alarms.

Users can enter various search criteria into the fields provided in the Alarm Resolution window:

Alarm Resolution

Report Description: Priority:

From: To:

Customer ID

Customer name

Dealer ID

Branch ID

Group

Class

Authority ID

Group by: None Dealer Branch

Order by: Customer ID Resolution Code Authority ID

Resolution Codes:

- Group 1
 - AC Actual Alarm
 - AN Animal Caused
 - AU Closed by Auto Client
 - CM Company Caused
 - CU Customer Caused
 - EM Email Notification
 - EQ Equipment Caused

Advanced Search Options

Clicking on the Advanced button at the bottom right corner of the screen will bring up additional search options:

Alarm Resolution Advanced Settings

Alarm Resolution

Customer types to include: Event Codes: Event Categories:

<input checked="" type="checkbox"/> Residential	<input checked="" type="checkbox"/> ** Unknown Event	<input checked="" type="checkbox"/> Access Alarms
<input checked="" type="checkbox"/> Commercial	<input checked="" type="checkbox"/> *1 GSM Link Fail	<input checked="" type="checkbox"/> Burglary
<input checked="" type="checkbox"/> ULCB	<input checked="" type="checkbox"/> *2 GSM No Response	<input checked="" type="checkbox"/> Emergency
<input checked="" type="checkbox"/> ULC Fire	<input checked="" type="checkbox"/> *3 Land Line Link Fail	<input checked="" type="checkbox"/> Environmental Alarms
	<input checked="" type="checkbox"/> *4 Land Line No Respons	<input checked="" type="checkbox"/> Fire Alarm
	<input checked="" type="checkbox"/> *5 GSM Resp OK	<input checked="" type="checkbox"/> General Alarms
	<input checked="" type="checkbox"/> *6 Land Line Resp OK	<input checked="" type="checkbox"/> Holdup / Personal Attack
	<input checked="" type="checkbox"/> *7 GSM Remote Link Fail	<input checked="" type="checkbox"/> Medical Alarms
	<input checked="" type="checkbox"/> *8 GSM Remote Resp OK	<input checked="" type="checkbox"/> Network Alarm
	<input checked="" type="checkbox"/> *A Activation	<input checked="" type="checkbox"/> Open / Close
	<input checked="" type="checkbox"/> *A1 Unknown Card	<input checked="" type="checkbox"/> Service Signals
	<input checked="" type="checkbox"/> *A2 Unassigned Card	<input checked="" type="checkbox"/> System Alarms
	<input checked="" type="checkbox"/> *A3 Unauthorized Access	
	<input checked="" type="checkbox"/> *AX Unexpected Area	
	<input checked="" type="checkbox"/> *B Bypass	

OK Cancel

The advanced search options are divided into three categories: Customer Type to Include, Event Codes and Event Categories. All options are checked by default and it is recommended to leave all options as such.

- **Customer Types** – will select only the customers of the selected type(s).
- **Event Codes** – use this to select only the events required.
- **Event Categories** – use this to narrow the scope of the events to the category of alarm/signal events.

Advanced Resolution Option Settings

Clicking on the Options button will allow users to include additional resolution options as well as report options. Users may choose to include genuine alarms, false alarms, or both types of alarms, as well as including or excluding specific type of authority (police, fire or medical). Last, Users may choose report summary options: details only, details with summary totals, or summary totals only:

Alarm Resolution Option Settings

Alarm Resolution

Include: _____

Genuine alarms
 False Alarms
 Both

Require police
 Require fire
 Require medical
 Exclude police
 Exclude fire
 Exclude medical

Summary: _____

Detail only
 Detail with summary totals
 Summary totals only

OK Cancel

Once the search parameters are set, click Next to continue running the report.

Alarm Response

The **Alarm Response** report produces activity and shows how long it took for the alarm to receive its first contact action.

Alarm Response

Report Description: Priority:

From: _____ To: _____

Customer ID

Dealer ID

Branch ID

User ID

Minimum Response (seconds)

Include details

Group by _____ Response type _____

Date
 Operator
 View to Action
 Rcvd to Action

Advanced...

The Response Type selection indicates what type of contact action was performed. A contact action is an action that requires the Operator to pick up the telephone and contact a responsible party, customer, dealer or authority. By default, the report includes details as well

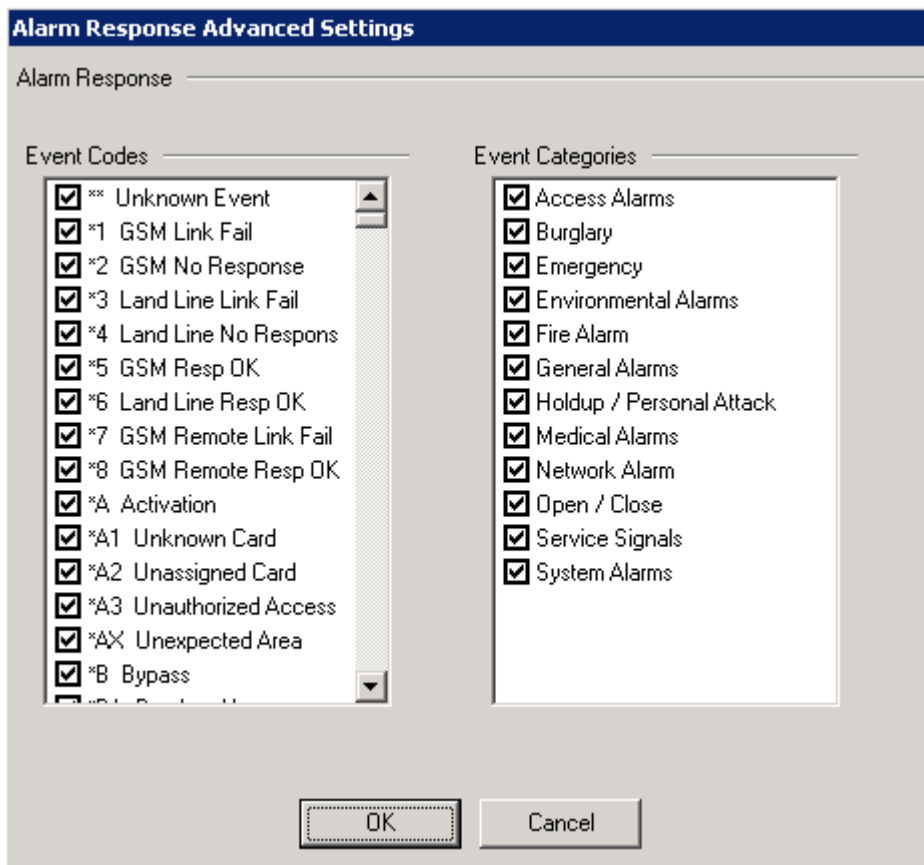
as the alarms, Operator, the view time, first action time, and resolution time. Often, the first action column may be empty. This is because there was no contact action on the action pattern. Remember, the contact action requires an Operator to pick up the telephone and dial another person. If a pager, fax, or email is used to contact a responsible party that is not considered a true contact action.

Response Type

View to Action and Rcvd to Action are more or less the same function. The difference in the two will be how long the alarm sat in the queue. If an alarm is generated and left in the queue for 60 seconds, open it and perform a contact action, the View to Action will be 60 seconds less than the Rcvd to Action. Users may choose whether to view the Response Type by either the View to Action or Rcvd to Action.

Advanced Search Options

Clicking on the Advanced button at the bottom right corner of the screen will bring up additional search options:



The advanced search options are divided into two categories: Event Codes and Event Categories. All options are checked by default and it is recommended to leave all options as such.

- **Event Codes** – use this to select only the events required.

- **Event Categories** – use this to narrow the scope of the events to the category of alarm/signal events.

Once the search parameters are set, click Next to continue running the report.

Customer Activity

The **Customer Activity** report is the most used and most detailed report for obtaining customer account activity information. This report contains all alarms and signals for customer records, including the details of actions taken and comments added to the account. The report's results are divided by the Customer Contract Number and then by the Alarm Report Number. The Operator can select the Mailable option in order to get a report that will fit neatly into a standard business-sized window envelope.

This report differs from the Alarm Detail report, which concentrates only on the alarm activity. The Customer Activity report collects and returns information on the entire activity, open, close, on test, comments, etc. The standard Activity report run with no changes, excepting perhaps narrowing the criteria by Customer or Dealer, produces a report showing the alarms and signals and related details from the Customer log. The report excludes the entries when someone opened the customer record for viewing or editing.

The screenshot shows a dialog box titled "Customer Activity". At the top, there is a "Report Description" field containing "Customer Activity" and a "Priority" field set to "6". Below this, there are two columns of search criteria labeled "From:" and "To:". The criteria include Customer ID, Customer name, Dealer ID, Branch ID, Group, Class, Zip/Post, User ID, Area, and User No / Card No. Each of these fields has a search icon (magnifying glass) to its right. At the bottom of the search criteria, there are two date and time pickers: one for the start date and time (03/15/2007 00:00:00) and one for the end date and time (03/15/2007 23:59:59). Below the search criteria, there are two sections of radio buttons. The first section is labeled "Activity Type" and has three options: "All activity" (selected), "Exception activity", and "Open/close activity". The second section is labeled "Dispatched" and has three options: "All" (selected), "Dispatched", and "Not dispatched". At the bottom right of the dialog, there are two buttons: "Options..." and "Advanced...".

To run a report, enter the requested parameters to produce the correct customer or group of

customers that receive a report. Always make sure to select an appropriate date range for the requested report as well as if all activity, only exception activity or only open/close activity is required.

Advanced Search Options

Clicking on the Advanced button at the bottom right corner of the screen will bring up additional search options:

Customer Activity Advanced Settings

Customer Activity

Event Codes: ** Unknown Event
 *1 GSM Link Fail
 *2 GSM No Response
 *3 Land Line Link Fail
 *4 Land Line No Respons
 *5 GSM Resp OK
 *6 Land Line Resp OK
 *7 GSM Remote Link Fail
 *8 GSM Remote Resp OK
 *A Activation
 *A1 Unknown Card
 *A2 Unassigned Card
 *A3 Unauthorized Access
 *AX Unexpected Area
 *B Bypass
 *BA Burglary Alarm
 *C Close
 *CA Call Answered

Event Categories: Access Alarms
 Burglary
 Emergency
 Environmental Alarms
 Fire Alarm
 General Alarms
 Holdup / Personal Attack
 Medical Alarms

Resolution Codes: Group 1
 AC Actual Alarm
 AN Animal Caused
 AU Closed by Auto Client
 CM Company Caused
 CU Customer Caused
 EM Email Notification
 EQ Equipment Caused

Customer types: Residential
 Commercial
 ULCB
 ULC Fire

Log record types: Signal
 Alarm
 Handled (Viewed)
 Action
 Response Time
 Reverse Command
 Alarm Confirmation
 Unassigned Signal

From: To:

Sensor:

Device:

Sector:

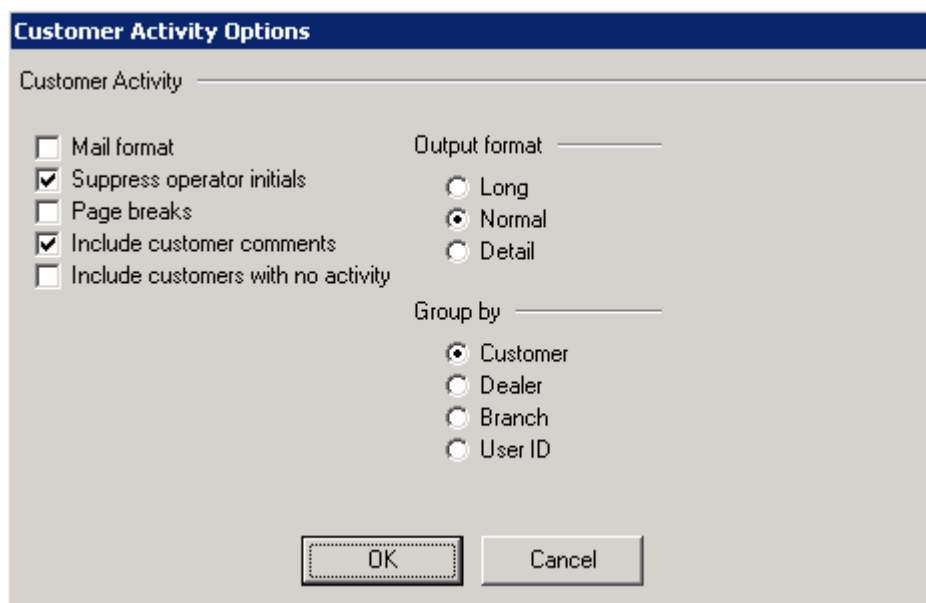
The advanced search options are divided into five categories: Event Codes, Event Categories, Customer Types, Resolution Codes and Log Record Types. All options are checked by default and it is recommended to leave all options as such.

- **Event Codes** – use this to select only the events required.
- **Event Categories** – use this to narrow the scope of the events to the category of alarm/signal events.
- **Customer Types** – will select only the customers of the selected type(s).

- **Resolution Codes** – will select the alarms with the specified resolution codes.
- **Log record types** – is a vital determining factor of what results appear on the finished report. Manitou defaults some standard log record types for all reports. However, some reports do not need all the defaults so it will be important to come to the Advanced dialog and remove the unnecessary log record types.

Advanced Customer Activity Options

Clicking on the Options button will allow users to include additional report summary options. Among other things, users may choose to suppress Operator initials or include customer comments. The report output may be in long, normal, or detailed format, and can be grouped by customer, dealer, branch or user ID.



The screenshot shows a dialog box titled "Customer Activity Options". It contains several settings:

- Customer Activity** (header)
- Mail format
- Suppress operator initials
- Page breaks
- Include customer comments
- Include customers with no activity
- Output format** (dropdown menu):
 - Long
 - Normal
 - Detail
- Group by** (dropdown menu):
 - Customer
 - Dealer
 - Branch
 - User ID

At the bottom, there are "OK" and "Cancel" buttons.

Once the search parameters are set, click Next to continue running the report.

Daily Signals

The **Daily Signals** report produces similar results to the Customer Activity report with the exception of how the results display. While the Customer Activity report displays its results by the Contract number and then by the Alarm Report number, the Daily Signals report displays only by date. The Daily Signals report has the same advanced options as the Customer Activity report in order to narrow the results with the exception of the Log Record Type. Since this report does not list alarm details, there is no need for the option.

The Daily Signals report will list the signals for a day or date range based on the entered criteria. The default results produces the signal date then list the signals by time with customer ID the Signal type (A=Alarm, S=Signal), the Event Category, the Signal or Alarm description and if the alarm was dispatched.

Daily Signals

Report Description: Priority:

From: To:

Customer ID

Customer name

Dealer ID

Branch ID

Group

Class

Include Customer Name

Include details

Filter by dispatch types

Log record types:

Signal

Alarm

Ignored Signal

Output format —

Long

Normal

Detail

Group by —

Date

Dealer

Branch

Summary —

None

Each Day

Grand Totals Only

Advanced Search Options

Clicking on the Advanced button at the bottom right corner of the screen will bring up additional search options:

Daily Signals Advanced Settings

Daily Signals: _____

Event Codes: _____ Event Categories: _____ Dispatch types: _____

<input checked="" type="checkbox"/> ** Unknown Event <input checked="" type="checkbox"/> *1 GSM Link Fail <input checked="" type="checkbox"/> *2 GSM No Response <input checked="" type="checkbox"/> *3 Land Line Link Fail <input checked="" type="checkbox"/> *4 Land Line No Respons <input checked="" type="checkbox"/> *5 GSM Resp OK <input checked="" type="checkbox"/> *6 Land Line Resp OK <input checked="" type="checkbox"/> *7 GSM Remote Link Fail	<input checked="" type="checkbox"/> Access Alarms <input checked="" type="checkbox"/> Burglary <input checked="" type="checkbox"/> Emergency <input checked="" type="checkbox"/> Environmental Alarms <input checked="" type="checkbox"/> Fire Alarm <input checked="" type="checkbox"/> General Alarms <input checked="" type="checkbox"/> Holdup / Personal Attack <input checked="" type="checkbox"/> Medical Alarms	<input checked="" type="checkbox"/> Police <input checked="" type="checkbox"/> Fire <input checked="" type="checkbox"/> Medical <input checked="" type="checkbox"/> Agency <input checked="" type="checkbox"/> Site/Customer Contact <input checked="" type="checkbox"/> Dealer <input checked="" type="checkbox"/> Break
--	--	---

Resolution Codes: _____ Customer types: _____

<input checked="" type="checkbox"/> Group 1 <input checked="" type="checkbox"/> AC Actual Alarm <input checked="" type="checkbox"/> AN Animal Caused <input checked="" type="checkbox"/> AU Closed by Auto Client <input checked="" type="checkbox"/> CM Company Caused <input checked="" type="checkbox"/> CU Customer Caused <input checked="" type="checkbox"/> EM Email Notification <input checked="" type="checkbox"/> EQ Equipment Caused	<input checked="" type="checkbox"/> Residential <input checked="" type="checkbox"/> Commercial <input checked="" type="checkbox"/> ULCB <input checked="" type="checkbox"/> ULC Fire
---	---

OK Cancel

The advanced search options are divided into five categories: Event Codes, Event Categories, Resolution Codes, Dispatch Types and Customer Types. All options are checked by default and it is recommended to leave all options as such.

- **Event Codes** – use this to select only the events required.
- **Event Categories** – use this to narrow the scope of the events to the category of alarm/signal events.
- **Resolution Codes** – will select the alarms with the specified resolution codes.
- **Customer Types** – will select only the customers of the selected type(s).
- **Dispatch Types** - will select the type of dispatch sent to a customer site.

Once the search parameters are set, click Next to continue running the report.

Handled Signals by Operator

The **Handled Signals by Operator** report is a useful management tool to view the number of alarms Operators are handling.

The report results display the Operator's User ID, Operator Name, the number of alarms acknowledges and the total number of alarms closed by that Operator. The total number of alarms could differ greatly from the number of alarms acknowledged if:

- The ability to cancel alarms from the Alarm Queue is allowed; and
- The Operator is able to close alarms of equal or lower priority along with the alarm they just acknowledged and completed.

Once the search parameters are set, click Next to continue running the report.



An Acknowledged alarm is an alarm that had a contact action, an action that required an Operator to call someone. Operators may handle an alarm fully and never pick up the telephone to contact a person, and that would be considered a closed alarm but not acknowledged.

Signal Count by Customer

The **Signal Count by Customer** report will produce a report detailing the number of signals, alarms and ignored signals for each customer. An ignored signal is one that was ignored by the system often when utilizing a programming feature such as Entry/Exit delay. The Entry/Exit delay process will ignore any signals that were part of the Entry or Exit process if followed or preceded by an Open or Close signal.

Signal Count by Customer

Report Description: Priority:

From : To :

Customer ID

Customer name

Dealer ID

Branch ID

Group

Class

Minimum no. of signals/customer

Group by: _____

Customer
 Dealer
 Branch

Advanced Search Options

Clicking on the Advanced button at the bottom right corner of the screen will bring up additional search options:

Signal Count by Customer Advanced Settings

Signal Count by Customer

Event Codes: _____ Event Categories: _____ Log record types: _____

<input checked="" type="checkbox"/> ** Unknown Event <input checked="" type="checkbox"/> *1 GSM Link Fail <input checked="" type="checkbox"/> *2 GSM No Response <input checked="" type="checkbox"/> *3 Land Line Link Fail <input checked="" type="checkbox"/> *4 Land Line No Respons <input checked="" type="checkbox"/> *5 GSM Resp OK <input checked="" type="checkbox"/> *6 Land Line Resp OK <input checked="" type="checkbox"/> *7 GSM Remote Link Fail <input checked="" type="checkbox"/> *8 GSM Remote Resp OK <input checked="" type="checkbox"/> *A Activation <input checked="" type="checkbox"/> *A1 Unknown Card <input checked="" type="checkbox"/> *A2 Unknown Card	<input checked="" type="checkbox"/> Access Alarms <input checked="" type="checkbox"/> Burglary <input checked="" type="checkbox"/> Emergency <input checked="" type="checkbox"/> Environmental Alarms <input checked="" type="checkbox"/> Fire Alarm <input checked="" type="checkbox"/> General Alarms <input checked="" type="checkbox"/> Holdup / Personal Attack <input checked="" type="checkbox"/> Medical Alarms <input checked="" type="checkbox"/> Network Alarm <input checked="" type="checkbox"/> Open / Close <input checked="" type="checkbox"/> Service Signals	<input checked="" type="checkbox"/> Signal <input checked="" type="checkbox"/> Alarm <input checked="" type="checkbox"/> Ignored Signal
--	--	---

The advanced search options are divided into three categories: Event Codes, Event

Categories, and Log Record Types. All options are checked by default and it is recommended to leave all options as such.

- **Event Codes** – use this to select only the events required.
- **Event Categories** – use this to narrow the scope of the events to the category of alarm/signal events.
- **Log record types** – is a vital determining factor of what results appear on the finished report. Manitou defaults some standard log record types for all reports. However, some reports do not need all the defaults so it will be important to come to the Advanced dialog and remove the unnecessary log record types.

Once the search parameters are set, click Next to continue running the report.

Unrestored Signals

The **Unrestored Signals** report is a maintenance report and is typically run to verify if an alarm received a restore signal or if the account requires maintenance in order to clear out the closed, yet unrestored, alarms. The report lists all alarms that have Restore Required that are not yet restored. Additionally if the Option setting of Track Additional Statuses is set to Yes the additional panel statuses could also be unrestored. These additional panel statuses are not restored by an alarm restore and therefore can load up and create restore overdue signals when the alarm itself is restored.

Unrestored Signals

Report Description: Priority:

From : To :

Customer ID

Customer name

Dealer ID

Branch ID

Group

Class

Signal Date

Minimum number of minutes unrestored:

Order by

Date

Customer ID

When run on default settings, the report will find all unrestored signals that are unrestored for greater than 10 minutes and sort the results by date. The report may be further limited or

expanded by increasing or decreasing the minimum number of minutes the signals are unrestored and by defining a Customer ID, Customer name, Dealer ID, Branch ID, Group or Class Code or by date or date range.

Advanced Search Options

Clicking on the Advanced button at the bottom right corner of the screen will bring up additional search options:

Unrestored Signals Advanced Settings

Unrestored Signals

Event Codes: _____ Status Types: _____

<input checked="" type="checkbox"/> ** Unknown Event	<input checked="" type="checkbox"/> Alarm Status
<input checked="" type="checkbox"/> *1 GSM Link Fail	<input checked="" type="checkbox"/> Zones in Fault at Panel
<input checked="" type="checkbox"/> *2 GSM No Response	<input checked="" type="checkbox"/> Zones Bypassed at Panel
<input checked="" type="checkbox"/> *3 Land Line Link Fail	<input checked="" type="checkbox"/> Line Faults
<input checked="" type="checkbox"/> *4 Land Line No Respons	
<input checked="" type="checkbox"/> *5 GSM Resp OK	
<input checked="" type="checkbox"/> *6 Land Line Resp OK	
<input checked="" type="checkbox"/> *7 GSM Remote Link Fail	
<input checked="" type="checkbox"/> *8 GSM Remote Resp OK	
<input checked="" type="checkbox"/> *A Activation	
<input checked="" type="checkbox"/> *A1 Unknown Card	
<input checked="" type="checkbox"/> *A2 Unassigned Card	
<input checked="" type="checkbox"/> *A3 Unauthorized Access	
<input checked="" type="checkbox"/> *AX Unexpected Area	
<input checked="" type="checkbox"/> *B Bypass	
<input checked="" type="checkbox"/> *BA Burglary Alarm	
<input checked="" type="checkbox"/> *C Close	
<input checked="" type="checkbox"/> *CA Call Attempt	

OK Cancel

The advanced search options are divided into two categories: Event Codes and Status Types. All options are checked by default and it is recommended to leave all options as such.

- **Event Codes** – use this to select only the events required.
- **Status Types** - check any

Once the search parameters are set, click Next to continue running the report.

User History

The **User History** report is designed to show Operator login and logoff information.

The screenshot shows the 'User History' report configuration interface. At the top, the report description is 'User History' and the priority is set to 6. The date range is from 03/15/2007 00:00:00 to 03/15/2007 23:59:59. The 'Operator' list includes the following entries, all of which are checked:

- ACT - Activity only
- AN - Alan Newton
- ACH - Anna Haiar
- BF - Bill Fox
- BT - Bold Technologies
- CM - Caryn Morgan
- CMU - Caryn Morgan Ope...
- DATA - Data Entry
- DT - Dealer Test Septemb...
- GMB - Matt Brokaw
- IN - Integration
- JAT - Jen (Operator)
- JT - Jennifer Theobald
- JVB - Jose Valenzuela
- MTN - Matthew Narowski

The 'Include' options are:

- All
- Login
- Logoff

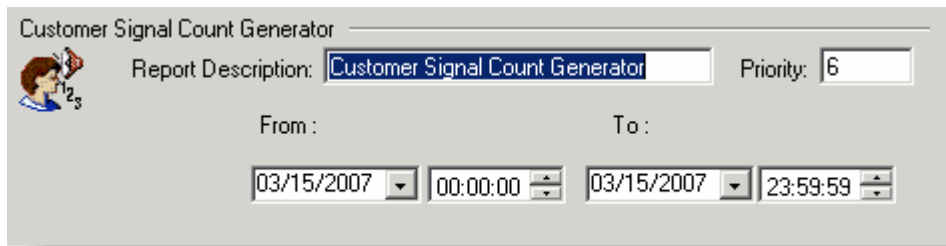
Users may choose to include all history information, or limit the report to login or logoff information. Once the search parameters are set, click Next to continue running the report.

Custom Reports

Custom Reports are reports that one or more customer sites paid to have implemented within the Manitou system. These reports end up benefiting the entire community as a result.

Customer Signal Count Generator

The **Customer Signal Count Generator** is an exception report used to find accounts that do not contain class codes or other information that will enable the Dealer Signal Count report to run and give accurate results. The report runs by default on the current date. The dates can be adjusted to include a date range; however, most want to know these results as of today and now not what the data was in the past.



The screenshot shows a software window titled "Customer Signal Count Generator". On the left is a small icon of a person with a speech bubble. The window contains the following fields:

- Report Description:** A text box containing "Customer Signal Count Generator".
- Priority:** A text box containing "6".
- From:** A date and time selector showing "03/15/2007" and "00:00:00".
- To:** A date and time selector showing "03/15/2007" and "23:59:59".

Once the search parameters are set, click Next to continue running the report.

Dealer Billing Deferred Revenue (COPY)

The Dealer Billing Deferred Revenue will be tracked when enhanced billing is licensed. The report will display the necessary deferred revenue adjustments that need to be made. The adjustments must be entered manually into the accounting software.

Dealer Billing Generate (COPY)

The Dealer Billing Generate report will report on all billing discrepancies, which can then be resolved in Manitou. In the example below, the report was run for all existing Dealers. Please note that in the main report forms, the Prorate Date Limit field governs the date before which charges are allowed.

03/10/2009 11:50

ID: BOLD

Dealer Billing Generate Report

Billing Date: 04/01/2009
 Prorate Date Limit: 02/01/2009
 Activity Start Date: 02/01/2009 00:00:00
 Activity End Date: 03/28/2009 23:59:59

<u>Dealer</u>	<u>Customer ID</u>	<u>Date</u>	<u>Message</u>
DLR001	100-01		No recurring billing info found for item code 'DLR1FIRE'. Services with this item code will not be billed.
DLR001	100-01		No add charge billing info found for item code 'DLR1FIRE'. No add charges will be generated for services with this item code.
DLR001	100-01		No recurring billing info found for item code 'O/C SUPERVISED'. Services with this item code will not be billed.
DLR001	100-01		No add charge billing info found for item code 'O/C SUPERVISED'. No add charges will be generated for services with this item code.
DLR001	100-01		No signal overage billing info found for item code 'DLR1FIRE'. No signal overage charges will be generated for services with this item code.
DLR002			Dealer is not linked to accounting. No invoice lines will be generated.
DLR003			Dealer is not linked to accounting. No invoice lines will be generated.
DLR0101	XML000001		No recurring billing info found for item code 'ALARM MONITORING'. Services with this item code will not be billed.
DLR0101	XML000001		No add charge billing info found for item code '2DT'. No add charges will be generated for services with this item code.
DLR0101	XML000002		No recurring billing info found for item code 'SILVER SERVICE'. Services with this item code will not be billed.
DLR0101	XML000003		No recurring billing info found for item code 'GOLD SERVICE'. Services with this item code will not be billed.
DLR0101	XML000005		No recurring billing info found for item code 'O/C SUPERVISED'. Services with this item code will not be billed.
DLR0101	XML000001		No signal overage billing info found for item code 'ALARM MONITORING'. No signal overage charges will be generated for services with this item code.
1982			Dealer is not linked to accounting. No invoice lines will be generated.

The first messages for DLR001 indicate that no billing charge codes were found at the Dealer or Monitoring Company Billing Charges form for the item code "DRL1FIRE." To remedy this, the appropriate billing charge code must be added to either the Dealer or the Monitoring Company. Other messages indicate that some dealers are not linked to accounting.

These messages are simply warnings, indicating that the charges will not be posted to the accounting software. Rectifying these issues will allow for the charges to be posted.

Dealer Billing Preview (COPY)

The Dealer Billing Preview report will list all transactions that are ready to be posted to the accounting system for dealer billing. This preview can be run as many times as needed, and should be the last report run before running the Dealer Billing Post. Users have several options for this report. For instance, the monitoring company may wish to send out the report to each individual Dealer by selecting a specific Dealer ID. More notable options include Dealer Options and Grand Totals Options. The Dealer Options checkboxes allow the user to select whether the report should include all details, or should be summarized by charge type and/or billing code. The Grand Totals Options will display a total amount of charge types or billing types, or may be used to just show the charge type summary or the billing code summary.

03/10/2009 12:04

ID: BOLD

Dealer Billing Preview

Order By: Customer
Show: Dealer Details, Grand Total Amt

DLR001 - Dealer One

Total: 0.00

DLR0101 - Alarm Security Install Services

<u>Customer ID</u>	<u>Name</u>	<u>Charge Type</u>	<u>Service</u>	<u>Billing Code</u>	<u>From</u>	<u>To</u>	<u>Qty</u>	<u>Price</u>	<u>Amt</u>
XML000001	Matt Narowski	Recurring	Every Other Day Test	2DT	04/01/2009	04/30/2009	1	4.00	4.00
		Prorated	Every Other Day Test	2DT	03/10/2009	03/31/2009	1	4.00	2.84
								Total:	6.84
								Grand Total:	6.84

In this example, the Dealer Billing Preview report was run for DLR001 with the Details and Total Amount options checked. These options will display the customer ID and Customer Name, the charge types associated with the customer, the services, billing codes, and the dates that the services are enabled. Additionally, all charges are added up and totaled at the end of the report.

Dealer Billing Post (COPY)

Once the Dealer Billing Preview report has been run, the Dealer Billing Post report is the final step in order to post the billing to the accounting system. The only editable fields in this report is the Report Description and the Invoice Date. Checking the Invoice Date box will post the billing to that exact date in the accounting software.

03/10/2009 12:10

Dealer Billing Post Report

Invoice Date: 04/01/2009

Billing Date: 04/01/2009

DLR001

Total invoice lines created: 0

DLR0101

Total invoice lines created: 2

Finalization

Successfully created all invoices. Posting the invoices.

Successfully posted the invoices. Updating billing cycle to next month.

Summary

	Total	
Invoiced	\$	6.84
Deferred	\$	0.00
Net Invoiced	\$	6.84
Deferred Revenue Realized	\$	0.00
Net Revenue	\$	6.84

Dealer Signal Count

The **Dealer Signal Count** report lists the number of signals for each customer based on the dealer and the dealer's billing settings.

Dealer Signal Count

Report Description: Priority:

From: To:

Dealer ID

Once the search parameters (Dealer IDs) are set, click Next to continue running the report.

Maintenance Reports

The Maintenance report section contains the reports that apply to account and system maintenance.

Access Control Card Lookup

The **Access Control Card Lookup** report provides a list of specific access control cards detailed in one report. This list may be useful as a scheduled report customers

who utilize Access Control to view when employees have accessed the building.

Users may enter search criteria based on Customer ID, Customer Name, Dealer ID, Branch ID, Group or Class. The report may also include the time the building was last accessed. Users can also limit the search to a specific date and time period.

Once the search parameters have been set, click Next to continue running the report.

Access Control Cards/Pins

The Access Control Cards/Pins report provides a detailed list of customers at a site that utilize Access Control and may wish to view a master report of employees at the site with Access Control cards or pin numbers. The report includes the Transmitter ID, the Card ID, the name of the person to whom the card belongs, the Card ID and the Type of card.

Users may enter search criteria based on Customer ID, Customer Name, Dealer ID, Branch ID, Group or Class. The report may also include the time the building was last accessed. Users can also limit the search to a specific date and time period.

Once the search parameters have been set, click Next to continue running the report.

Customer Add/Del

The **Customer Add/Delete** report produced two different sets of results depending if the Include details checkbox is selected or not. The checkbox is selected by default. It is also set to one day and all adds and deletions grouping by date by default as well.

The screenshot shows a dialog box titled "Customer Add/Delete". At the top left is a small icon of a person with a plus sign. To the right of the icon is a "Report Description:" field containing the text "Customer Add/Delete" and a "Priority:" field containing the number "6". Below these are two columns of search criteria: "From:" and "To:". Under "From:", there are two rows: "Dealer ID" and "Branch ID", each with a text input field and a magnifying glass icon. Below these are two date and time pickers: "03/15/2007" and "00:00:00". Under "To:", there are two rows: "Branch ID" and "Dealer ID", each with a text input field and a magnifying glass icon. Below these are two date and time pickers: "03/15/2007" and "23:59:59". At the bottom left is a checked checkbox labeled "Include details". At the bottom center are two sections: "Include:" and "Summary:". Under "Include:" are three radio buttons: "All" (selected), "Adds", and "Deletes". Under "Summary:" are three radio buttons: "By Date" (selected), "By Dealer", and "By Branch".

Users may search by Dealer ID or Branch ID. Once the search parameters are set, click Next to continue running the report.

Customers with Transmitter Type

The **Customers with Transmitter Type** report is a useful Maintenance tool, as it produces what customers have which transmitter types within the Manitou system. This can help with the plan of moving customers from an older transmitter to newer and better equipment. The report results may be expanded or reduced by entering the transmitter type, or selecting the customer ID or name, Dealer or Branch ID, Group or Class code or Receiver Line Prefix.

Customers With Tx Type

Report Description: Customers With Tx Type Priority: 6

From : To :

Transmitter type

Customer ID

Customer name

Dealer ID

Branch ID

Group

Class

Rec Line Prefix

- 00 - default
- 01 - Dealer Accounts
- 02 - sfadfdssfd01
- 03 - New Prefix01
- 04 - RLD 04
- 05 - RLD 05

Users may select or deselect the Receiver Line Prefix from the Rec Line Prefix menu. Once the search parameters are set, click Next to continue running the report.

Maintenance Issues

The Maintenance Issues report is designed to list maintenance issues that were entered into the application through the Manitou Client or the Supervisor Workstation.

There are two ways to run this report: with or without the Maintenance log information. Running the report *without* the maintenance log information will give the Operator a quick report of current outstanding Maintenance items within the system. Running the report *with* the maintenance log information gives the Operator the detailed notes that were entered into the report.

By default the report only lists the currently unresolved issues. This will report the same information that is also available in the Manitou Client and Supervisor Workstation on the Maintenance menu. By default the report does not include the full text of the Maintenance log in order to conserve space. Filters include Types, Resolution (if the issue has been resolved) and Operator initials.

Advanced Search Options

Clicking on the Advanced button at the bottom right corner of the screen will bring up additional search options:

Users may opt to search by Agency ID, Authority ID, or Global Keyholder ID. Once the search parameters are set, click Next to continue running the report.

Permit Exception

A **Permit Exception** occurs when an Authority requires a permit and the customer cannot produce the required permit. The default selections include inactive accounts. If the company desires only the active accounts, it is necessary to uncheck that option upon initial load of the report. This report may be ordered by Customer, Dealer or Branch and narrowed to a specific Authority type or even run for one specific Authority.

The screenshot shows a software window titled "Permit Exception". At the top left is a red warning icon. The "Report Description" field contains "Permit Exception" and the "Priority" is set to "6". Below this are two columns of search criteria labeled "From:" and "To:". The criteria include Customer ID, Customer name, Dealer ID, Branch ID, Group, Class, and Authority ID, each with a search icon. A "Status date" section shows a date of 03/15/2007 and a time range from 00:00:00 to 23:59:59. At the bottom, there are three sections: "Monitoring status" with checkboxes for Pending (checked), Inactive, and Active (checked); "Authority types to include:" with checkboxes for Police (checked), Fire (checked), and Medical (checked); and "Order by:" with radio buttons for Customer ID (selected), Customer Name, Dealer/Dealer ID, Dealer/Name, and Branch.

Once the search parameters are set, click Next to continue running the report.

Permit Expiration

The Permit Expiration report is designed to list all the police, fire, and medical permits that have expired. If a permit expires, the customer must renew it or they may not get service from the authorities. Each Central Station has a different policies and usage for permits, therefore, each Central Station will have to decide if this report is necessary.

Permit Expiration

Report Description: Priority:

From: To:

Customer ID

Customer name

Dealer ID

Branch ID

Group

Class

Authority ID

Expiration date

Authority types to include: Customer types to include: Order by:

<input checked="" type="checkbox"/> Police <input checked="" type="checkbox"/> Fire <input checked="" type="checkbox"/> Medical	<input checked="" type="checkbox"/> Residential <input checked="" type="checkbox"/> Commercial <input checked="" type="checkbox"/> ULCB <input checked="" type="checkbox"/> ULC Fire	<input checked="" type="radio"/> Expiration date <input type="radio"/> Customer ID <input type="radio"/> Authority type
---	---	---

This report produces the listing of permits that expire *within the applicable date range*, and not just list the permits that are currently expired. This report may be further controlled by selecting a date or date range or by entering Customer ID or name, Dealer or Branch IDs, Group or Class codes. The results may be ordered by Expiration Date, Customer ID or Authority Type.

Once the search parameters are set, click Next to continue running the report.

Where Used on Contact List

The **Where Used on Contact List** report will produce a listing of the customer, dealer, branch, authority, agency, etc. records where the selected entity is listed on the Contact List.

Entities that can be listed on a Contact List:

- Monitoring Company
- Dealer
- Agency
- Branch
- Authority
- Customer

- Global Keyholder (Contact)

The screenshot shows a dialog box titled "Where Used On Contact List". It contains the following fields:

- Report Description: A text box containing "Where Used On Contact List".
- Priority: A text box containing "6".
- From: A dropdown menu currently showing "Customer".
- To: A dropdown menu (empty).
- Contact type: A dropdown menu currently showing "Customer".
- Contact ID: A text box with a search icon to its right.

There may be several sites where a contact person is listed individually on multiple customer records. This report will not be able to collect any information on those persons as they are not global keyholders. Persons must have a Contact ID in order to be listed in the Where Used on Contact List report. Once the search parameters are set, click Next to continue running the report.

Master File Reports

The Master File section not only contains the Customer Master File report, but also the Master file reports for Dealer, Agency, Authority, Branch, Monitoring Company and every other form housed within the Supervisor workstation that contains data.

Access Control Card Formats

The **Access Control Card Formats** report provides a list of Access Control cards associated with a certain format. The only search criteria needed to run this report is a format number. If no format number is entered, the report will list all Access Control cards.

The screenshot shows a dialog box titled "Access Control Card Formats". It contains the following fields:

- Report Description: A text box containing "Access Control Card Formats".
- Priority: A text box containing "6".
- From: A text box (empty).
- To: A text box (empty).
- Format Number: A text box (empty).

Once the search parameters are met, click Next to continue running the report.

Accounting Companies

The **Accounting Companies** report provides a report of all accounting companies linked to the Manitou system, the direction it is linked (for instance, Accounting to Manitou), as well as the DSN, username password and server associated with the particular accounting company.

The screenshot shows the 'Accounting Companies' report configuration window. It includes a 'Report Description' field with 'Accounting Companies' entered, a 'Priority' field with '6', and 'From' and 'To' dropdown menus for 'Company ID'. Below these are two sections: 'Accounting Company Type' with checkboxes for 'Navision' and 'Sedona', and 'Direction of Interface In List' with checkboxes for 'Not interfaced', 'Manitou to Accoun...', 'Accounting to Man...', and 'Read only'.

Select a company ID from the drop down menu, as well as the accounting company type and the direction of the interface to set the search criteria. Once the search parameters are met, click Next to continue running the report.

Agency Master File

The **Agency Master File** report lists the details of the Agencies within the Manitou database. This report may include or exclude as much or as little information as desired.

The screenshot shows the 'Agency Master File' report configuration window. It includes a 'Report Description' field with 'Agency Master File' entered, a 'Priority' field with '6', and 'From' and 'To' search fields for 'Agency ID'. Below these are four more search fields for 'Agency name', 'City', and 'Region'. At the bottom left are three unchecked checkboxes: 'Mail format', 'Suppress passwords', and 'Page breaks'. An 'Advanced...' button is located at the bottom right.

Advanced Search Options

Clicking on the Advanced button at the bottom right corner of the screen will bring up additional search options:

Agency Master File Advanced Options...

Authority Master File

Sub-reports: _____ Contact List type: _____ Agency types: _____

- Address
- Contact Information
- Options
- Call Lists
- Attention
- Temporary Comments
- Standing Instructions
- Special Instructions
- General Schedules
- Entity Contact List Details

Contact List type:

- Person
- Agency

Agency types:

- Guarding
- Cleaner-Janitorial
- Mechanical Service
- Cash In Transport
- Keys & Locks
- Inspectors
- Lawn & Garden
- Electrical & Lighting
- Plumbing
- Heating
- Alternate Police Authority
- Alternate Fire Authority
- Alternate Medical Authority

OK Cancel

The advanced option allows for the selection or de-selection of sub-reports, contact lists, and agency types to further narrow or expand the report results. To select none or all of the advanced options, simply right-click within each section and either click the Select All or Select None options. Once the search parameters are set, click Next to continue running the report.

Application Types

The Application Types report produces the same information that is available within the Application Types form in the Supervisor Workstation. The report does not require any user-entered criteria.

Application Types

Report Description: Priority:

Authority Master File

The **Authority Master File** report lists the details of the Authorities within the Manitou database. This report may include or exclude as much or as little information as desired.

Authority Master File

Report Description: Priority:

From : To :

Authority ID

Authority name

City

Region

Suppress passwords

Page breaks

Advanced Search Options

Clicking on the Advanced button at the bottom right corner of the screen will bring up additional search options:

Authority Master File Advanced Options...

Authority Master File

Sub-reports: Contact List type: Authority types:

Address

Contact Information

Options

Call Lists

Attention

Temporary Comments

Standing Instructions

Special Instructions

General Schedules

Entity Contact List Details

Person

Authority

Police

Fire

Medical

The advanced dialog allows for the selection or de-selection of sub-reports, contact lists, and authority types to further narrow or expand the report results. To select none or all of the advanced options, simply right-click within each section and either click the Select All or Select None options. Once the search parameters are set, click Next to continue running the report.

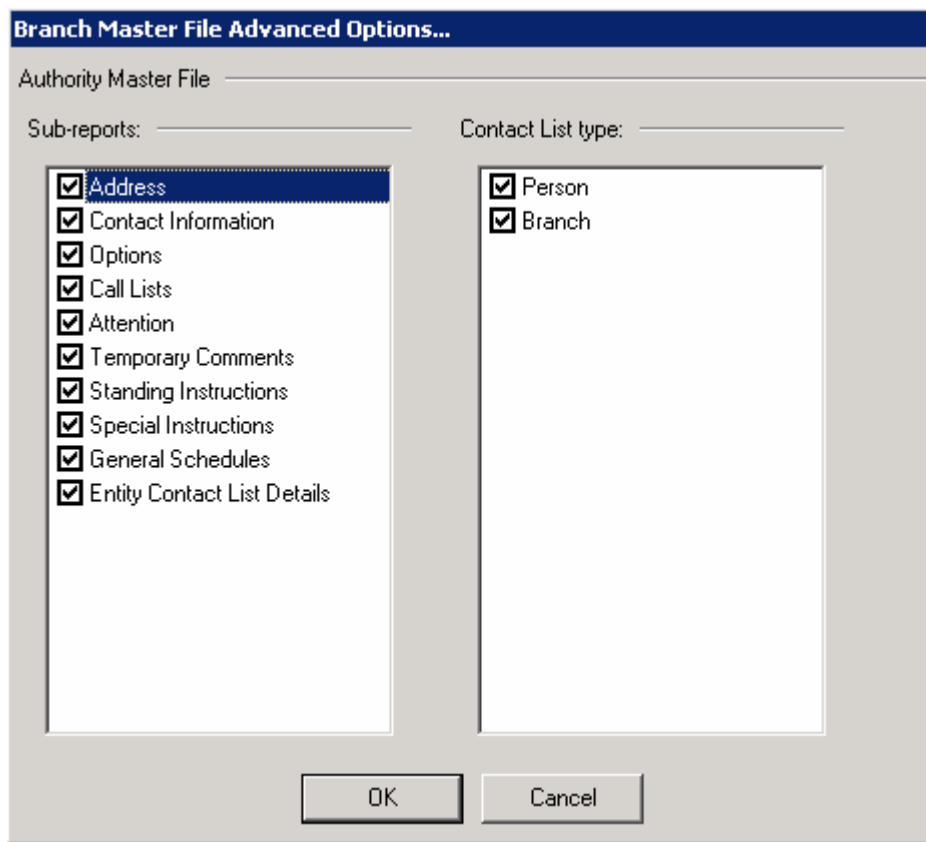
Branch Master File

The **Branch Master File** report lists the details of the Branches within the Manitou database. This report may include or exclude as much or as little information as desired.

The screenshot shows a dialog box titled "Branch Master File". At the top, there is a "Report Description:" field containing "Branch Master File" and a "Priority:" field containing "6". Below this, there are two columns of search criteria: "From:" and "To:". The "From:" column has four input fields for "Branch ID", "Authority name", "City", and "Region", each with a search icon. The "To:" column has four empty input fields. At the bottom left, there are two checkboxes: "Suppress passwords" and "Page breaks", both of which are unchecked. At the bottom right, there is an "Advanced..." button.

Advanced Search Options

Clicking on the Advanced button at the bottom right corner of the screen will bring up additional search options:



The advanced dialog allows for the selection or de-selection of sub-reports and contact lists to further narrow or expand the report results. To select none or all of the advanced options, simply right-click within each section and either click the Select All or Select None options. Once the search parameters are set, click Next to continue running the report.

Cities

The Cities report lists the cities based on the entered criteria. The Region and Cities fields are data entry fields and the data entry must match the spelling of the city and state/region as it has been entered in the database.

Cities

Report Description: Priority:

From :

To :

Region

City

Country

- United States of America
- Canada
- United Kingdom
- Mexico



It is suggested to narrow the cities list by entering a region into the selection criteria. For databases with cities for every region, running the report by the defaults could impact the Report Server's ability to run other reports.

Class Codes

The **Class Codes** report lists the Class Codes currently available within the database. It is not necessary to enter or select any criteria to receive a listing of all the class codes within the database. However, the user wishes to view class codes within a range, then criteria may be entered into the From and To fields.

Class Codes

Report Description: Priority:

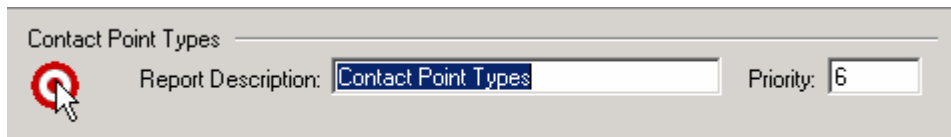
From :

To :

Class

Contact Point Types

The **Contact Point Types** report lists all the different Contact point types available within the Manitou system. These include telephone numbers, emails addresses, pager and fax numbers, and web addresses. There is no user entered criteria because the report only has one output.

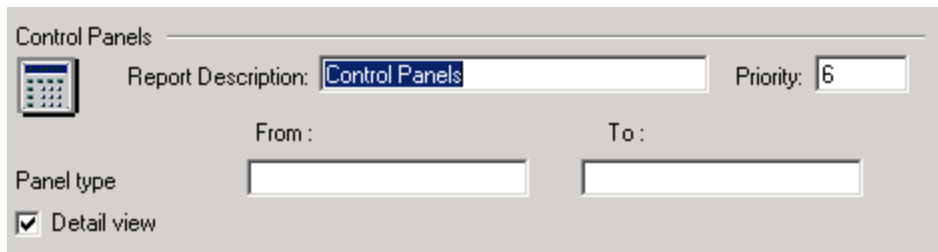


Contact Point Types

Report Description: Priority:

Control Panels

The **Control Panels** report lists the Control Panels within Manitou and their details. It is possible to run this report with and without details, however users may enter search criteria in the From and To fields if desired.



Control Panels

Report Description: Priority:

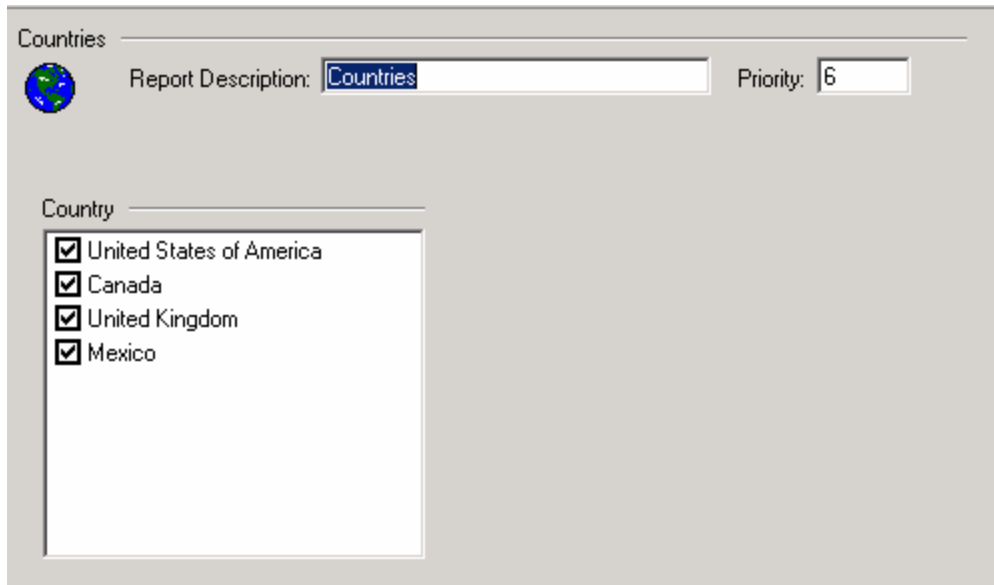
From : To :

Panel type

Detail view

Countries

The **Countries** report produces the Country details available in the Supervisor Workstation. Most companies will only have one country, however this report may be limited to one or all selected countries. The report output only displays the Country Options Telephone and Time information and the Mailing Address Layout information.



Countries

Report Description: Priority:

Country

- United States of America
- Canada
- United Kingdom
- Mexico

Customer Master File

The Customer Master File report contains all the data housed within the Customer form. Operators may adjust the report parameters to view as much or as little of the customer

information as desired. The report is designed to have a reference if the customer data was lost and it was necessary to enter the data back into Manitou. The report is *not* designed for manual alarm handling.

Explanation of Search Criteria

- **Commission date** – The date the account was activated.
- **Create date** – The date that the account was initially created within the database. This is *not* a date easily located through the User Interface.
- **Last updated date** – The date the last data change occurred within the customer record. If an Operator edits and saves the record without making any change to the customer data, this does not update the last updated date.
- **Marked for reprint** – The checkbox on the customer save notes dialog that is checked “Mark customer for reprint” sets this value and the report server then looks for the records with this value. This value is reset when the "reset reprint" box is checked.
- **Reset reprint flag after publishing to printer** – This will reset the “Marked for reprint” flag on all customer records included in this report’s parameters. This value is reset when the "reset reprint" box is checked.

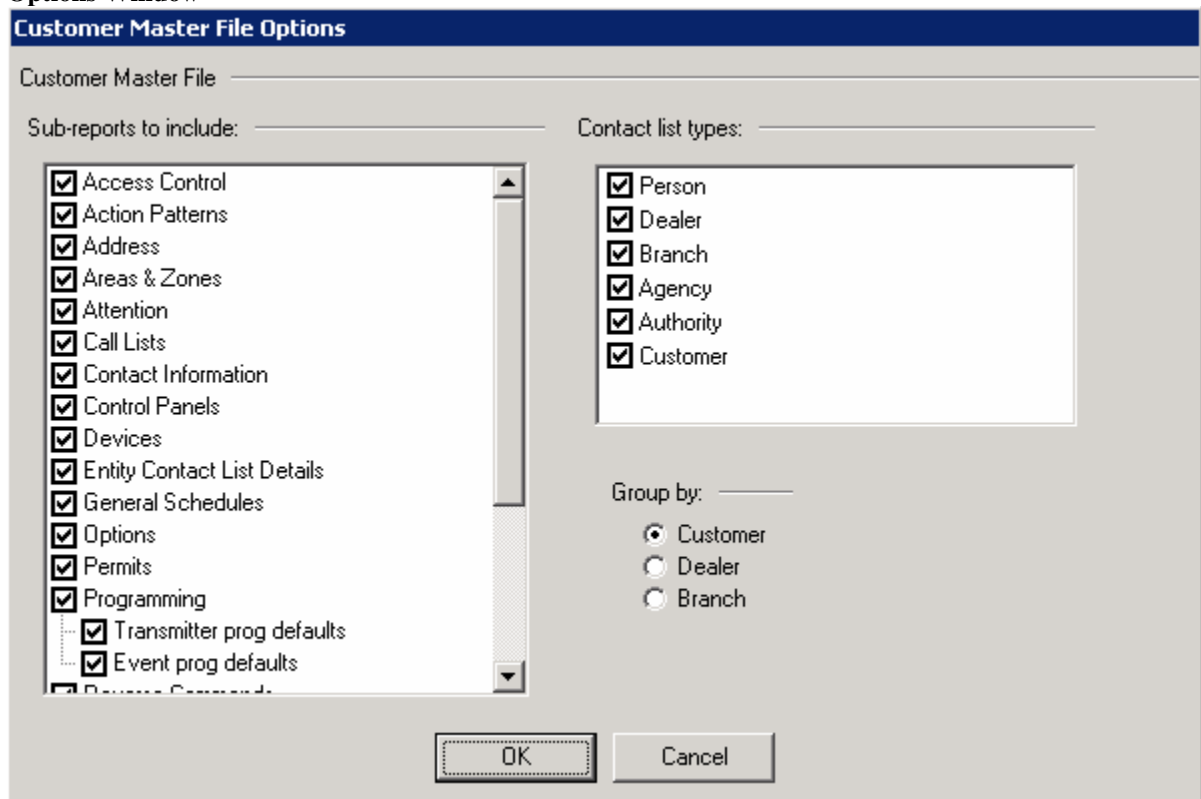
- **Suppress Passwords** – This will change the passwords printed in this report to asterisks.
- **Mail Format** – This will output the reports in a format that is ready for folding and placing in window envelopes. This option is not enabled unless the Page Breaks option is unchecked. Mailing format assumes page breaks therefore there is no need for the additional checkbox.
- **Page Breaks** – This checkbox will force page breaks between the group by options.

Advanced Search Options

Clicking on the Advanced button or the Options button at the bottom right corner of the screen will bring up additional search options.

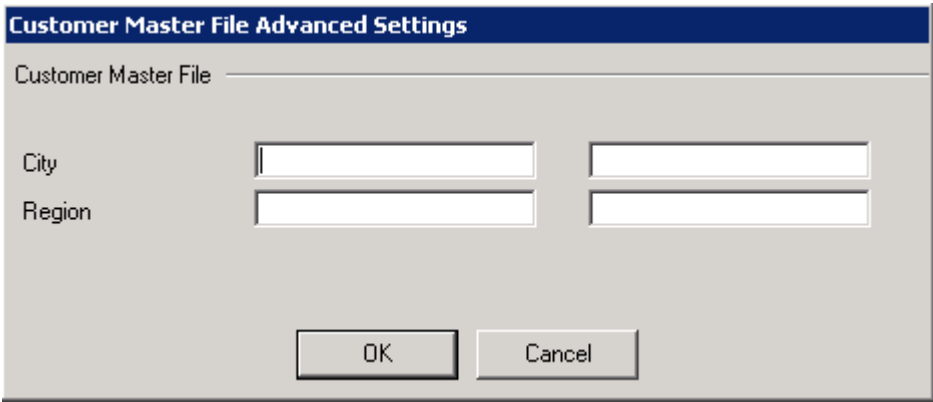
The Options window allows for the selection or de-selection of sub-reports and contact lists to further narrow or expand the report results. Once the search parameters are set, click Next to continue running the report.

Options Window



The Advanced window allows users to entire search criteria pertaining to a specific city or region in which certain customers reside.

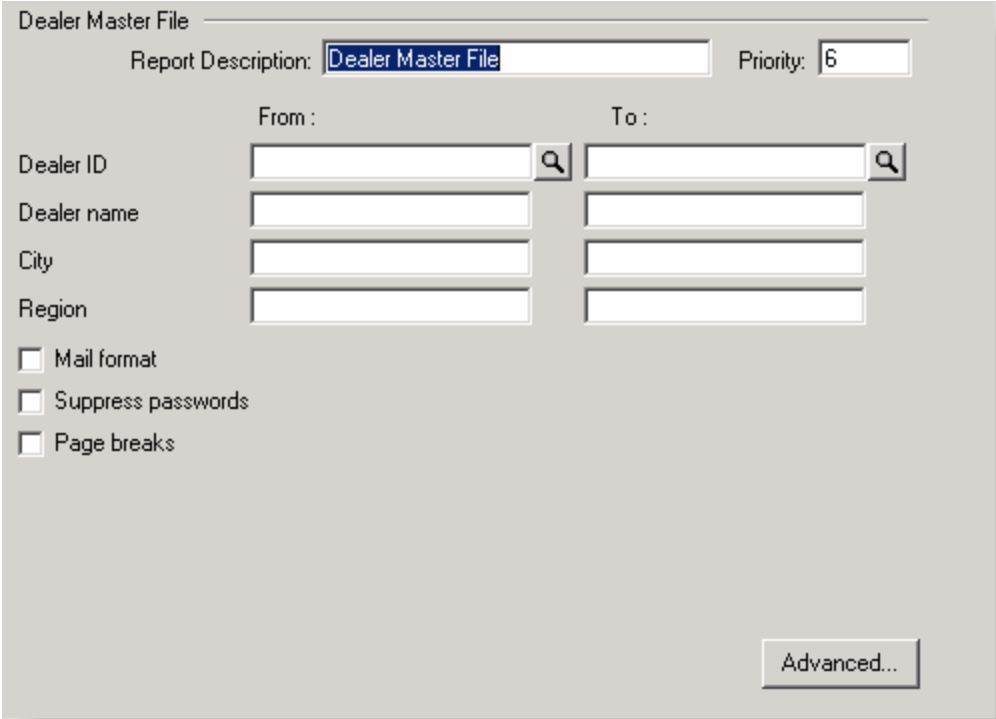
Advanced Window



The dialog box has a title bar that reads "Customer Master File Advanced Settings". Below the title bar, the text "Customer Master File" is displayed. There are four input fields arranged in a 2x2 grid. The top row contains two fields labeled "City", and the bottom row contains two fields labeled "Region". At the bottom of the dialog, there are two buttons: "OK" and "Cancel".

Dealer Master File

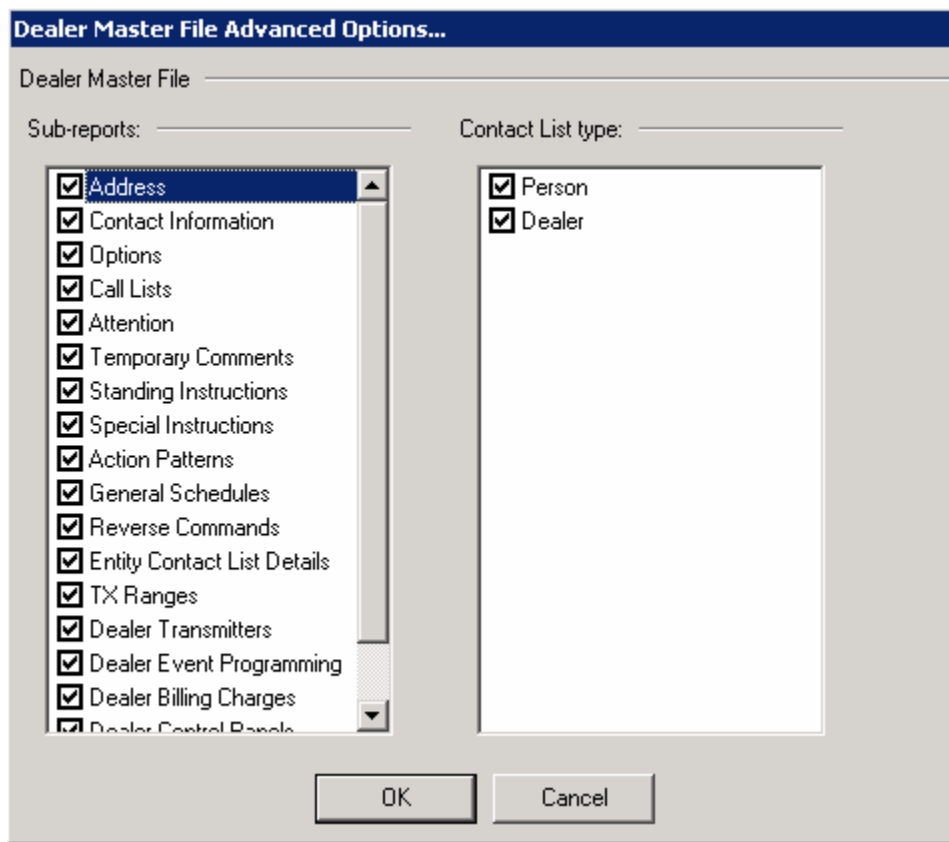
The **Dealer Master File** report allows the ability to generate a hard copy of the Dealer account information. The Dealer Master File report will only contain the Dealer specific information.



The dialog box has a title bar that reads "Dealer Master File". At the top, there is a "Report Description:" field containing the text "Dealer Master File" and a "Priority:" field containing the number "6". Below this, there are two columns of input fields labeled "From :" and "To :". The "From :" column has four fields for "Dealer ID", "Dealer name", "City", and "Region", each with a search icon to its right. The "To :" column has four empty fields. At the bottom left, there are three unchecked checkboxes: "Mail format", "Suppress passwords", and "Page breaks". At the bottom right, there is an "Advanced..." button.

Advanced Search Options

Clicking on the Advanced button at the bottom right corner of the screen will bring up additional search options:



DNIS Maps

DNIS stands for Dialed Number Identification Service. The DNIS report will display mappings used within the system at this time.

DNIS Maps

Report Description: Priority:

From : To :

Monitoring Group

Dealer ID

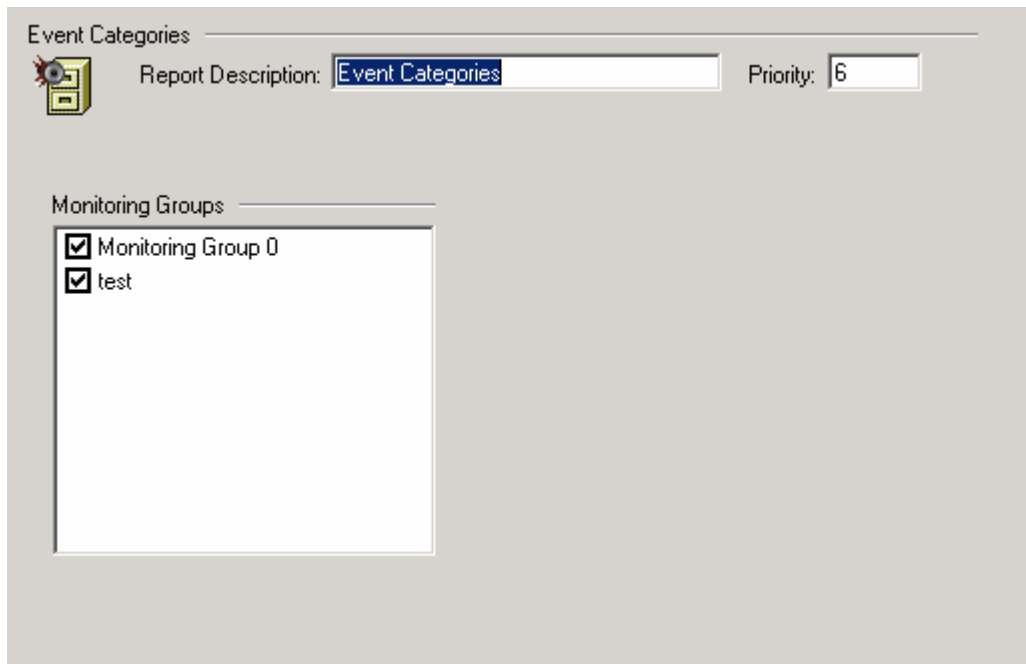
Rec. Line Prefix:

- 00 - default
- 01 - Dealer Accounts
- 02 - sfadfdssfd01
- 03 - New Prefix01
- 04 - RLD 04
- 06 - RLD - 06
- 07 - RLD 07
- 83 - RLD - 83
- H1 - RLD H1
- H2 - RLD H2
- H3 - RLD H3
- HAWK - Hawk
- OZ - OzVision
- UP - uplink

Users may search by Receiver Line Prefix, Monitoring Group, or Dealer ID. Once the search parameters are set, click Next to continue running the report.

Event Categories

The **Event Categories** report allows for narrowing of event category data. If there are Event Categories specified for a single Monitoring Group, this information will also be listed. The default results show all the Event Categories for all Monitoring Groups. The only filtering possible for this report is based on the Monitoring Groups. All Event Categories for this report will always print every time. The only restriction will be based on the Monitoring Group.



The screenshot shows a window titled "Event Categories" with a yellow icon of a computer monitor. Below the title bar, there is a "Report Description:" label followed by a text input field containing "Event Categories" and a "Priority:" label followed by a text input field containing "6". Below this, there is a "Monitoring Groups" section with a list box containing two items: "Monitoring Group 0" and "test", both with checked checkboxes.

Event Codes

The Event Codes report will list the Event codes and their details. This could potentially be a very large report when run on the defaults, so it is recommended to narrow the results by select specific search criteria.

The screenshot shows a software dialog box titled "Event Codes". At the top left is a key icon. The "Report Description" field contains "Event Codes" and the "Priority" field contains "6". Below this are three main sections:

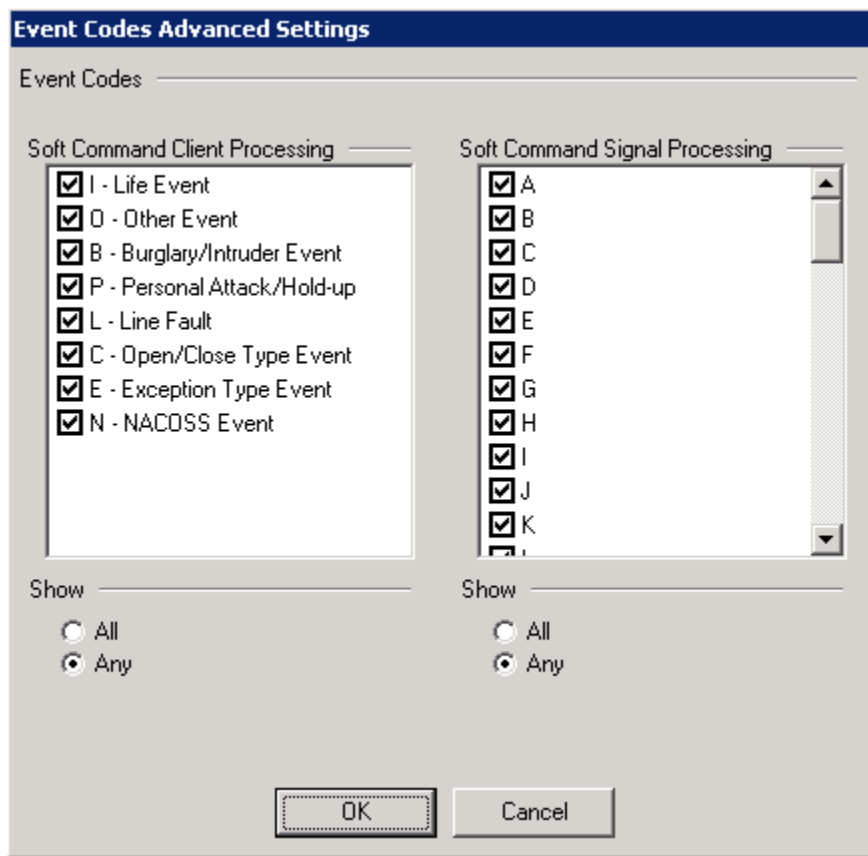
- Event Categories:** A list box with checkboxes for "Access Alarms", "Burglary", "Emergency", "Environmental Alarms", "Fire Alarm", "General Alarms", "Holdup / Personal Attack", and "Medical Alarms". All are checked.
- Default Action Patterns:** A list box with checkboxes for "G1 - Global 1" through "G7 - Global 7". All are checked.
- Is event alarm?:** Radio buttons for "Both" (selected), "Alarm Events", and "Non-Alarm Events".
- Include:** Radio buttons for "Summary" (selected) and "Detailed".
- Order By:** Radio buttons for "Event Category" (selected), "Event Code", "Default Action", "Priority", "Is event alarm", "Soft command client processing", and "Soft command signal processing".

An "Advanced..." button is located at the bottom right of the dialog.

Users can narrow search results by selecting or de-selecting specific Event Categories (such as Burglary, Fire Alarm, etc.) The report may be ordered by certain criteria as well.

Advanced Search Options


Clicking on the Advanced button at the bottom right corner of the screen will bring up additional search options:



When using the advanced option to narrow the search by Event Code (alarm type), it is possible to select one or several event codes to get the results requested. Once the search parameters are set, click Next to continue running the report.

Event Maps

The **Event Maps** report shows the relationship of how a signal arrives into automation and how Manitou translates it. This information will show where it is not necessary to program signals that Manitou already knows how to translate.

Event Maps 

Report Description: Priority:

From : To :

Dealer ID

Protocol Type: _____ Group By: _____

- ACID - Ademco Contact ID
- FBI - FBI Superfast
- ISI - ISI
- MANUAL - Manual
- MORSE - Morse
- OZVISION - Ozvision
- RAD6600 - Radionics 66...
- RSIFGI - RSI Frontel GI
- SAFECOM - Safecom
- SIA - SIA
- VERTX - Vertx Event Map

Protocol
 Installer

Global Holidays

The **Global Holiday** report lists the entered global holidays listed within the Manitou system by country. Users may simply select which countries they wish to view global holidays, as well as the format (Month, Day or Day, Month) in which the report will format the report results.

Global Holidays

Report Description: Priority:

Country

- United States of America
- Canada
- United Kingdom
- Mexico

Format:

Month, Day
 Day, Month

Global Keyholder Master File

The Global Keyholder report lists the Keyholders that have Contact ID's tied to their information. It is best to run the report without parameters to produce the best results. The report may be customized to display as little or as much information as necessary.

Global Keyholder Master File

Report Description: Priority:

From : To :

Keyholder ID

Keyholder name

City

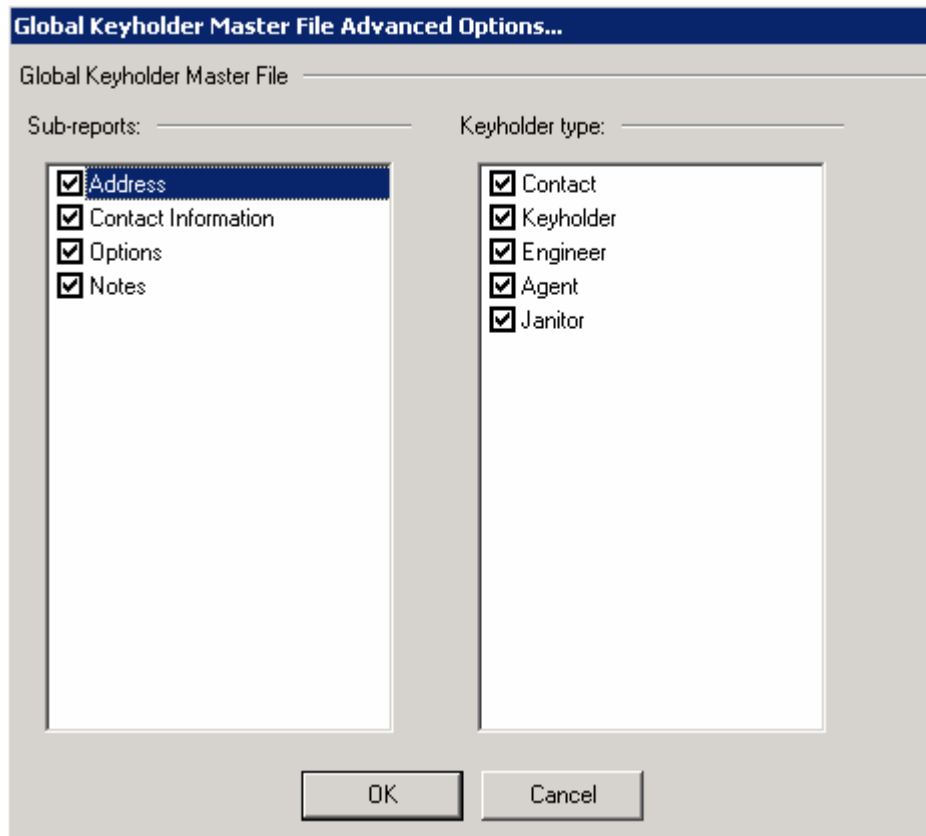
Region

Password

Mail format
 Suppress passwords
 Page breaks

Advanced Search Options

Clicking on the Advanced button at the bottom right corner of the screen will bring up additional search options:

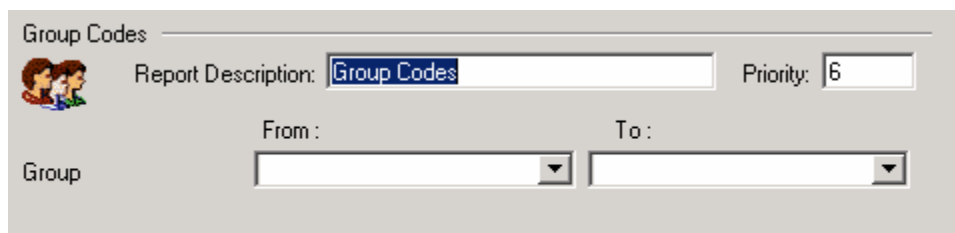


The dialog box is titled "Global Keyholder Master File Advanced Options...". It contains two columns of options, each with a checked checkbox. The left column is labeled "Sub-reports:" and includes "Address", "Contact Information", "Options", and "Notes". The right column is labeled "Keyholder type:" and includes "Contact", "Keyholder", "Engineer", "Agent", and "Janitor". At the bottom of the dialog are "OK" and "Cancel" buttons.

The Options window allows for the selection or de-selection of sub-reports and keyholder types to further narrow or expand the report results. Once the search parameters are set, click Next to continue running the report.

Group Codes

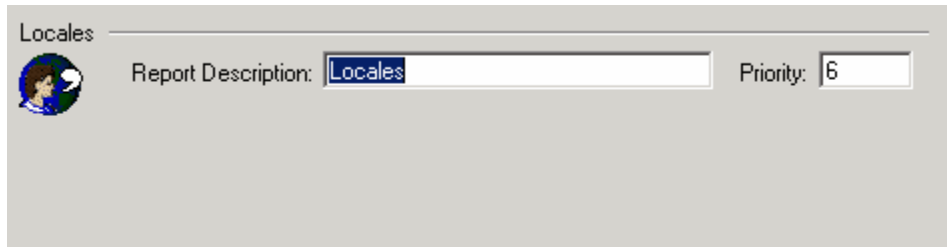
The **Group Codes** report lists the Group Codes for the Manitou System. Group Codes are used to categorize customer accounts. These are very similar to Class Codes; however, reporting and dealer billing is designed for class codes. Select the appropriate Group Code from the drop-down menu and click Next to continue running the report.



The dialog box is titled "Group Codes" and features a small icon of two people. It includes a "Report Description:" field with "Group Codes" entered, a "Priority:" field with "6" entered, and two "From:" and "To:" drop-down menus. The "Group" label is positioned to the left of the "From:" and "To:" fields.

Locales

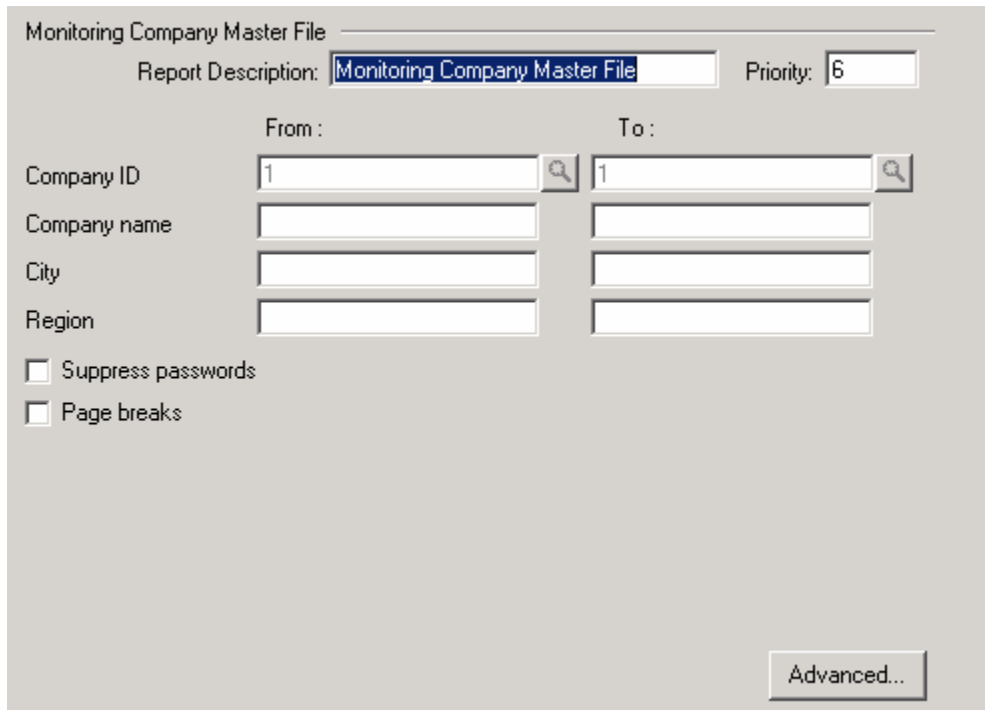
The **Locales** (also known as Languages) report produces a listing of the languages within the system. This report does not require any user-entered data. To continue running the report, click Next.



The screenshot shows a dialog box titled "Locales". On the left is a small globe icon. To its right is the text "Report Description:" followed by a text input field containing the word "Locales". Further right is the text "Priority:" followed by a text input field containing the number "6".

Monitoring Company Master File

Like the Customer Master File, the **Monitoring Company Master File** report produces details of the Monitoring Company record. Users may adjust the report parameters to view as much or as little of the customer information as desired. The report is designed to have a reference if the customer data was lost and it was necessary to enter the data back into Manitou.



The screenshot shows a dialog box titled "Monitoring Company Master File". At the top, it has "Report Description:" with a text input field containing "Monitoring Company Master File" and "Priority:" with a text input field containing "6". Below this, there are two columns of input fields labeled "From:" and "To:". The "From:" column has a "Company ID" field with the value "1" and a search icon, followed by empty fields for "Company name", "City", and "Region". The "To:" column has a "Company ID" field with the value "1" and a search icon, followed by empty fields for "Company name", "City", and "Region". At the bottom left, there are two checkboxes: "Suppress passwords" and "Page breaks", both of which are unchecked. At the bottom right, there is a button labeled "Advanced...".

Advanced Search Options

Clicking on the Advanced button at the bottom right corner of the screen will bring up additional search options:

Company Master File Advanced Options...

Company Master File

Sub-reports: Address
 Contact Information
 Options
 Call Lists
 Attention
 Temporary Comments
 Standing Instructions
 Special Instructions
 Action Patterns
 General Schedules
 Reverse Commands

Contact List type: Person

OK Cancel

The Options window allows for the selection or de-selection of sub-reports and Contact List types to further narrow or expand the report results. Once the search parameters are set, click Next to continue running the report.

Monitoring Groups

The **Monitoring Groups** report will display a list of all current Monitoring Groups.

Monitoring Groups

Report Description: Monitoring Groups Priority: 6

This report doesn't require any user-entered criteria.
Click the 'Next' button below to select your distribution.

Since this report does not require any user-entered criteria, simply click Next to begin running the report.

Monitoring Types

The **Monitoring Types** report will display a list of current Monitoring Types in Manitou.

The screenshot shows the 'Monitoring Types' configuration window. It has three main sections:

- Monitoring Types:** A 'Report Description' field containing 'Monitoring Types' and a 'Priority' field containing '6'.
- Customer Types:** A list of four checked items: 'Any Customer Type', 'Residential', 'Commercial', and 'UL - Burg'.
- Monitoring Level and Attributes:** A list of checked items: 'Customer' (with sub-items 'Report Service', 'Rotating Call List', 'UL Service', and 'Other'), 'System' (with sub-items 'GPS/Location Monitoring' and 'Event Monitoring'), 'Include Billing Detail', and 'Include Limit Quantities'.

Users have the option to select customer type (residential, customer, etc.) and monitoring levels, such as customer, system, transmitter, etc. Once the parameters have been entered, click Next to begin running the report.

Output Device Types

The **Output Device Types** report provides a list of all Output Devices currently configured in the Manitou system. The report includes the Attribute, Device Type (such as a numeric pager), protocol, rows, columns, scripts, whether the text is wrapped, pager entry and service codes associated with each differing Device Type.

Output Device Types

Report Description: Priority:

Attributes

- Phone
- Fax
- Pager
- Email Address
- Web Address
- Retransmission

Type

- Numeric Pager
- Alpha Pager
- SMS Phone
- Fax
- E-Mail
- Printer
- Retransmission

Protocol

- TAP
- DTMF
- SMS
- Fax
- MAPI
- Text

Group by:

- None
- Attribute
- Type
- Protocol

Users may choose to filter the report by differing attributes, such as phone, fax, or e-mail, as well as types and protocols. The report results can be grouped by attributes, types and protocols. Once the search parameters have been set, click Next to continue running the report.

Permit Types

The **Permit Types** report provides a list all permits for certain countries. For example, if a permit types report is run on the United States, Police, Fire, and Medical permit types will be displayed in the report.

Permit Types

Report Description: Priority:

Country

- United States of America
- Canada
- United Kingdom
- England
- Mexico

Authority Type

- Police
- Fire
- Medical

Permit Type

- General
- (Police) Intruder
- (Police) PA
- (Police) Line Fault
- Other

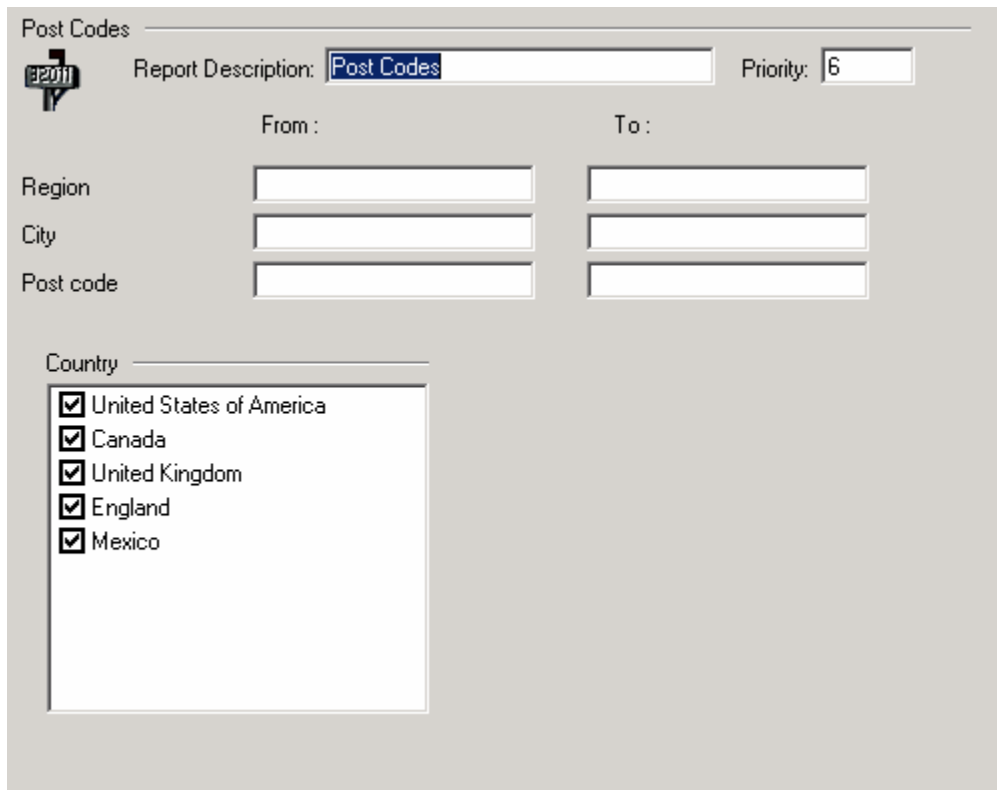
Group by:

- Country
- Authority Type
- Permit Type

Users may choose to limit the search by country, authority type or permit type. The report may be grouped by country, authority type or permit type as well. Once the search parameters are set, click Next to continue running the report.

Post Codes

The **Post Codes** report simply lists all post codes (or zip codes) within a certain region, city or post code. For example, entering the city "Colorado Springs" into the City field will bring up a list of all post codes currently entered into the Manitou system for the city of Colorado Springs.

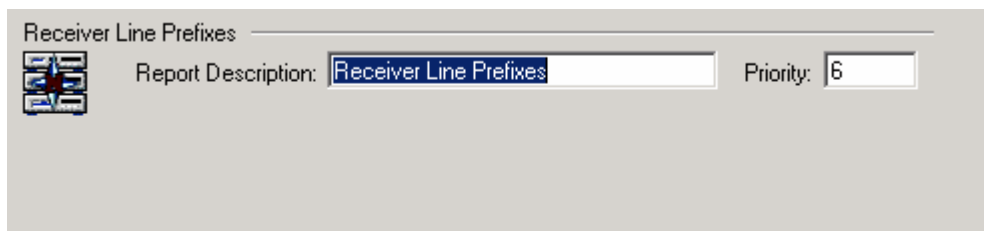


The screenshot shows a software window titled "Post Codes". At the top left is a small icon of a map of the United States. To its right is a "Report Description:" field containing the text "Post Codes". Further right is a "Priority:" field containing the number "6". Below these are two columns of input fields labeled "From:" and "To:". Under the "From:" column are three empty text boxes labeled "Region", "City", and "Post code". Under the "To:" column are three empty text boxes. Below the "To:" fields is a "Country" section with a list of countries, each preceded by a checked checkbox: "United States of America", "Canada", "United Kingdom", "England", and "Mexico".

Users may limit the report to a certain country. Once the search parameters have been set, click Next to continue running the report.

Receiver Line Prefixes

The Receiver Line Prefixes report lists all Receiver Line Prefixes currently configured in the Manitou system.



The screenshot shows a software window titled "Receiver Line Prefixes". At the top left is a small icon of a globe. To its right is a "Report Description:" field containing the text "Receiver Line Prefixes". Further right is a "Priority:" field containing the number "6".

This report does not require any user-entered information. To continue running the report, click Next.

Receiver Types

The **Receiver Types report** provides a list of all Receiver Types currently configured in the Manitou system.

Receiver Types

Report Description: Priority:

This report does not require any user-entered information. To continue running the report, click Next.

Receivers

The **Receivers** report provides a detailed list of configuration criteria of each type of Receiver for each FEP. The report includes the Receiver number, code, Receiver description, type, Port, Settings, Default Line Prefix, Default Monitoring Group, Line Prefix and Transmitter ID.

Receivers

Report Description: Priority:

Receiver number

FEPs:

- 1 - FEP
- 2 - FEP copy

Receiver code:

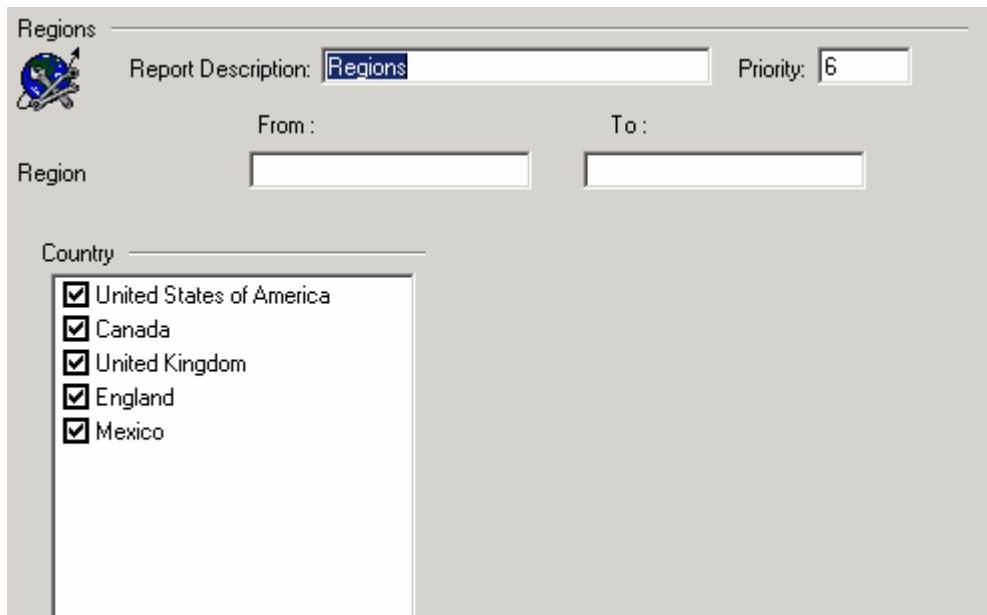
- SK9800
- BOLDIP
- DMP
- OH2000
- MLR2000
- OHQUICKALERT

Show receiver line map

Users may choose to limit the report to one specific FEP or a particular Receiver code. Once the search parameters have been set, click Next to continue running the report.

Regions

The **Regions** report provides a list of all regions and abbreviations currently in the Manitou system.

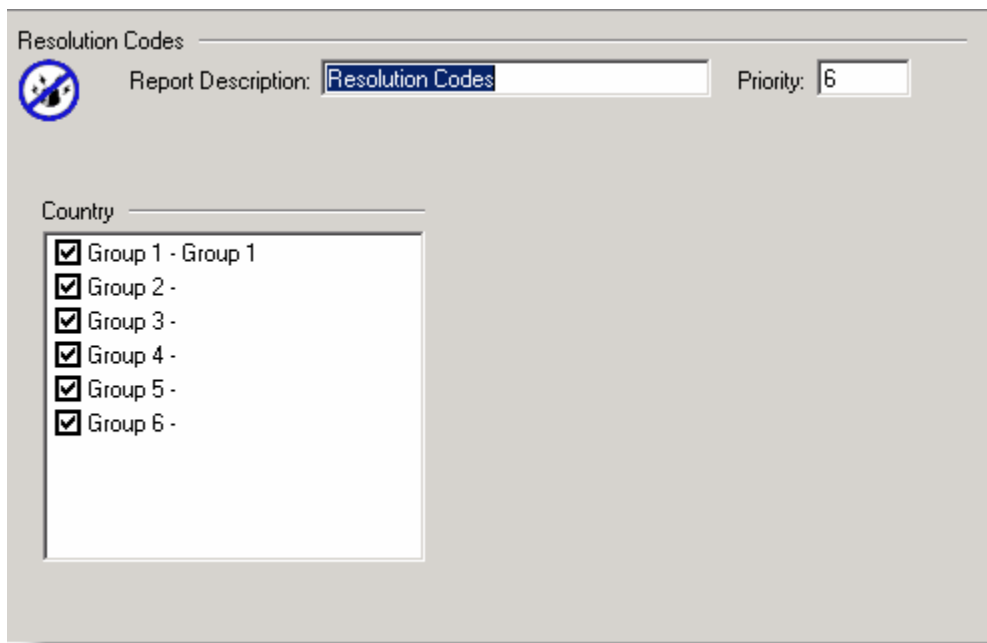


The 'Regions' report configuration window features a globe icon with a cursor. It includes a 'Report Description' field containing 'Regions' and a 'Priority' field set to '6'. Below these are 'From' and 'To' date selection fields. A 'Country' section contains a list of countries with checked selection boxes: United States of America, Canada, United Kingdom, England, and Mexico.

Users may choose to enter a specific region or limit the report to a particular country. Once the search parameters have been met, click Next to continue running the report.

Resolution Codes

The **Resolution Codes** report lists all resolution codes for a particular Country or "group." The report details the two-letter code, a description of the code and the alarm condition. Users may wish to use this report as a listing of alarms or signals closed with a specific resolution code, such as false alarms.



The 'Resolution Codes' report configuration window features a 'no alarm' icon. It includes a 'Report Description' field containing 'Resolution Codes' and a 'Priority' field set to '6'. Below these are 'From' and 'To' date selection fields. A 'Country' section contains a list of groups with checked selection boxes: Group 1 - Group 1, Group 2 -, Group 3 -, Group 4 -, Group 5 -, and Group 6 -.

Once the search parameters have been met, click Next to continue running the report.

Reverse Channel Routes

The **Reverse Channel Routes** report displays a list of all Protocols currently configured in the Manitou system, as well as description of the protocol, Application Type, Receiver Line Prefix, if the Reverse Channel is associated with a Dealer, the FEP Number, Receiver Number, Line number and Receiver Code.

Reverse Channel Routes

Report Description: Priority:

From : To :

Dealer ID

Receiver Line Prefix	Application Type	Protocol
<input checked="" type="checkbox"/> 00 - default	<input checked="" type="checkbox"/> Broker	<input checked="" type="checkbox"/> 1 - Red Care
<input checked="" type="checkbox"/> 01 - Dealer Acc...	<input checked="" type="checkbox"/> Sentry	<input checked="" type="checkbox"/> 2 - MonTech
<input checked="" type="checkbox"/> 02 - sfadfdssfd01	<input checked="" type="checkbox"/> Marshaller	<input checked="" type="checkbox"/> 3 - Director
<input checked="" type="checkbox"/> 03 - New Prefix01	<input checked="" type="checkbox"/> Application Server	<input checked="" type="checkbox"/> 4 - BT ADACS
<input checked="" type="checkbox"/> 04 - RLD 04	<input checked="" type="checkbox"/> Report Server	<input checked="" type="checkbox"/> 5 - HID Access ...
<input checked="" type="checkbox"/> 06 - RLD - 06	<input checked="" type="checkbox"/> Publisher	<input checked="" type="checkbox"/> 8 - RedCare NGr
<input checked="" type="checkbox"/> 07 - RLD 07	<input checked="" type="checkbox"/> Signal Handler	<input checked="" type="checkbox"/> 9 - RSI Frontel GI
<input checked="" type="checkbox"/> 83 - RLD - 83	<input checked="" type="checkbox"/> Logger	<input checked="" type="checkbox"/> 100 - AdPro Fas...
<input checked="" type="checkbox"/> H1 - RLD H1	<input checked="" type="checkbox"/> VRT	
<input checked="" type="checkbox"/> H2 - RLD H2	<input checked="" type="checkbox"/> Dispatcher	
<input checked="" type="checkbox"/> H3 - RLD H3	<input checked="" type="checkbox"/> FEP	
<input checked="" type="checkbox"/> HAWK - Hawk	<input checked="" type="checkbox"/> Auto-Client	
<input checked="" type="checkbox"/> OZ - OzVision	<input checked="" type="checkbox"/> Database Server	
<input checked="" type="checkbox"/> UP - uplink	<input checked="" type="checkbox"/> Standby Databa...	
	<input checked="" type="checkbox"/> Replication Dat...	
	<input checked="" type="checkbox"/> Monitor	
	<input checked="" type="checkbox"/> Broker Test	
	<input checked="" type="checkbox"/> Report Scheduler	
	<input checked="" type="checkbox"/> Watchdog	
	<input checked="" type="checkbox"/> Overdue Checker	

Users may choose to filter the search results by Receiver Line Prefix, Application Type, or Protocol, as well as Dealer Id. Once the search parameters have been met, click Next to continue running the report.

Script Messages

The **Script Messages report** provides a report of all current script messages entered into the Manitou System. The report includes details on the script message name, the type of script message (such as e-mail), and the text of the script message.

The 'Script Messages' dialog box features a title bar with a printer icon and the text 'Script Messages'. Below the title bar, there is a 'Report Description' field containing 'Script Messages' and a 'Priority' field containing '6'. The main area is divided into two sections: 'Locale' and 'Script Message Type'. The 'Locale' section contains a list of five items, each with a checked checkbox: Canada, UK, Mexico, Canadian English, and English (United States). The 'Script Message Type' section contains a list of four items, each with a checked checkbox: Generic, Pager, Fax, and E-Mail.

Users may filter the search results by either Locale or Script Message Type. Once the search parameters have been met, click Next to continue running the report.

Service Provider Device Types

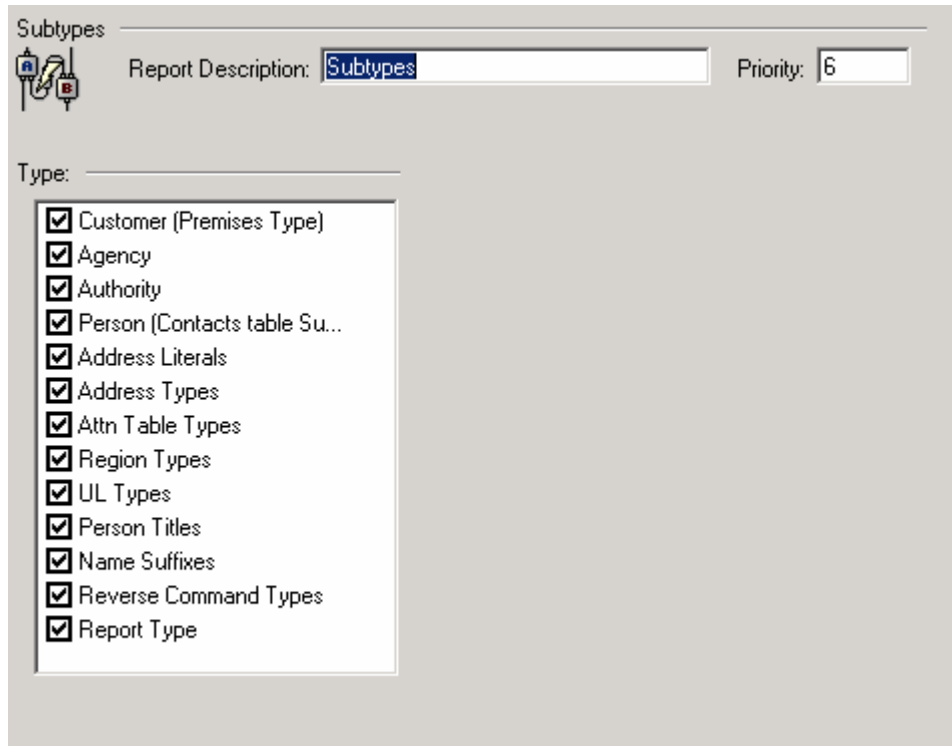
The **Service Provider Types** report gives a detailed list of all Service Provider Types currently configured in the system. The report includes the Protocol Type (such as TAP), address, ID, account name/password, if the protocol is dialup, timeouts, values and port settings.

The 'Service Provider Device Types' dialog box features a title bar with a printer icon and the text 'Service Provider Device Types'. Below the title bar, there is a 'Report Description' field containing 'Service Provider Device Types' and a 'Priority' field containing '6'. The main area contains a 'Protocol' section with a list of six items, each with a checked checkbox: TAP, DTMF, SMS, Fax, MAPI, and Text.

Users may limit the report to a specific Protocol type. Once the search parameters have been met, click Next to continue running the report.

Subtypes

The **Subtypes report** provides a detailed list of all subtypes currently configured in the Manitou system. The report lists the Type (such as Agency) and the Subtypes and Description.



Users may filter the search report by Types. Once the search parameters have been met, click Next to continue running the report.

Temporary Comments

The **Temporary Comments** report lists the temporary comments listed in customer's records. The temporary comments in a customer record display to Operators upon loading an alarm for that customer. Users may want to utilize this report in order to see vital comments, such as a customer vacationing during a specific time period, or other special instructions regarding an account.

Temporary Comments

Report Description: Priority:

From: To:

Customer ID

Name

Dealer ID

Branch ID

Group

Class

Include comment details

Date range: Order by: Contract type:

Selected dates Valid To Date
 Non-expired Contact ID
 Expired Name

Company
 Customer
 Dealer
 Branch
 Agency
 Authority

Users may enter any search criteria for a customer, such as Customer ID or the name of the customer. Typically, including the comment details in the report will be warranted. Once the search parameters are set, click the Next button to continue running the report.

Time Zones

The Time Zones report provides a list of all Time Zones currently entered in the Manitou system.

Timezones

Report Description: Priority:

This report requires no user-entered criteria. Click Next to continue running the report.

Transmitter Protocol Formats

The **Transmitter Protocol Format** report provides a list of all Transmitter Protocol Formats currently configured in the Manitou system. The report includes the transmitter type, signal

type, condition picture as well as other area and zone details.

Transmitter Protocol Formats

Report Description: Priority:

From : To :

Protocol Type

Type:

- Event Type
- Channel Based
- Modem2 Hex to SIA
- Modem2 Hex to Radionics

Users may filter the search by Protocol or by Type. Once the search parameters are set, click the Next button to continue running the report.

Transmitter Types

The **Transmitter Types report** provides a list of all Transmitter Types currently entered into the Manitou system. Users may choose to filter the report by Transmitter Type or Reverse Command Protocol. The report also has the option to include programming in the report details.

Transmitter Types

Report Description: Priority:

From : To :

Transmitter Type

Reverse Command Protocol:

- None
- RedCare
- MonTech
- BT Director
- BT ADACS

Include programming

Once the search parameters have been set, click Next to continue running the report.

User Groups

The **User Groups report** provides details pertaining to all User Groups currently entered in the Manitou system. The report lists the name of the User Group, maximum activity, accounting user ID as well as the call types accepted by the User Group, such as cancel alarm, confirm alarm or schedule change.

The screenshot shows the 'User Groups' report configuration window. At the top, there is a 'Report Description' field containing 'User Groups' and a 'Priority' field set to '6'. Below these are 'From' and 'To' fields for date selection. Further down are 'Dealer ID' and 'Branch ID' fields, each with a search icon. The 'User Group' section features a list of user groups with checkboxes: System, Administrator, Supervisor, Operator, Data Entry, Trainee, Dealer, and test. To the right of this list is a 'Group By' section with radio buttons for 'None', 'Dealer', and 'Branch'.

Users may filter the search criteria by Dealer or Branch ID, as well as User Group. Once the search parameters have been met, click Next to continue running the report.

Users

The **Users report** provides details pertaining to all Users currently entered in the Manitou system. The report includes details on User ID, Name, Contact Point, Locale, Country, Profile, Password changes, Alarm Queue accessibility and Accounting access.

Users

Report Description: Priority:

From : To :

Dealer ID

Branch ID

User Group

- System
- Administrator
- Supervisor
- Operator
- Data Entry
- Trainee
- Dealer

Locale

- Canada
- UK
- England
- Canadian English
- English (United States)

Group By

- User Group
- Locale
- Dealer
- Branch

Users may filter the search results by Dealer or Branch ID, User Group or Locale. Once the search parameters have been set, click Next to continue running the report.

Window Codes

The **Window Codes report** lists all Schedule Window Codes currently entered into the Manitou system. The report will list the code, description and minutes before/after.

Window Codes

Report Description: Priority:

From : To :

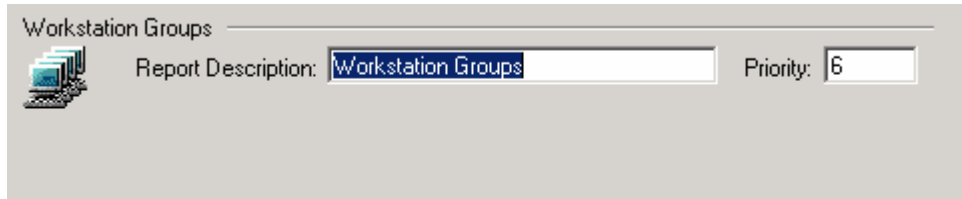
Window Code

Users may choose to leave the search parameters blank to list all window codes in the system. Once the search parameters have been set, click Next to continue running the report.

Workstation Groups

The **Workstation Groups report** lists all workstation groups currently entered into the Manitou system. This report requires no user-entered data. Click next to continue running the

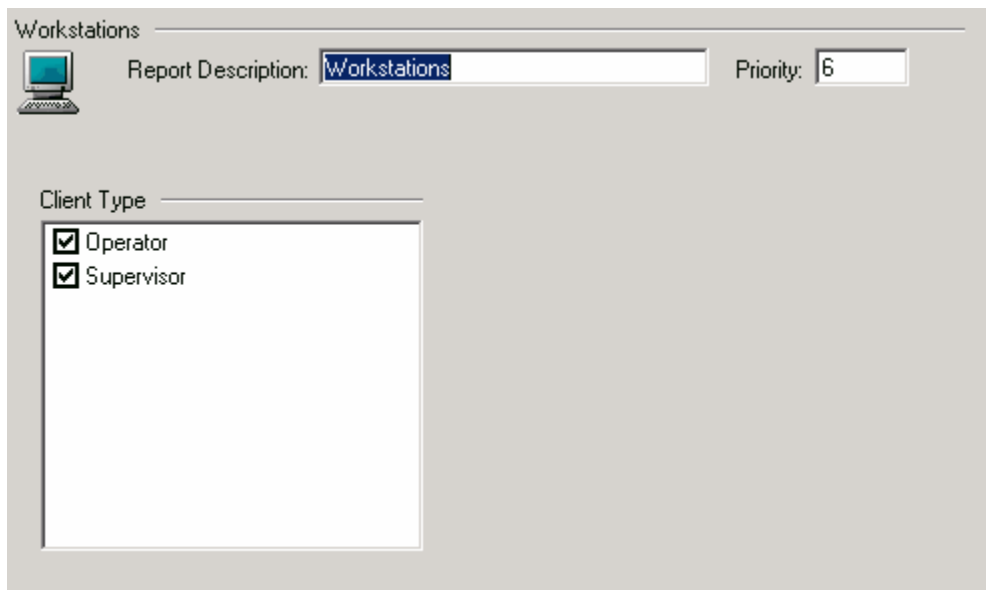
report.



The screenshot shows a window titled "Workstation Groups". On the left is an icon of a computer monitor. To the right of the icon is a text input field labeled "Report Description:" containing the text "Workstation Groups". Further right is a "Priority:" label followed by a text input field containing the number "6".

Workstations

The **Workstations report** provides a list of all workstations currently entered into the Manitou system. The report includes details on a specific workstation, such as which workstation is associated with a Manitou client, the description, security level, when the workstation was last active, monitoring group, attributes, locale and time zone.



The screenshot shows a window titled "Workstations". On the left is an icon of a computer monitor. To the right of the icon is a text input field labeled "Report Description:" containing the text "Workstations". Further right is a "Priority:" label followed by a text input field containing the number "6". Below this is a section titled "Client Type" with a list box containing two items: "Operator" and "Supervisor", both of which have their respective checkboxes checked.


Users may filter the report by Client type - either Operator or Supervisor Workstation. Once the search parameters have been set, click Next to continue running the report.

System Reports

The **System Reports** section contains reports related directly to information stored within the Manitou system.

Customer Count

The **Customer Count** report lists customer status for all customers in the system. It can be grouped by Dealer, Branch or Class Code and includes summaries. Users may choose to order the report by Customer ID or Customer Name.

Customer Count  Report Description: Priority:

From: To:

Customer ID

Customer name

Dealer ID

Branch ID

Group

Class wildcard Use wildcard for class

Class

Start date

Include details

Group By _____ Order By _____

None Customer ID

Dealer Customer Name

Class Code

Dealer/Class Code

Branch

Branch/Class Code

Customer Services

The **Customer Services** report will produce a list of all current monitored services, including pending, active, inactive and deactivated statuses. The report also has the option to only include services that are chargeable.

Customer Services

Report Description: Priority:

From: To:

Customer ID

Customer name

Dealer ID

Branch ID

Date

Include chargeable services only

Include customer details

Monitoring status Pending
 Inactive
 Active
 Deactivated

Group by: Customer
 Dealer
 Branch

Summary totals: None
 By service
 By charge code
 Both

Customer Status

The **Customer Status** report is a “bare bones” report which displays only the current status of the customer or customers for which the report is run. Users can run this report to also find the Out-of-Service status of customers. To get a proper on test report, leave all the options blank with the exception of the Customer Status section.

Customer Status

Report Description: Priority:

From: To:

Customer ID

Customer name

Dealer ID

Branch ID

Group

Class

Time zone

Include out-of-service

Include area status

Include monitoring status

Area status

Opened

Closed

Unknown

Monitoring status

Pending

Inactive

Active

Deactivated

UL Grade

Unassigned

CSBG

CSF

PRPF

PRPB

Customer Status Change

The **Customer Status Change** report lists all status changes in a specified date range. Data can be searched by Dealer, Branch, or Class. The Class search parameters are defined by Weekly Activity, Monthly Open Close activity, or Regular Account activity.

The details in this report lists all signal/alarm details, open and close activity and any exception activity (unexpected openings/closings, for example.)

Users can limit the search to a particular Operator, as well as activated, inactivated or deactivated customers in the system.

Dealer Billing

The **Dealer Billing** report calculates a Dealer's billing invoice based on his or her specific Dealer charges housed within the record. This report can only be specified by date range and can include either mail format or specific details.

False Alarm Summary

The **False Alarm Summary** report gives a listing of all false alarms received within a specific date range. Search parameters can be limited to Dealer, Branch or Authority ID and can be grouped by either Dealer or Branch.

Operator Time Cards

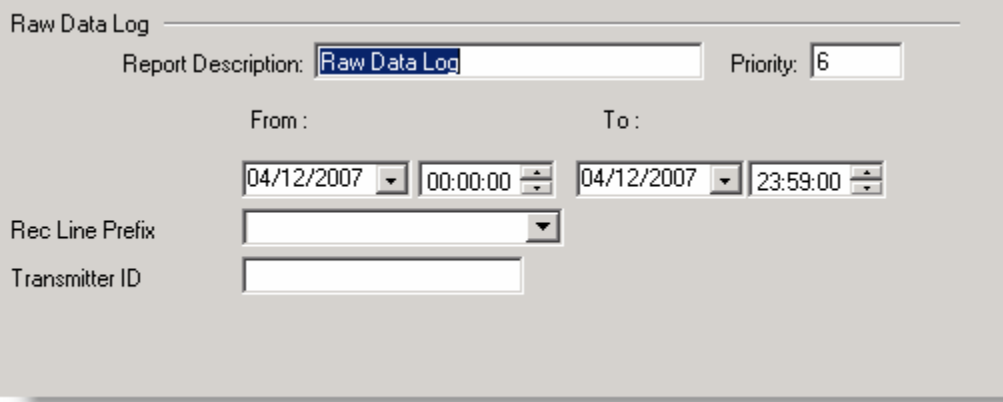
The **Operator Time Cards** report lists the times an Operator logs in and out of the Operator workstation. Search parameters are limited to searching by User ID, date and time.

On Test

The **On Test** report lists all systems that are recently, currently, or will be on test. Users can search by Customer ID/Name, Dealer, Branch, Group or Class.

Raw Data Log

The **Raw Data Log Report** displays details of all alarms and other signals received by Manitou from the alarm receivers connected to the system based on a specific date range. Users must specify a Receiver Line Prefix and/or a Transmitter ID. If no search parameters are specified, the report will not list any details.



The screenshot shows a software window titled "Raw Data Log". It contains several input fields for configuring a report:

- Report Description:** A text box containing "Raw Data Log".
- Priority:** A text box containing "6".
- From:** A date and time selection area with a date dropdown set to "04/12/2007" and a time spinner set to "00:00:00".
- To:** A date and time selection area with a date dropdown set to "04/12/2007" and a time spinner set to "23:59:00".
- Rec Line Prefix:** A dropdown menu.
- Transmitter ID:** A text box.

Once the search parameters have been set, click Next to continue running the report.

Receiver Line Loading

The **Receiver Line Loading** report lists either all or the selected receiver's limits, usage and availability. Limits refers to the UL specific guidelines for the number of opens or closes allowed on the particular receivers. Central Station managers and Operators should need to refer to their UL representative for more information.

Receiver Line Loading

Report Description: Priority:

Receiver line prefixes:

- 00 - default
- 01 - Dealer Accounts
- 02 - sfadfdssfd01
- 03 - New Prefix01
- 04 - RLD 04
- 06 - RLD - 06
- 07 - RLD 07
- 83 - RLD - 83
- H1 - RLD H1
- H2 - RLD H2
- H3 - RLD H3
- HAWK - Hawk
- OZ - OzVision
- UP - uplink

Once the search parameters have been set, click Next to continue running the report.

System Connection Status

The **System Connection Status** report lists the system status of customers under certain Dealers, Branches, Authorities, Groups or Classes. The report may also be run on just one customer without any additional search parameters.

The screenshot shows a window titled "System Connection Status". At the top, there is a "Report Description" field containing "System Connection Status" and a "Priority" field set to "6". Below this, there are two columns labeled "From:" and "To:". The "From:" column contains fields for Customer ID, Customer name, Dealer ID, Branch ID, Authority ID, Group, and Class, each with a search icon. The "To:" column contains corresponding fields for Customer ID, Dealer ID, Branch ID, Authority ID, Group, and Class, also with search icons. Below these are two rows of date and time pickers: "Start date" and "Expire date", each with a date and time field. At the bottom, there are two sections: "Include:" with radio buttons for "Enabled" (selected) and "Terminated"; and "Order by:" with radio buttons for "Customer ID" (selected) and "Date".

Users may choose to include either enabled or terminated systems, and may order the report by Customer ID or date. Once the search parameters are set, click Next to continue running the report.

System Log

The **System Log report** provides a detailed list of all logins and log-offs to the system, the category where a user made adjustments, qualifiers, event text.

The screenshot shows a window titled "System Log". At the top, there is a "Report Description" field containing "System Log" and a "Priority" field set to "6". Below this, there are two columns labeled "From:" and "To:". The "From:" column contains date and time pickers set to "04/27/2007" and "00:00:00". The "To:" column contains date and time pickers set to "04/27/2007" and "23:59:59". Below these are three dropdown menus: "Category", "Qualifier", and "User initials".

Users may filter the search criteria by category, qualifier or user initials, as well as a specific

date and time range. Click Next to continue running the report once the search parameters have been set.

Transmitter Count by Receiver

The **Transmitter Count by Receiver report** provides a list of all Receiver Types or Receiver Line prefixes based on FEPs or Receivers. The report includes details of FEP number, Receiver number, Receiver Type, Description, among other details.

Transmitter Count by Receiver

Report Description: Priority:

From : To :

FEP

Receiver

Receiver Types Rec Line Prefix

Ademco 685

Adpro Fast Scan III

AES 7701 in Admeco...

AES 7701 in Radioni...

BASE10

Bold IP Receiver

Bold XML

BT Di...

00 - default

01 - Dealer Accounts

02 - sfadfdssfd01

03 - New Prefix01

04 - RLD 04

06 - RLD - 06

07 - RLD 07

08 - RLD 08

Summary

None

By Line

By Receiver Line Prefix

Users may limit the search results to display only certain Receiver Types or Receiver Line Prefixes, as well as FEP numbers or Receiver numbers. Once the search parameters have been set, click Next to continue running the report.

Transmitter Count by Tx Type

The **Transmitter Count by TX Type** report lists all transmitters currently in the system by Transmitter Type. Users may limit the search to only include a specific Transmitter type, by Customer ID, Dealer Id or Branch ID. Users also have the option to include Customer Details in the report.

Transmitter Count by Tx Type

Report Description: Priority:

From :

Customer ID

Dealer ID

Branch ID

Include Customer Details

Transmitter type

- Default Transmitter Type
- DSC on ACID
- ITI Caretaker
- Red Care
- Radionics SIA
- SIA2
- sia3
- VertX V1000
- VertX V2000

Group by

- None
- Dealer
- Branch

Once the search parameters have been set, click Next to continue running the report.

Unused Transmitters

Unused Transmitters are transmitter numbers within a transmitter range, set up within the Dealer and Monitoring Company records, that are not yet assigned to a Transmitter on a Customer record.

User Statistics

The **User Statistics** report provides the details of each Operator's user session including the login and logout times, total session time, number of accounts edited, added and deleted, and the number of alarms handled of priorities 1-4 and 5-10. This information is mined from the User Status form found in the Supervisor Workstation.

Run a System Report

1. Select the desired report from the reports list.
2. Check the Priority level of the report. Manitou will use this number to determine which reports in the report queue to print first - the lower the number, the higher the priority. Unless urgent, this number should be set to 6.


3. Enter any relevant search criteria.
4. Click Next.
5. On the Distribution page, select the distribution method and destination for the report.

A number of options are available. Users can:

- View it on screen, using the preview facility.
- Print it locally (in the central station), with an option to preview first.
- Send it to a nominated customer or dealer, with an option to review first.
- Send it to any individual (whether on the system database or not) by email or fax, also with an option to preview.

Destination Window


Override or unlisted destination: _____

 Override recipient's name:

Override destination type:


Override destination address (Fax/Email):

Contact list destination: _____

 Default printer:

Contact list type:

Hold for preview



- Contacts
- Bill Fox
- Central Station
- Company (printer only)

The following sections detail printing, sending and previewing a report.


Print a System Report

1. After the desired report has been selected, click Next.
2. In the Contact List Destination area, select Printer from the drop-down Default Printer menu.
3. In the Contact List Type field, select Company
4. If the user wishes to preview the report on screen before printing, check the Hold for preview box.
5. Click Finish to queue the chosen report. The report will now be queued for publishing.


The screenshot displays a software interface for configuring report destinations. It is divided into several sections:

- Override or unlisted destination:** This section includes three input fields: "Override recipient's name:", "Override destination type:", and "Override destination address (Fax/Email):". An "Add to list" button is located to the right of the address field.
- Contact list destination:** This section is highlighted with a red border and contains:
 - Default printer:** A dropdown menu currently set to "Printer".
 - Contact list type:** A dropdown menu currently set to "Company".
 - Hold for preview:** An unchecked checkbox.
- Contacts List:** A tree view on the left shows a hierarchy: "Contacts" (with a folder icon) containing "Bill Fox", "Central Station", and "Company (printer only)". To the right of this list are four navigation buttons: ">", "<", ">>", and "<<".

Send a System Report to a Customer or Dealer

1. After the desired report has been selected, click Next.
2. In the Contact List Type field, select Customer or Dealer as appropriate.
3. In the Customer field, click the search button to the right of the field.
4. Type a * in the Customer or Dealer search field.
5. Select the customer or dealer from the results list by clicking Load.
6. Select the specific keyholder or contact from the left hand pane and then click the include
arrow .
7. If the user wishes to preview the report on screen before printing, check the Hold for
Preview box.
8. Click Finish to queue your chosen report. The report will now be queued for publishing.

Override or unlisted destination:



 Override recipient's name:

Override destination type:

Override email address:

Email attachment type:

Contact list destination:


 Default printer:

Contact list type:

Show suppressed contacts
 Hold for preview

Contacts

- Bill
- Printer
- Central Station
- Printer
- Company (printer only)

Kevin Smith - E-Mail (kevinsmith@movies.com) (PDF)

 Central Station - Printer ()

Send a System Report by Fax or E-mail

Utilizing this option will allow a report to be sent to a client who has not been entered into the Manitou database.

1. After the report has been selected, click Next.
2. In the Override Recipient's Name field, type the name of the recipient for the report.
3. In the Override Destination Type field, select either e-mail or fax.
4. In the Override Email Address or Override Fax Number field, enter the full e-mail address or fax number.
5. Click the "Add to list" button.
6. If the user wishes to preview the report on screen before printing, check the hold for preview box.

7. Finally, click Finish to queue the chosen report. The report will now be queued for publishing.

Send a System Report by Fax or E-mail Window

Override or unlisted destination:

Override recipient's name:

Override destination type:

Override destination address (Fax/Email):

Add to list

Contact list destination:

Default printer:

Contact list type:

Hold for preview

Contacts

- Bill Fox
- Central Station
- Company (printer only)

>

<

>>

<<

Back Finish

Preview a System Report

1. Select the desired report from the reports list.
2. Check the Priority level of the report. Manitou will use this number to determine which reports in the report queue to print first - the lower the number, the higher the priority. Unless urgent, this number should be set to 6.
3. Enter any relevant search criteria.
4. Click Next.
5. On the Distribution page, check the Hold for Preview button.
6. Click Next.
7. A warning message will now be displayed that the user has not chosen any recipients for your report. Click Yes to queue the report for previewing only.
8. Open the Report Queue.

9. Double-click on the Report to view the previewed report.

Report Queue

The **Report Queue** allows a user to view the current Manitou report queue or to search the queue by specific criteria (for example: date / time range or by system user name). Once a report is run, it is sent to the Report Queue to be viewed.

Report Queue interface showing filters and a table of Scheduled Reports.

Description	Interval	Interval Type	Report Name	Last Run	Next Run	User
Daily Signals	1	None (run once)	Daily Signals		03/16/2007 13:23:46	BT

The Report Queue can also be easily accessed from the Quick-Launch toolbar by clicking on the Report Queue button. 

Preview a Queued Report

To preview a report in the queue list, select the desired report by clicking on the report in the list and then clicking the Preview button. The selected report will now be displayed for viewing.

Note: Users may now edit this copy or print it locally. Changes made in the report viewer will not affect the report of the copy held in the queue.

View Reports for a Specific User

By default, only reports published or queued for preview by the current user will be displayed. To display reports queued for a specific user, type the user name into the 'User' field in the filter area of the workspace and then click the Filter button. Reports for the specific user will now be displayed in the report queue area.

To remove a filter you have applied, click "Remove Filter."

Filter the Queue by a Specific Date/Time

To view reports that have been queued for publishing at a specific date or time, but have not yet been published, specify the date range and times in the fields provided within the filter area. Users can also view reports according to how they will be published by checking or un-checking the following parameters:

- **Ad-Hoc** – reports that have been requested by system users on an "as required" basis.
- **Scheduled (run once)** – reports that have been pre-programmed to publish automatically at a specific time or date.
- **Scheduled (repeating)** – reports that have been pre-programmed to publish automatically at a certain time or day on a recurring basis.

When the required parameters have been selected, click the Filter button. Only reports that fully meet the selected criteria will now be displayed.

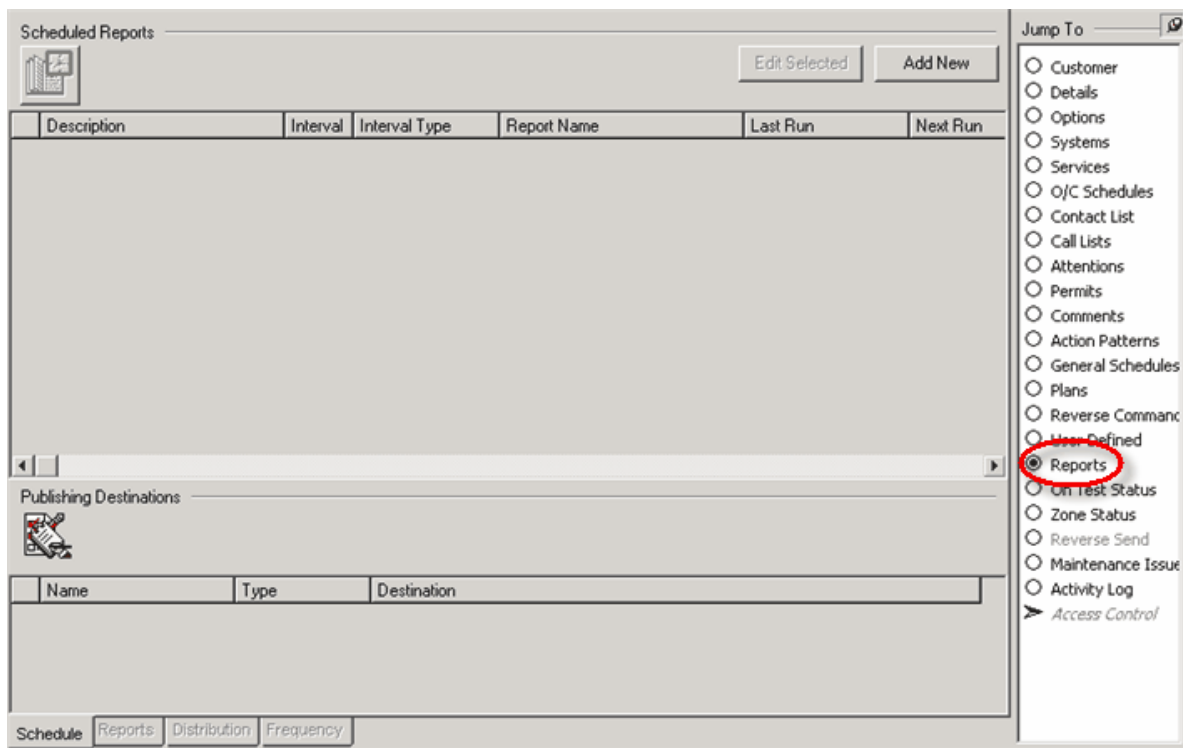
Show All Reports

Clicking on the **Show All** button located next to the Filter button on the Scheduled Reports window will display all reports currently scheduled.

Scheduled Reports

The **Scheduled Reports** option provides facilities by which to create reports that can then be published automatically by Manitou according to a specified schedule. The "Scheduled Reports" section contains a list of all report publishing instructions that currently exist in the system. Any instruction contained in the list can be selected for viewing or editing by clicking the appropriate row with the left mouse button. The "Publishing Destinations" section provides a list of recipients for the instruction selected in the upper pane.

Please note that scheduling reports cannot be done from the Reports menu, but rather in the customer, dealer, monitoring company, agency, branch and global keyholder records. For example, to schedule a report for a Dealer, the user must select the Dealer from the Dealer menu and schedule the reports using the form found in the Jump To menu. The following form is a general form used in a customer context, but can be easily adapted for each entity.



Schedule a Report

Prior to working with this feature, it is recommended the user become familiar with the procedures contained in the System Reports.

1. Open the Schedule Reports window by clicking on Reports in the Jump To menu. The Schedule Reports form will appear.
2. Click the Add New button to add a new report.
3. Select the specific report required from the list displayed in the tree now displayed to the left of the form. Users may have to expand the items in the list in order to find the desired report.

Select report from Reports List

Alarm Cause Summary

Report Description: Alarm Cause Summary

From: 000000000 To: 000000000

Customer ID: 000000000

Customer name:

Dealer ID:

Authority ID:

Branch ID:

Group:

Class:

02/28/2007 00:00:00 03/29/2007 23:59:59

NACOSS Events Only

Authority types required:

- Police
- Fire
- Medical

Alarm Type:

- False
- Genuine
- Both

Dispatched:

- All
- Dispatched
- Not Dispatched

Group by:

- Customer
- Dealer
- Authority
- Branch
- Event Category

Advanced...

4. Complete the relevant fields on the report details form and click Next.

Script Messages Sent with E-mailed Reports

The default script message that is sent with E-mailed reports can be found in the Supervisor Workstation under the Tools > Options > Reports menu. To edit the script message, go to the Supervisor Workstation > Maintenance menu > Script Messages. When making a new email script message to be sent out with E-mailed reports, only two of the script codes will populate with the information from the emailed report: {RD} and {UC}.

Edit an Existing Publishing Instruction

At times, it may be necessary to change the content of existing publishing instructions.

1. Open the Report Queue by clicking on the Reports menu and selecting Report Queue.
2. Select the publishing instruction that needs to be changed by clicking the appropriate row of the Scheduled Reports list.

Contact type: Customer Contract No: 120906 Filter Show All

Scheduled Reports Edit Selected Add New

Description	Interval	Interval Type	Report Name	Last Run	Next Run	User
▶ Daily Signals	1	None (run once)	Daily Signals		03/16/2007 13:23:46	BT

3. Click the Edit button.
4. Click the Edit selected button.
5. Change any necessary details on the reports pages, distribution criteria or the frequency criteria.
6. When the editing is complete, click Finish.
7. Click Save.

Troubleshooting

Caller ID Mismatch

If the phone number specified by the receiver is found on a transmitter record anywhere in Manitou AND the transmitter record for this signal is not one of those found, this constitutes a "Caller ID Mismatch." It will force an alarm based upon the MOption setting.

If no transmitters were found with this number, this will cause "Caller ID not found." If the transmitter for this signal does have something in Ref1 or Ref2, then it is handled as a "Caller ID Mismatch." Again, it will force an alarm or not based upon the MOption setting. If the transmitter does not find anything in Ref1 or Ref2, then the system logs an additional detail line documenting the phone number received for this event, as it could not verify the rightness or wrongness, so it is simply logged. Many customers like this option, as it allows them to go back later and add in the correct Caller ID info based upon what is showing in CLog. Also, this allows them to tell their dealers what number it was calling from if there are any questions.

Agency Rights

In order for Agencies to have the ability to authorize a schedule change for a customer, the "Can Edit Customer" button must be checked in the Agency contact's Permissions list.

Keyboard Shortcuts

Manitou utilizes several **Keyboard Shortcuts** which allow the user to quickly use a sequence of keystrokes to launch a function or application. The following Keyboard Shortcuts are available:

- CTRL Keys
- ALT Keys
- F Keys

CTRL Keys

- CTRL+E
Edits the current form if the form can be edited and is in view.
- CTRL+S
Saves the current form if the form is currently in edit mode.
- CTRL+D
Deletes the current record providing the form is in the correct location and can be deleted.
- CTRL+Q
Toggles through the open forms within Manitou alone.

ALT Keys

Using the ALT key plus any underlined letter on a form will activate that letter and function on the form. For example, if an Operator is viewing a customer record in Edit mode on the Contact List form and they wish to add a new Keyholder, they can press the ALT+A and the Add dialog launches for data entry. If the form is not the current focus, the ALT key will bring focus to the File menu at the top of the Manitou application.

When using the Alt keys to get focus on the top application menus (File, Edit, View, etc.), use the ESC key to close the dropped menus, but to get focus back onto the application form it is necessary to press the ESC key a second time.

F Keys

The Function Keys such as F2, F3, F4, F5, F6, F7, F11, and F12 perform specific functions on specific forms.

- **F2**
The F2 key brings focus to the left-hand Manitou navigator.
- **F3**
The F3 key brings focus to the Notes tab of the left-hand Manitou navigator.

- **F4**

The F4 key loads the Manual Signal form. If this is launched from a customer form the customer record loads into the form.

- **F5**

The F5 key is multi functional depending on the form that is loaded at the time. For example, if the Manual Signal form is loaded and completed the F5 key sends the manual signal to the Signal Handler. Generally the F5 key sends the completed form's details to the appropriate location.

- **F5 – Additional enhancements**

F5 now has some additional functionality outside of the Manual Signal form. On any form that has a refresh button the F5 key will now refresh those forms. The forms that will NOT refresh with the F5 key are System Log, Raw Data Log, Customer Activity Log and System Application Log.

- **F6**

The F6 key loads the On Test form. If this is launched from a customer form the customer record loads into the form.

- **F7**

The F7 key brings focus to the Instant Messenger tab on the left-hand Manitou navigator.

- **F9 – Pre-Cancel**

The F9 key will now launch the Pre-cancel form.

- **F10 – Dealer Maintenance form**

F10 will now launch the Dealer Maintenance form and if the button is launched from a customer record that contains a Dealer record the form will auto-load that dealer record.

- **F11**

If the Operator is on any entity form, such as the customer, dealer, authority, etc., the F11 key takes focus to the Bold Mode buttons across the top of the form. Any form that has those buttons across the top will get focus when the F11 key is pressed. There is an additional feature called speed keys on this bar as well. The Operator may use the first letter of the key they wish to focus upon to quickly locate there. For example if an Operator wishes to cancel out of the form they recently edited they may quickly get out of the record by pressing F11, then "C", then Enter.

- **F12**

The new "Jump To" menu is brought into focus by pressing the F12 key. Like the F11 key, this too has the speed key feature where pressing the first letter of the desired form will speed access to it. Please be aware that the speed key only works on the first letter of the form. This means that if there is more than one form that begins with the letter "C" then the speed key process would be F12 then C then C again until the Operator gets to the form they want then they press the Enter key. F12 + Home will take the Operator to the top form for that

entity and F12 + End will the Operator to the bottom form for that entity.

UL Required Reports

In compliance with UL specifications, detailed in the UL 1981 Standard for Central Station Automation Systems, Manitou is capable of producing the following on-demand reports, each of which is described in a previous section of this manual:

- Alarm Detail
- Alarm Detail by Alarm Number
- Master File report sorted by UL Certificated Accounts
- Customer Status - Active/Inactive
- Receiver Line Loading - accounts on each receiver ID

Alarm Detail

The Alarm Detail report satisfies all requirements of UL 1981 Paragraph 19.8, items a through p, which lists the requirements of an on-demand alarm report for non-certificated systems. See Section 7.02 - UL Alarm Ticket for more information.

This report satisfies one of the documentation and reporting requirements of UL 1981. Please see Appendix section 7.02 - UL Required Reports for more information.

Follow the instructions below to run an Alarm Detail report:

1. Select Maintenance>>>System Reports.
2. Select the Alarm Detail Report by clicking it in the Report navigator on the left edge of the System Reports screen.
3. Tab or click into the Report Description field and enter a detailed description for the report. It is important to be descriptive so that this report may be easily identifiable in the Report Queue.
4. On-demand reports default to a priority level of 5. However, if the report needs to be processed more quickly than other, less important reports, use the UP arrow to select 4, 3, 2, or 1, giving the report a "higher" priority.
5. Select the necessary details within one or more applicable fields, as described below. (It is possible to enter information in a single field or in many fields depending on how specific the resulting report information should be.)

- **Contract ID**

1. Enter the Contract ID (Account Number) into the left-hand From field

or use the Search icon to locate the customer record.

2. Tab or Click into the To field. The From Contract ID number automatically loads into the To field. If the report is for only the one customer record leave the field as is. If the report is for a range of customer records enter the last Contract ID number in the range or click the Search button to locate the customer account. Remember, the wider the range the larger report and therefore the longer the processing time.

- **Customer Name**

1. If the Contract ID is not necessary and the desired result of the report is to get all accounts containing a particular customer name, enter that name into the From Customer Name field.
2. Tab or Click into the To field, the customer name entered in the From field automatically loads into the To field. If this is correct, leave it as is, if not, enter the last name in the range into this field.

- **Dealer ID**

1. To get activity information based on Dealers that establish the accounts tab or click into the Dealer ID From field and enter the Dealer ID number into the field or use the Search button to locate the Dealer name.
2. Tab or Click into the To field. The Dealer Number entered into the From field automatically loads into the To field. If this is correct, leave it as is, if not, enter the new Dealer ID or use the search icon to find the Dealer ID.

- **Group**

1. Group codes can help define the Customer Activity for reporting purposes. Enter the Group Code or click the drop-down arrow to the right of the From field and select the group from the list.
2. Tab or Click into the To field, the selected Group code loads automatically into the To field. If this is correct, leave it as is, if not, enter or select the ending Group code into the To Field.

- **Class**

1. Class codes can also help define the customer activity for reporting purposes. Enter the Class Code or click the drop-down arrow to the right of the From field and select the group from the list.
2. Tab or Click into the To field, the selected Class code loads

automatically into the To field. If this is correct, leave it as is, if not, enter or select the ending Class code into the To Field.

- **Zip/Post**

1. The Zip or Postal code can help further define the specifics of a search. Tab or click into the From field and enter the zip/postal code for this report.
2. Tab or Click into the To field, the entered zip/postal code automatically loads into the To field. If this is correct, leave it as is, if not, enter the proper zip/postal code.

- **Activity Date/Time**

1. Use the drop-down arrow to the right of the From Date field and select the From date for the report.
2. Tab or click into the Time field and set the From time by typing it in or using the up/down arrows.
3. Use the drop-down arrow to the right of the To Date field and select the From date for the report.
4. Tab or click into the Time field and set the To time by typing it in or using the up/down arrows.

- **UL Grades**

1. To include Alarm Details only within customer accounts with specific UL Grades, use the checkboxes. If nothing is selected the system will disregard this parameter.

- **Dispatched**

1. Use the radio buttons to specify which alarms to include - all, Dispatched or Not Dispatched.
2. Upon entering all the parameters necessary to produce the Unrestored Signals Report, Click Next.
3. The next page contains distribution destinations. Upon load, if a customer was selected on the previous page, the customer contacts load with printer, fax and email contact information.
4. Select the publishing destinations in the left-hand window on the lower left of the distribution form. Either double click the item to move it to the right or click the right arrow [>]. If all destinations are required click the double right arrow button [>>] to move all destinations. If any

items are moved in error select the item and either double click or click the left arrow [<] to move the arrow back to the left-hand frame or the double arrow [<<] to move them all.

5. There are times when some destinations are not on the customer record the top section of the form is designed to allow the addition of non-listed destination. Tab or click into the Override recipient's name field and enter the name of the override recipient.
6. Click the drop-down list to the right of the Override destination type and select the type of destination. The choices are: Printer, Fax and Email.
7. Tab or click into the Override destination address (Fax/Email) and enter the Email address or Fax number.
8. Once all the override information is entered properly click the Add button
9. Repeat the above steps for all additional destinations.
10. Upon completion of all destinations and override destinations click Finish.
11. The system then pops up a notification that the message was properly queued and is running.

Alarm Detail by Alarm Number

The Alarm Detail report satisfies all requirements of UL 1981 Paragraph 19.8, items a through p, which lists the requirements of an on-demand alarm report for non-certificated systems. See Section UL Alarm Ticket for more information.

This report satisfies one of the documentation and reporting requirements of UL 1981. Please see Appendix section [UL Required Reports](#) for more information.

The Alarm Detail by Alarm Number report lists detailed activity by alarm number, showing Operator actions, comments and dispatch information. All activity performed on a single alarm will be included in this report.

1. Select Maintenance>>System Reports.
2. Select the Alarm Detail by Alarm Number (Alarm Detail by Alm Num) Report by clicking it in the Report navigator on the left edge of the System Reports screen.
3. Tab or click into the Report Description field and enter a detailed description for the report. It is important to be descriptive so that this report may be easily identifiable in the Report Queue.

4. On-demand reports default to a priority level of 5. However, if the report needs to be processed more quickly than other, less important reports, use the UP arrow to select 4, 3, 2, or 1, giving the report a "higher" priority.
5. Select the necessary details within one or more applicable fields, as described below. (It is possible to enter information in a single field or in many fields depending on how specific the resulting report information should be.)

- **Contract ID**

- 1) Enter the Contract ID (Account Number) into the left-hand From field or use the Search icon to locate the customer record.
- 2) Tab or Click into the To field. The From Contract ID number automatically loads into the To field. If the report is for only the one customer record leave the field as is. If the report is for a range of customer records enter the last Contract ID number in the range or click the Search button to locate the customer account. Remember, the wider the range the larger report and therefore the longer the processing time.

- **Date/Time**

- 1) Use the drop-down arrow to the right of the From Date field and select the From date for the report.
- 2) Tab or click into the Time field and set the From time by typing it in or using the up/down arrows.
- 3) Use the drop-down arrow to the right of the To Date field and select the From date for the report.
- 4) Tab or click into the Time field and set the To time by typing it in or using the up/down arrows.

- **Alarm Number**

- 1) To display all alarms within the Contract ID and Date range already indicated, leave the Alarm Number fields blank. To display a select alarm, or a range of alarm numbers, type the lowest alarm number into the first field.
- 2) Click or tab into the second Alarm Number field and type in the highest alarm number in the range.
- 3) The Alarm Number is the same as the Log Sequence Number found in the Alarm Detail report, or on the Log Details screen. To open the Log Details screen, open the Customer record for which this alarm occurred.

- 4) Click on the Logs button on the right side of the interface.
 - 5) Scroll within the log information to find the alarm.
 - 6) Double-click on the alarm row to open the Log Details. One of the entries there is the Log Sequence Number.
6. Upon entering all the parameters necessary to produce the Unrestored Signals Report, Click Next.
 7. The next page contains distribution destinations. Upon load, if a customer was selected on the previous page, the customer contacts load with printer, fax and email contact information.
 8. Select the publishing destinations in the left-hand window on the lower left of the distribution form. Either double click the item to move it to the right or click the right arrow [>]. If all destinations are required click the double right arrow button [>>] to move all destinations. If any items are moved in error select the item and either double click or click the left arrow [<] to move the arrow back to the left-hand frame or the double arrow [<<] to move them all.
 9. There are times when some destinations are not on the customer record the top section of the form is designed to allow the addition of non-listed destination. Tab or click into the Override recipient's name field and enter the name of the override recipient.
 10. Click the drop-down list to the right of the Override destination type and select the type of destination. The choices are: Printer, Fax and Email.
 11. Tab or click into the Override destination address (Fax/Email) and enter the Email address or Fax number.
 12. Once all the override information is entered properly click the Add button
 13. Repeat the above steps for all additional destinations.
 14. Upon completion of all destinations and override destinations click Finish.
 15. The system then pops up a notification that the message was properly queued and is running.

Master File Report Sorted by UL Certificated Accounts

This report satisfies one of the documentation and reporting requirements of UL 1981. Please see Appendix section UL Required Reports for more information.

The Master File report, reports all selected customer details for file maintenance.

1. Select Maintenance>>System Reports.

2. Select the Master File Report by clicking it in the Report navigator on the left edge of the System Reports screen.
3. Tab or click into the Report Description field and enter a detailed description for the report. It is important to be descriptive so that this report may be easily identifiable in the Report Queue.
4. On-demand reports default to a priority level of 5. However, if the report needs to be processed more quickly than other, less important reports, use the UP arrow to select 4, 3, 2, or 1, giving the report a "higher" priority.
5. Select the necessary details within one or more applicable fields, as described below. (It is possible to enter information in a single field or in many fields depending on how specific the resulting report information should be.)

- **Contract ID**

- 1) Enter the Contract ID (Account Number) into the left-hand From field or use the Search icon to locate the customer record.
- 2) Tab or Click into the To field. The From Contract ID number automatically loads into the To field. If the report is for only the one customer record leave the field as is. If the report is for a range of customer records enter the last Contract ID number in the range or click the Search button to locate the customer account. Remember, the wider the range the larger report and therefore the longer the processing time.

- **Customer Name**

- 1) If the Contract ID is not necessary and the desired result of the report is to get all accounts containing a particular customer name, enter that name into the From Customer Name field.
- 2) Tab or Click into the To field, the customer name entered in the From field automatically loads into the To field. If this is correct, leave it as is, if not, enter the last name in the range into this field.

- **Dealer ID**

- 1) To get activity information based on Dealers that establish the accounts tab or click into the Dealer ID From field and enter the Dealer ID number into the field or use the Search button to locate the Dealer name.
- 2) Tab or Click into the To field. The Dealer Number entered into the From field automatically loads into the To field. If this is correct, leave it as is, if not, enter the new Dealer ID or use the search icon to find the Dealer ID.

- **Group**

- 1) Group codes can help define the Customer Activity for reporting purposes. Enter the Group Code or click the drop-down arrow to the right of the From field and select the group from the list.
- 2) Tab or Click into the To field, the selected Group code loads automatically into the To field. If this is correct, leave it as is, if not, enter or select the ending Group code into the To Field.

- **Class**

- 1) Class codes can also help define the customer activity for reporting purposes. Enter the Class Code or click the drop-down arrow to the right of the From field and select the group from the list.
- 2) Tab or Click into the To field, the selected Class code loads automatically into the To field. If this is correct, leave it as is, if not, enter or select the ending Class code into the To Field.

- **Commission Date**

- 1) Use the drop-down arrow to the right of the From Commission Date field and select the From date for the report.
- 2) Tab or click into the Time field and set the From time by typing it in or using the up/down arrows.
- 3) Use the drop-down arrow to the right of the To Commission Date field and select the From date for the report.
- 4) Tab or click into the Time field and set the To time by typing it in or using the up/down arrows.

- **Create date**

- 1) Use the drop-down arrow to the right of the From Create Date field and select the From date for the report.
- 2) Tab or click into the Time field and set the From time by typing it in or using the up/down arrows.
- 3) Use the drop-down arrow to the right of the To Create Date field and select the From date for the report.
- 4) Tab or click into the Time field and set the To time by typing it in or using the up/down arrows.

- **Last update date**

- 1) Use the drop-down arrow to the right of the From Last Update Date field and select the From date for the report.
 - 2) Tab or click into the Time field and set the From time by typing it in or using the up/down arrows.
 - 3) Use the drop-down arrow to the right of the To Last Update field and select the From date for the report.
 - 4) Tab or click into the Time field and set the To time by typing it in or using the up/down arrows.
- **Marked for reprint**
 - 1) To include any customer accounts that are marked for reprint, click the checkbox.
 - **Sub-reports**
 - 1) Select the additional items to include on the report by clicking the desired checkboxes to the left of the sub-report title.
6. Upon entering all the parameters necessary to produce the Master File Report, Click Next.
 7. The next page contains distribution destinations. Upon load, if a customer was selected on the previous page, the customer contacts load with printer, fax and email contact information.
 8. Select the publishing destinations in the left-hand window on the lower left of the distribution form. Either double click the item to move it to the right or click the right arrow [>]. If all destinations are required click the double right arrow button [>>] to move all destinations. If any items are moved in error select the item and either double click or click the left arrow [<] to move the arrow back to the left-hand frame or the double arrow [<<] to move them all.
 9. There are times when some destinations are not on the customer record the top section of the form is designed to allow the addition of non-listed destination. Tab or click into the Override recipient's name field and enter the name of the override recipient.
 10. Click the drop-down list to the right of the Override destination type and select the type of destination. The choices are: Printer, Fax and Email.
 11. Tab or click into the Override destination address (Fax/Email) and enter the Email address or Fax number.
 12. Once all the override information is entered properly click the Add button
 13. Repeat the above steps for all additional destinations.

14. Upon completion of all destinations and override destinations click Finish.
15. The system then pops up a notification that the message was properly queued and is running.

Customer Status - Active/Inactive

This report satisfies one of the documentation and reporting requirements of UL 1981. Please see Appendix section UL Required Reports for more information.

The Customer Status report, lists the current active alarm status for a single customer or all customer accounts.

1. Select Maintenance>>>System Reports.
2. Select the Customer Activity Report by clicking it in the Report navigator on the left edge of the System Reports screen.
3. Tab or click into the Customer Status field and enter a detailed description for the report. It is important to be descriptive so that this report may be easily identifiable in the Report Queue.
4. On-demand reports default to a priority level of 5. However, if the report needs to be processed more quickly than other, less important reports, use the UP arrow to select 4, 3, 2, or 1, giving the report a "higher" priority.
5. Determine if the report should run on All Customers or a Single customer.
6. For the Single customer selection tab or click into the Contract ID field and enter the Contract ID or click the Search button and locate the customer.
7. Upon entering all the parameters necessary to produce the Customer Status Report, Click Next.
8. The next page contains distribution destinations. Upon load, if a customer was selected on the previous page, the customer contacts load with printer, fax and email contact information.
9. Select the publishing destinations in the left-hand window on the lower left of the distribution form. Either double click the item to move it to the right or click the right arrow [>]. If all destinations are required click the double right arrow button [>>] to move all destinations. If any items are moved in error select the item and either double click or click the left arrow [<] to move the arrow back to the left-hand frame or the double arrow [<<] to move them all.
10. There are times when some destinations are not on the customer record the top section of the form is designed to allow the addition of non-listed destination. Tab or click into the Override recipient's name field and enter the name of the override recipient.

11. Click the drop-down list to the right of the Override destination type and select the type of destination. The choices are: Printer, Fax and Email.
12. Tab or click into the Override destination address (Fax/Email) and enter the Email address or Fax number.
13. Once all the override information is entered properly click the Add button
14. Repeat the above steps for all additional destinations.
15. Upon completion of all destinations and override destinations click Finish.
16. The system then pops up a notification that the message was properly queued and is running.

Receiver Line Loading - Accounts on Each Receiver ID

This report satisfies one of the documentation and reporting requirements of UL 1981. Please see Appendix section UL Required Reports for more information.

This report lists Receiver Lines, showing customer allocation to each. It is important to know which Receivers are processing signals and alarms from which customers, and the load on each receiver, in order to troubleshoot the system when and if necessary. Below are the instructions for running the Receiver Line Loading report:

1. Select Maintenance>>System Reports.
2. Select the Receiver Line Loading (Rec Line Loading) Report by clicking it in the Report navigator on the left edge of the System Reports screen.
3. Tab or click into the Report Description field and enter a detailed description for the report. It is important to be descriptive so that this report may be easily identifiable in the Report Queue.
4. On-demand reports default to a priority level of 5. However, if the report needs to be processed more quickly than other, less important reports, use the UP arrow to select 4, 3, 2, or 1, giving the report a "higher" priority.
5. Select the necessary details within one or more applicable fields, as described below. (It is possible to enter information in a single field or in many fields depending on how specific the resulting report information should be.)
6. Check the checkboxes corresponding with the Receiver Lines to be displayed on the report.
7. Click Next.
8. The next page contains distribution destinations. Upon load, if a customer was selected on the previous page, the customer contacts load with printer, fax and email

contact information.

9. Select the publishing destinations in the left-hand window on the lower left of the distribution form. Either double click the item to move it to the right or click the right arrow [>]. If all destinations are required click the double right arrow button [>>] to move all destinations. If any items are moved in error select the item and either double click or click the left arrow [<] to move the arrow back to the left-hand frame or the double arrow [<<] to move them all.
10. There are times when some destinations are not on the customer record the top section of the form is designed to allow the addition of non-listed destination. Tab or click into the Override recipient's name field and enter the name of the override recipient.
11. Click the drop-down list to the right of the Override destination type and select the type of destination. The choices are: Printer, Fax and Email.
12. Tab or click into the Override destination address (Fax/Email) and enter the Email address or Fax number.
13. Once all the override information is entered properly click the Add button
14. Repeat the above steps for all additional destinations.
15. Upon completion of all destinations and override destinations click Finish.
16. The system then pops up a notification that the message was properly queued and is running.

UL Standards

In compliance with UL requirements for documentation, this UL Addendum contains the following sections:

- **Revision History**
- **UL Alarm Ticket**
- **UL Required Reports**
- **UL Required Signal Priorities**
- **Manitou System Configuration**
- **Replication Switchover Procedure**
- **Manitou Remote Access**
- **UL Alarm Handling Summary - Operation**

Additionally, this UL Addendum contains excerpts from the UL 1981 Standard for Central Station Automation Systems, describing the necessary components a Central Station must have to maintain UL 1981 compliance. For further information please refer to the referenced sections of the UL 1981 Standard for Central Station Automation Systems.

Revision History

UL Alarm Ticket

1. This section has been included in accordance with UL 1981 Paragraph 19.8, items a through p, which lists the requirements of an on-demand alarm report for non-certificated systems. The report shall include the following items, as applicable:
2. Name and address of subscriber (fire/burglary).
3. Type of alarm (burglary, hold-up, fire).
4. Grade of service (burglary).
5. Time alarm received by the Central Station receiver (fire/burglary).
6. Time police/fire department notified and police/fire department identification number (fire/burglary).
7. Time alarm investigator No. 1 dispatched, name and employee ID (fire/burglary).
8. Time alarm investigator No. 2 (if any) dispatched, name and employee ID (fire/burglar).
9. Time alarm investigator No. 1 arrived (fire/burglary).
10. Time alarm investigator No. 2 arrived (if dispatched) (fire/burglary).
11. Elapsed time between the receipt of the alarm signal at the Central Station and the investigator's arrival at the protected premises.
12. Method used to verify alarm investigator's arrival such as radio, telephone, or the like (fire/burglary).
13. Whether the Central Station holds keys.
14. Whether keys were used or not used (fire/burglary).
15. Time subscriber notified, name of subscriber notified (may need 2 or 3 lines for multiple notifications) (fire/burglary).
16. Disposition of alarm (fire/burglary).
17. Whether a sounding device is used on the system.

By running the Alarm Detail report for a specific day (date), an Operator can look up alarm numbers on which to run the Alarm Detail by Alm Num report. This report contains all of the requirements above and may be run on-demand by Operators.

All UL Certificated Customers must have an action pattern that gathers the following information:

1. Authority responding to the alarm (Fire Department, Police Department, etc.)
2. Alarm Investigator (Agency) responding to the alarm (Guarding Agency, Inspection Agency, etc.)
3. Verification of contact with the Customer or a Keyholder on the account
4. Attention field denoting whether or not the Central Station possesses keys for the Premises.

WARNING: If the above items are not gathered, the Alarm Ticket does not satisfy UL 1981 requirements

UK-Specific Topics

Remote Reset

Remote Reset is available in the Customer Activity Logs form for UK (country 44) customers. The dealer must belong to the UK 44 country code in order for the remote reset type, and the dealer seed code to appear. The customer's control panel must be one of the "Selected" Control Panels for that dealer and the remote reset type and seed code must be entered. Policed and non-Policed response info is entered on the dealer and company (default if not entered on the dealer) record. "Reset No Signal" should always be available on the Customer Logs form.

When a signal or alarm is the currently selected Log item, the "Reset Signal" button enables and "Resent No Signal" disables. When either "Reset Signal" or "Reset No Signal" is selected, a dialog will show prompting the user for an Anti-Code. This is a number displaying on the customer's keypad. Enter that number and then press the Get Code button.

If the setup is good, the Reset Code will display on the dialogue and a line will be added to the log, either as a general of Reset No Signal or as a detail of a signal or alarm. The Operator would relay this Reset Code to the end user to enter on the keypad and reset the system.

The dealer's set up determines whether a panel is a valid type. Under the Control Panels section of the Dealer, select the correct Remote Reset Type and enter that Dealer's Seed Code for that reset type for each applicable control panel type. Next, enter the number of resets and

day period on the Remote Resets section. If set to 0, it will use the Company's settings. If the Company's settings are also both 0, then no checks will be made to determine if the reset limit has been reached. A dealer's customer with a control panel type that has Remote Reset Type information attached will now be able to do remote resets.

The "Number of resets allowed" and "Number of days resets allowed" forms determine how many resets are allowed per week. For example, if 7 is entered, then 7 resets per week are allowed. This information is stored in Customer Activity. The limit is per customer (not dealer). An error will be returned to the operator if the customer has reached or exceeded their limit. The operator can request that the reset be generated even though the customer has exceeded their limit.

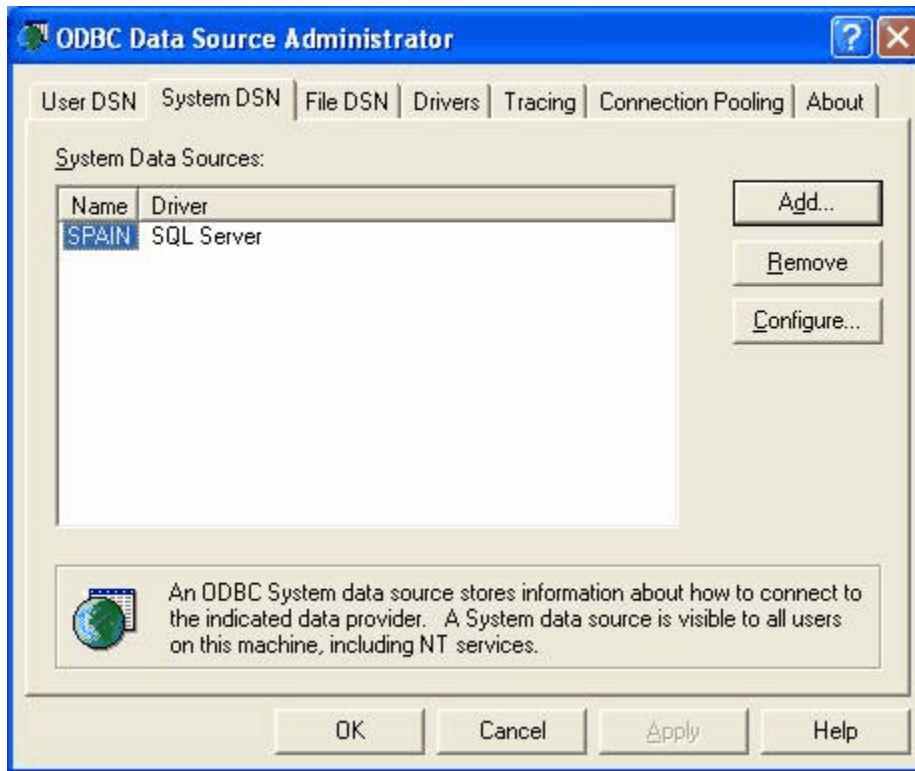
Language Utility

A Language Utility is available for use for translation in Manitou. The Operator Workstation and Supervisor Workstation clients have been made to be fully translatable, and it is possible to have one client displaying in one language and another client in a different language. Each workstation has a default language (Locale) assigned to it. However, when an operator logs in, the client will then use the language setting of that user.

The user must create an ODBC connection to the Manitou database and then point the utility to the ODBC. To do this, create a shortcut and then put the name of the new ODBC connection at the end of the target line.

e.g. "C:\Program Files\Bold Technologies\Manitou\LanguageUtility.exe" SPAIN

In this example, an ODBC connection to the Manitou database called SPAIN was created:



Language Settings

In order to translate text that may appear before a server connection is established, a text file named 'Startup.txt' can be placed in the same directory as the workstation clients. If this file exists, translation text will be used from it until a server connection is established, in which case, translation text will be pulled from the database. The file is a simple text file with two double-quoted pieces of text separated by a comma. The 'right-side' text is the original text from the client that must not be changed in any way. The 'left-side' text is the translated text to be displayed in its place. Each physical workstation can have a different Startup.txt file, if desired (though not likely). The default file supplied contains the same text on both 'sides'. Only use this in cases where the client is being translated. It will otherwise unnecessarily slow the client down if not needed.

In order to determine which locales are to be translated, a new option has been added to the Locales form. If selected, that locale will attempt to translate all default English text. The database of translated text is self-learning. Any text not found will automatically be added with the original English text as the translated text. A translation tool is available for editing the translated text.

For new installations needing translated text, the Operator Workstation will also display the license agreement text from an external file, if installed in the same directory as the client. The file name is 'ManitouLicense.rtf'. If this file is installed, all requirements, implications, limitations, exclusions and assertions of the legal statements, must be conveyed with the same meaning as the original English version with regard to Bold Technologies, Ltd.

For the above language translation reasons, the Alarm Available dialog will no longer respond to the ‘Y’, ‘P’, and ‘E’ keystrokes. The Yes equivalent button is now the default button (selected when the button has focus and the Space Bar or Enter key is pressed – has the initial focus by default) and the Exit equivalent button is the cancel button (selected when ESC is pressed). The Pause equivalent button must be selected either via the mouse or by tabbing to it and pressing the Space Bar or Enter key.

Appendix A - Software Compatability Chart

VertX Firmware	V100	V200	V300
R1.0.0	V100EE_r100.hex	V200EE_r100.hex	V300EE_r101.hex
R1.1.0	V100EE_r100.hex	V200EE_r100.hex	V300EE_r101.hex
R2.0.0	V100EE_r102.hex	V200EE_r102.hex	V300EE_r102.hex
R2.1.0	V100EE_r102.hex	V200EE_r102.hex	V300EE_r102.hex
R2.2.0	V100EE_r103.hex	V200EE_r103.hex	V300EE_r102.hex
R2.2.1	V100EE_r104.hex	V200EE_r104.hex	V300EE_r103.hex
R2.2.2	V100EE_r104CIFO.hex	V200EE_r104.hex	V300EE_r103.hex
R2.2.3	V100EE_r104CIFO.hex	V200EE_r104.hex	V300EE_r103.hex
R2.2.5	V100EE_r109.hex	V200EE_r104.hex	V300EE_r103.hex
R2.2.6	V100EE_r110.hex	V200EE_r105.hex	V300EE_r104.hex

Appendix B - Manitou Services Descriptions

Dates on Services

With the exception of the Standard Service all other services may have a start and end date. The Manitou application will enable and disable those services based on those dates.

Standard

The Standard service (previously Alarms Only) is used to define an account in Manitou. If there is a customer account in Manitou it should have the Standard service. This simply makes sure that the programming is enabled for the record.

User Defined Services

This service can be added multiple times provided the description name is changed to something different each time. This is provided to the monitoring company to add services they offer that are not listed in Manitou's default services list.

Open/Close

The Open/Close service turns on the Schedules and enables the monitoring or recording of openings and closings of the system. When this service is set to Monitor any exceptions will trigger alarm events requiring some sort of operator intervention. When this service is set to Record no events, exception or not, will trigger alarms. Exception events can be reviewed through the activity log and reporting.

Fire Test

The Fire Test service is for Fire systems that want to separate out the Test and standard service. This doesn't turn any other functions on or off within the application it just for reference purposes only. This service, like all others, can be flagged as chargeable.

Executive Protection

This service is designed for personal protection services. This does not turn on any other functions within Manitou. Generally how Manitou would track executive protection would most often be through a schedule where the application would expect a "check-in" at certain times of day. If no "check-in" happened (operators would send in a manual signal when they received the telephone call) the system would then generate a "late-to" signal and the operator would then attempt to contact the protection agent and the protected person. If they were unable to contact them they would then dispatch to the last known location.

Lone Worker

This service is designed for someone like a door-to-door sales person that works a route or region alone, or a person that works in a business alone. Like Executive Protection generally how Manitou would track lone worker would most often be through a schedule where the application would expect a "check-in" at certain times of day. If no "check-in" happened (operators would send in a manual signal when they received the telephone call) the system would then generate a "late-to" signal and the operator would then attempt to contact the

worker. If they were unable to contact them they would then dispatch to the last known location.

Log Only (All Signals Logged)

This service will **override all other services on the account**. This would most often be utilized when an account is either not yet ready to receive live signals or has reached its contract end date and has not yet renewed. This is used to override the existing services without having to remove the services.

Transmitter Test

The Transmitter Test service enables the Transmitter Test interval on the Transmitter form within the customer record. The default test interval set when this service is selected is seven days. This service is most often utilized to ensure that the transmitter is indeed functioning every day, week, or month. If the system doesn't receive its expected test or qualifying signal within the test period the system will then generate a Late to Test alarm.

Dual Signaling

The Dual Signaling service is used when an account has two transmitters and one backs up the other. For example, a telephone line transmitter may be backed up by a radio transmitter. Obviously, the monitoring company doesn't want to have to deal with two alarms each time so it is possible to link the two signals together through transmitter programming. If the telephone line alarm comes into the system it waits for the radio signal for a defined period of time and if the radio signal does not arrive the system gets an additional alarm stating that the alarm was missing its dual signal. If the radio signal does arrive the one becomes a signal and the other becomes the alarm.

Two Trip Signaling

The Two Trip service turns on the programming commands to enable the ability to wait for a second alarm before triggering an alarm. This would be used most often when a door contact may not be the most secure so the customer wants to wait for a secondary zone to trigger before generating an alarm. This requires some very specific programming and the signals themselves must have the ability to participate in two trip signaling. Please refer to the advanced programming commands for more information.

Entry/Exit Delay

The Entry Exit Delay service is used when a person may take longer than the standard length of time and/or trigger multiple zones prior to reaching the key panel to disarm, or exit, the location.

Reports

This service does not turn anything on or off within the Manitou application it is for tracking or display purposes only.

Audio Monitoring

This service does not turn anything on or off within the Manitou application it is for tracking or display purposes only.

Video Monitoring

This service does not turn anything on or off within the Manitou application it is for tracking or display purposes only.

UL Account

This service enables the UL features for the customer record. UL is for United States and Canada and refers to specific response times required for certain alarms.

Verify Open/Close User

This service is designed for the system to bring open and close signals to the operator's attention so that the Open and Closing users are verified. It is important that there is an appropriate action pattern applied to these open and close signals so that the Police authorities are not contacted unless the verification is not successfully completed.

Guard Tour

The Guard Tour service enables the advanced programming commands and is designed so that when a guard on a property does their tour of the property they trigger specific zones in a specific order. If they do not trigger the zones in order or miss a zone, this will generate an exception at the monitoring company. This requires some very specific programming and the event codes themselves must be programmed for inclusion in a guard tour. Please refer to the advanced programming commands document for additional information.

Maintenance Services

This service does not turn anything on or off within the Manitou application it is for tracking or display purposes only.

Appendix C - Entry/Exit Programming

Entry/Exit Delay

This command is used when signals are sent prior to an Opening signal, and after a Closing signal (and the panel does not itself handle Entry/Exit delays). The following rules apply to the Entry/Exit Delay process:

- Entry/Exit Delay service must be selected on the Services tab of the Customer record in order to utilize this command. Time out must be reasonable for the individual site and must be greater than zero.
- Open/Close service must also be selected for the Customer record. If a signal with this command is received while the area is closed and within an opening window, the signal does delay (doesn't drop into the alarm queue) waiting for the Opening signal. If the opening signal arrives within the prescribed period of time set on the Entry/Exit Delay

service the alarm can be canceled and, if desired. If the Opening signal is received within the timeout period, the delayed signal is ignored. If a signal with this command is received within timeout seconds after a recent closing signal, the received signal is ignored, providing the status is new or new/suspended.

- The area upon which the signal is to be received must have an Open/Close schedule attached to it.

Entry delay processing will only work when it is within a scheduled Opening window. Exit ignore processing will always happen following a Closing (scheduled or not). It is possible to set up a schedule such that an Opening or Closing can happen at any time. However, it is important to realize that any signals flagged as being Entry/Exit signals will always be delayed for the entire Entry/Exit delay time always (since it could be followed by an Opening signal). We do not recommend that an 'Anytime Access' schedule be used for that reason. It should have some reasonable start and end boundaries to the window.

Schedule Examples

Open/Close at anytime (not recommended)

The following schedule will cause the Entry delay process to happen at any time (can open at any time):

Mon	00:00	May Open/Close
Tue	00:00	May Open/Close
Wed	00:00	May Open/Close
Thu	00:00	May Open/Close
Fri	00:00	May Open/Close
Sat	00:00	May Open/Close
Sun	00:00	May Open/Close

Open/Close with no Late-to for Open or Close

The following schedule allows any access between 6am and 11pm (no Late-To for Open or Close):

Mon	06:00	May Open/Close
Mon	23:00	No Activity
Tue	06:00	May Open/Close
Tue	23:00	No Activity
Wed	06:00	May Open/Close
Wed	23:00	No Activity
Thu	06:00	May Open/Close
Thu	23:00	No Activity
Fri	06:00	May Open/Close
Fri	23:00	No Activity
Sat	06:00	May Open/Close
Sat	23:00	No Activity

Sun 06:00 May Open/Close
 Sun 23:00 No Activity

The 'No Activity' action in the above schedule could be replaced by 'Must Close' which would then generate a Late-To-Close alarm to ensure that the system is armed by that per normal Open/Close scheduling. Opening and Closing signals will automatically be processed as if they were part of an Entry/Exit cycle - no Entry/Exit() command function should be designated, the Open or Closing signals do not need any special soft programming options apart from the ones that signify that it is an Opening or Closing signal.

Signal Processing Commands

m – Entry/Exit

Signifies that this event can participate in Entry/Exit delays. The signals that will participate in this process to must also contain the Signal Processing attribute of “m”

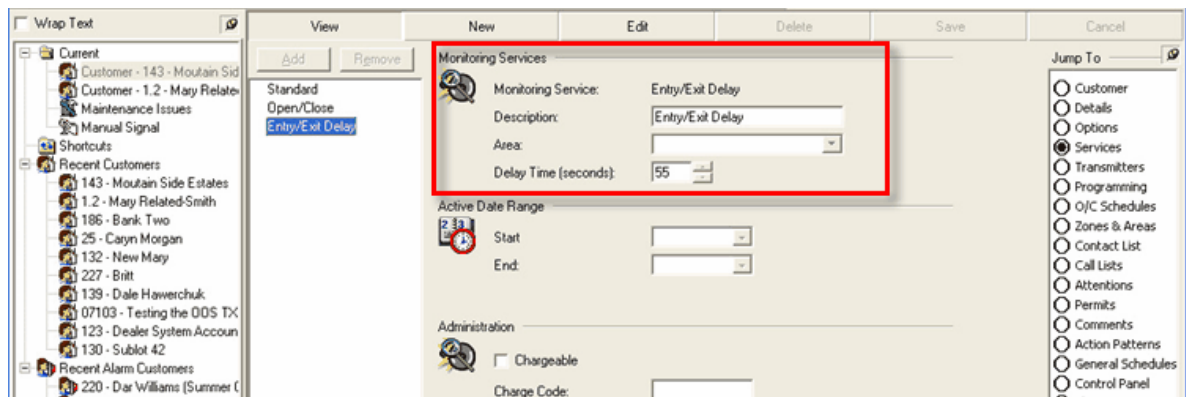
n – Delete alarm if it is canceled

If ‘c,’ ‘d,’ or ‘e’ is true then this option tells the signal handler to delete the alarm if it has been canceled when the alarm state is new or new/suspended. If the desired outcome is to remove this alarm from the alarm queue if the closing occurs within the prescribed time period then the n command is also required.

Note: These attributes are not set on any events by default to ensure that each company sets them based on their specific company practices and make a reasoned decision before using this feature.

Service Setting

Enter the delay time (in seconds) in the Delay Time field under the Service, as shown below:



Programming

The specific signals to be delayed (the ones that normally get tripped as a part of entering the building in order to access the keypad/panel to disarm the system) must have the Entry/Exit() programming function attached to them. This includes any restore signals. TwoTrip() cannot be used in conjunction with any E/E signal - TwoTrip will cause E/E to be ignored. The Event Definitions for the signal types to be delayed must have the 'm' soft programming option

enabled.

TX	DES	Area	Zone	Event	Description	Area	Zone	Point Id	Commands
*	*A	*	*	BA	Burglary Alarm	*	*		EntryExit(3)
*	*A	*	B*	*O	Open	*	*		EntryExit(3)
*	*A	*	C*	*C	Close	*	*		EntryExit(3)

Example: Burglary Alarm

View	New	Edit	Delete	Save	Cancel
<div style="display: flex; justify-content: space-between;"> Add Remove </div>					
<div style="display: flex;"> <div style="width: 30%; border-right: 1px solid gray; padding-right: 5px;"> <ul style="list-style-type: none"> *X - Auxiliary *Y - System Restore *Z - System Alarm AA - Auto Arm AD - Auto Disarm AN - Analog Restoral AR - AC Restoral AS - Analog Service AT - AC Trouble BA - Burglary Alarm BA1 - Perimeter Burg BA2 - Interior Burg BA3 - 24 Hour Burg BA4 - Entry/Exit Burg BA5 - Day/Night Burg BA6 - Burg Outdoor BA7 - Burg Tamper BA8 - Burg Near Alarm BA9 - Intrusn Verifier BB - Burglary Bypass BC - Burglary Cancel BD - Swinger Trouble BE - Swinger TRBL Restore BH - Burg Alarm Restore BJ - Burg Trouble Restore BM - Burglary Alarm - Cro BR - Burglary Restoral BR1 - Perimeter Burg Restor BR2 - Interior Burg Restor </div> <div style="width: 70%; padding-left: 5px;"> <p>Event Codes</p> <p>Event Code: BA</p> <p>Description: Burglary Alarm</p> <p>Event Category: Burglary</p> <p>Redirect Code: Activation</p> <p>Priority: 4</p> <p>Default Action Pattern: Burglary</p> <p><input checked="" type="checkbox"/> Alarm</p> <p>Generic Signal Instructions: <input type="text"/></p> <p>Signal Processing Attributes: bcdemn</p> <p>Customer Attributes: B</p> <p>Seconds before new alarm changes to: <input type="text"/> Warning Level: <input type="text"/> 90</p> <p>Danger Level: <input type="text"/> 180</p> <p>Seconds before deferred alarm changes to: <input type="text"/> Warning Level: <input type="text"/> 60</p> <p>Danger Level: <input type="text"/> 90</p> <p>Alarm Color: <input type="text"/> <input type="text"/></p> </div> </div>					
Main Disaster					

m – Entry/Exit

Signifies that this event can participate in Entry/Exit delays

n – Delete alarm if it is canceled

If 'c,' 'd,' or 'e' is true then this option tells the signal handler to delete the alarm if it has been canceled when the alarm state is new or new/suspended.

Example: Open Signal

The screenshot shows a software interface for configuring event codes. On the left is a list of event codes, with '*O - Open' selected. The main area displays the configuration for this event code. The 'Event Code' is '*O', the 'Description' is 'Open', and the 'Event Category' is 'Open / Close'. The 'Priority' is set to 10, and the 'Default Action Pattern' is 'General Non-Life Alarms'. There are two 'Seconds before new alarm changes to' fields: one for 'Warning Level' (90) and one for 'Danger Level' (180). There are also two 'Seconds before red alarm changes to' fields: one for 'Warning Level' (60) and one for 'Danger Level' (90). The 'Signal Processing Attributes' are set to 'CDEUdghimn'. The 'Customer Attributes' are set to 'C'. There are also 'Foreground' and 'Background' color selection boxes. A large black arrow points to the 'Signal Processing Attributes' field.

Field	Value
Event Code	*O
Description	Open
Event Category	Open / Close
Redirect Code	
Priority	10
Default Action Pattern	General Non-Life Alarms
Alarm	<input type="checkbox"/>
Generic Signal Instructions	
Signal Processing Attributes	CDEUdghimn
Customer Attributes	C
Seconds before new alarm changes to: Warning Level	90
Seconds before new alarm changes to: Danger Level	180
Seconds before red alarm changes to: Warning Level	60
Seconds before red alarm changes to: Danger Level	90
Foreground	
Background	

m – Entry/Exit

Signifies that this event can participate in Entry/Exit delays

Example: Close Signal

The screenshot shows the 'Event Codes' configuration window in the Manitou Client 1.5.2. The window has a menu bar with 'View', 'New', 'Edit', 'Delete', 'Save', and 'Cancel'. Below the menu bar are 'Add' and 'Remove' buttons. A list of event codes is on the left, with '*C - Close' selected. The main area shows the configuration for '*C':

- Event Code: *C
- Description: Close
- Event Category: Open / Close
- Redirect Code: (empty)
- Priority: 10
- Default Action Pattern: (empty)
- Alarm:
- Generic Signal Instructions: (empty)
- Signal Processing Attributes: FGHum
- Customer Attributes: C
- Seconds before new alarm changes to: Warning Level: 90, Danger Level: 180
- Seconds before deferred alarm changes to: Warning Level: 60, Danger Level: 90
- Foreground: (black swatch)
- Background: (black swatch)

A large black arrow points to the 'Signal Processing Attributes' field.

m – Entry/Exit

Signifies that this event can participate in Entry/Exit delays

Entry Type

The final piece is the entry of the right Entry/Exit Delay Type (EntryExit() command parameter) on the signals. With the current implementation, the following examples describe the required Delay Types needed:

Type numbers

- 1 – Signifies the Start of Entry, but Intermediate for Exit.
- 2 – All other signals
- 3 – Any part of the Entry/Exit process
- 4 – Intermediate for Entry, but Final for Exit
- 5 – Start of Entry and Final for Exit

Openings

The first is for systems that reports restore on the initial entry point (perimeter burg from the door being opened):

BA zone <x> signal: E/E Delay Type = 3 - this is the alarm signal when the door is opened

BR zone <x> signal: E/E Delay Type = 3 - this is the restore for the above signal <any other zones and restores that would be received as part of a normal Open/Close cycle would be Type = 2>. The reason for the above types is because on the entry, the BA for the door is the first signal received.

Closings

On the way out (Closing cycle), the BR for the restore of the door is the last signal received. With this programming, the Exit delay is not terminated upon any particular signal, it must expire. If the BA is set to Type = 1 and the BR is set to Type = 2, then the final BR restore on the way out will be in Customer Activity as a Signal and not Ignored (Activity will show Closing followed by the Restore).

BA zone <x> signal: E/E Delay Type = 1 - this is the alarm signal when the door is opened


BR zone <x> signal: E/E Delay Type = 4 - this is the restore for the above signal <any other zones and restores would be Type = 2>. This would then terminate the Exit cycle upon receiving the restore signal. Any further signal would be an alarm (unless it is in an Opening window which might start a new Entry cycle).

New Functionality

The second example is for systems that do not report a restore on the door alarm. This is not recommended. The restore will ensure that the front door closed on the way out. The first example should also have RestRq() command on the door alarm with a timeout value in order to enable an Unrestored alarm event should the door not close all of the way and Restore() property on the restore event (should be automatic based upon the restore signal's event definition's signal processing attributes):

BA zone <x> signal: E/E Delay Type = 1 - this is the first and last signal <any other zones and restores would be Type = 2>

Activity Log Example

View					New					Edit					Delete					Save									
Customer Activity Log																													
					More					Comment					Resolution Code					Reset					Reset No Sig.				
Date	Time	Log Description																		User ID									
06-23-2005	14:50:53	SIGNAL (Manual) - Unsheduled Open (*OU) User No. 4 TX: 1 A: 1 RL: 01 TX-ID: 1237 Key: *A																											
06-23-2005	14:50:47	SIGNAL (Manual) - Burglary Alarm (BA) TX: 1 A: 1 Z: 4 RL: 01 TX-ID: 1237 Key: *A OA: 1 OZ: 4																											
06-23-2005	14:49:24	IGNORED - Burglary Alarm (BA) 'Description 2' TX: 1 A: 1 Z: 2 RL: 01 TX-ID: 1237 Key: *A OA: 1																											
06-23-2005	14:49:15	SIGNAL (Manual) - Unsheduled Close (*CU) User No. 1 TX: 1 A: 1 RL: 01 TX-ID: 1237 Key: *A																											

Appendix D - Delaying Signals for Future Handling

The purpose of this document is to provide information on how to delay signals such as AC failure or power outages so that the operator is not overwhelmed with activity.

In a central station there are some scenarios where acting on an event immediately when it happens is neither desirable or in the best interests of the customer or the central station. Most often these signals are trouble signals coming from a sensor such as an AC or power failure. The purpose of this document is to show one method of delaying a signal or creating a secondary event that can be acted upon.

Delaying Signals with Restore Overdue

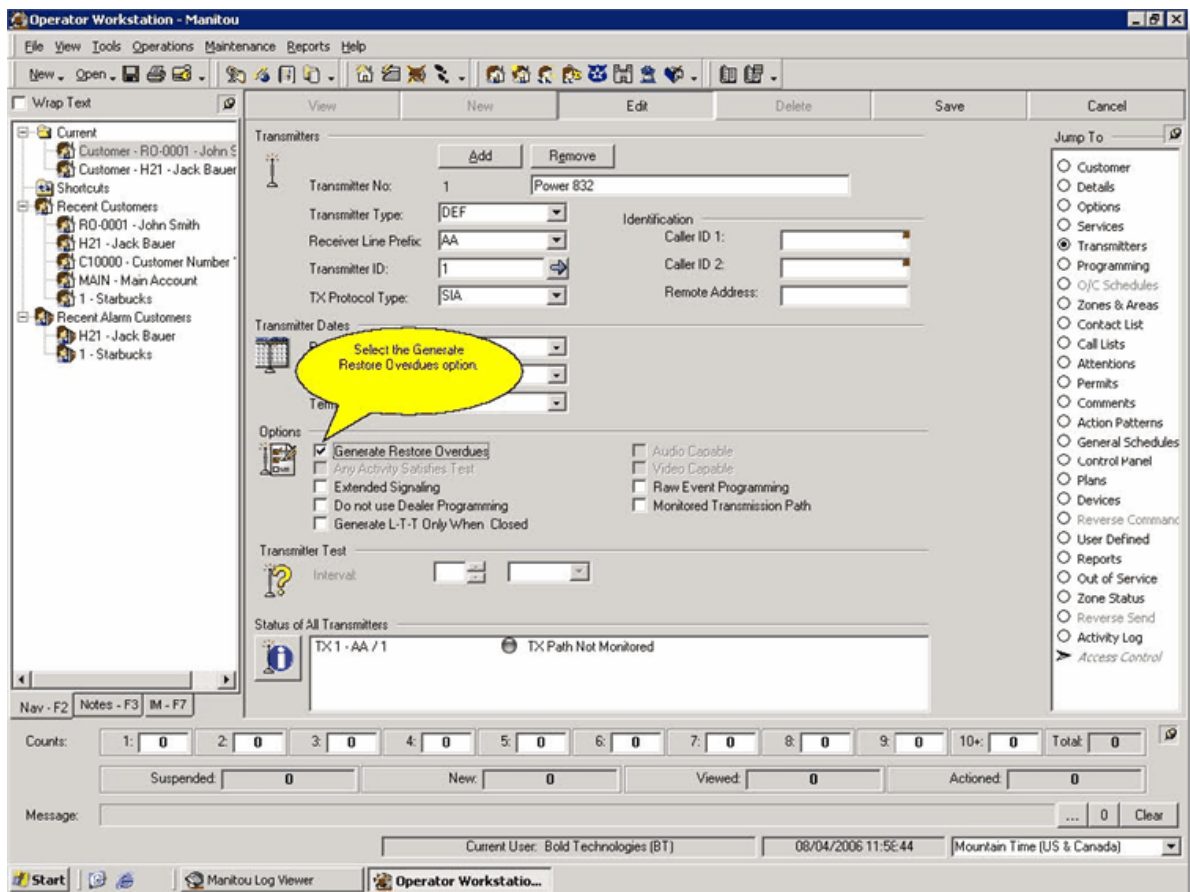
Methodology of a Restore Overdue

In the case of an AC failure or power loss, a central station can program the Manitou system to not treat the failure as an alarm but instead system handle the signal. A command can be created to require a corresponding restoral within a specific time period be received or an overdue signal will be generated. In this case the operator does not handle the actual event, but instead acts upon a overdue signal that corresponds to the original power failure.

This option prevents the alarm queue from displaying any traffic other than the signal that is generated from restorals not being received.

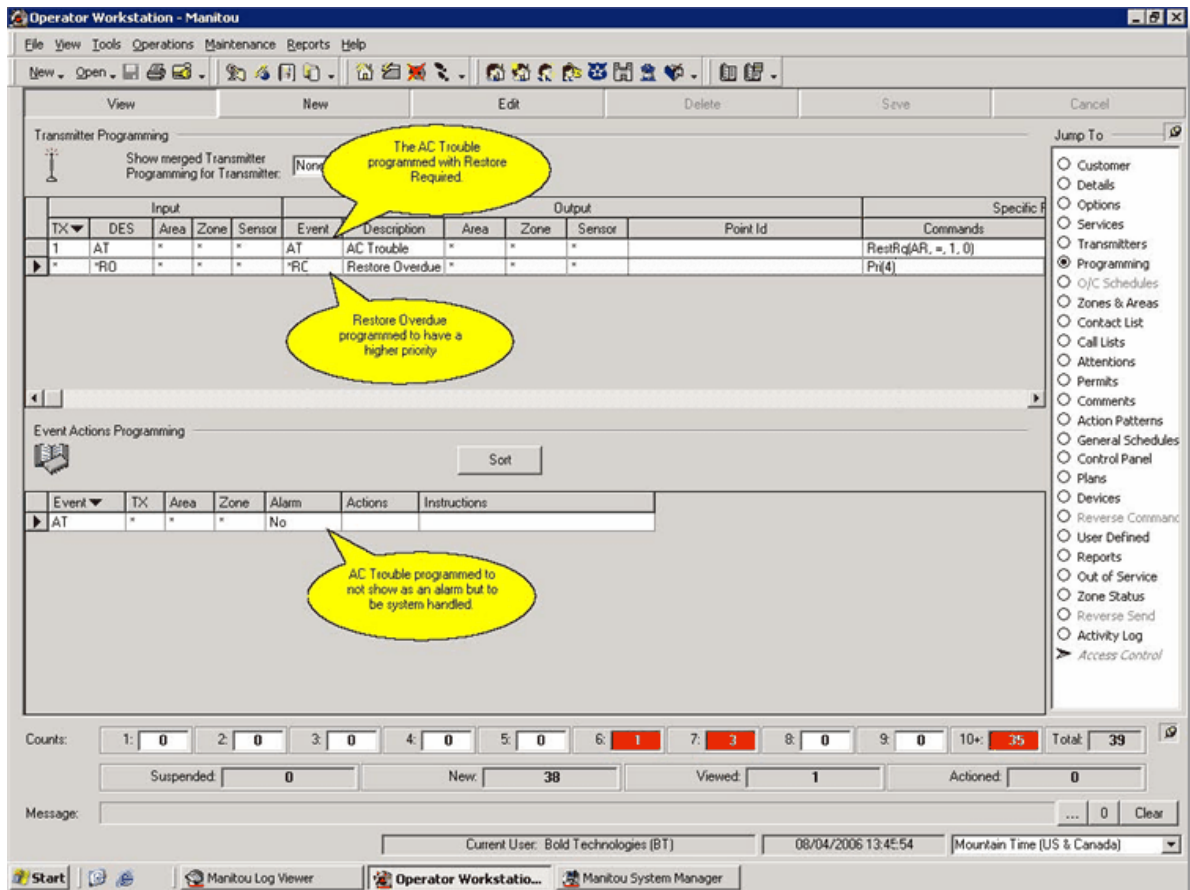
Setting the Overdue Option

This option is needs to be set per customer. If this option is not set, an overdue will not be generated. To access the option, edit the customer and select the "*Transmitters*" option from the **Jump To** menu. You will need to select the "*Generate Restore Overdues*" option.



Transmitter Programming for the Restore Overdue

The first step of programming for a *Restore Overdue* is to setup the transmitter programming. The following diagram shows the completed programming. The first line shows the programming for an AC trouble. After you have entered the basic programming it is necessary to add the *RestRq* command to the command programming.



Command Programming for the Restore Overdue

Command Programming is where the magic begins to happen. The Restore Required command (RestRq) tells the Manitou system that this signal needs a restoral in a specific amount of time. The options are:

Event

The event is the code that can restore the alarm. You can use the "*" to have any signal restore the alarm, but in most cases you will want a specific event code that will act as the restoral signal. In our case this is AR for an AC Restoral.

Zone

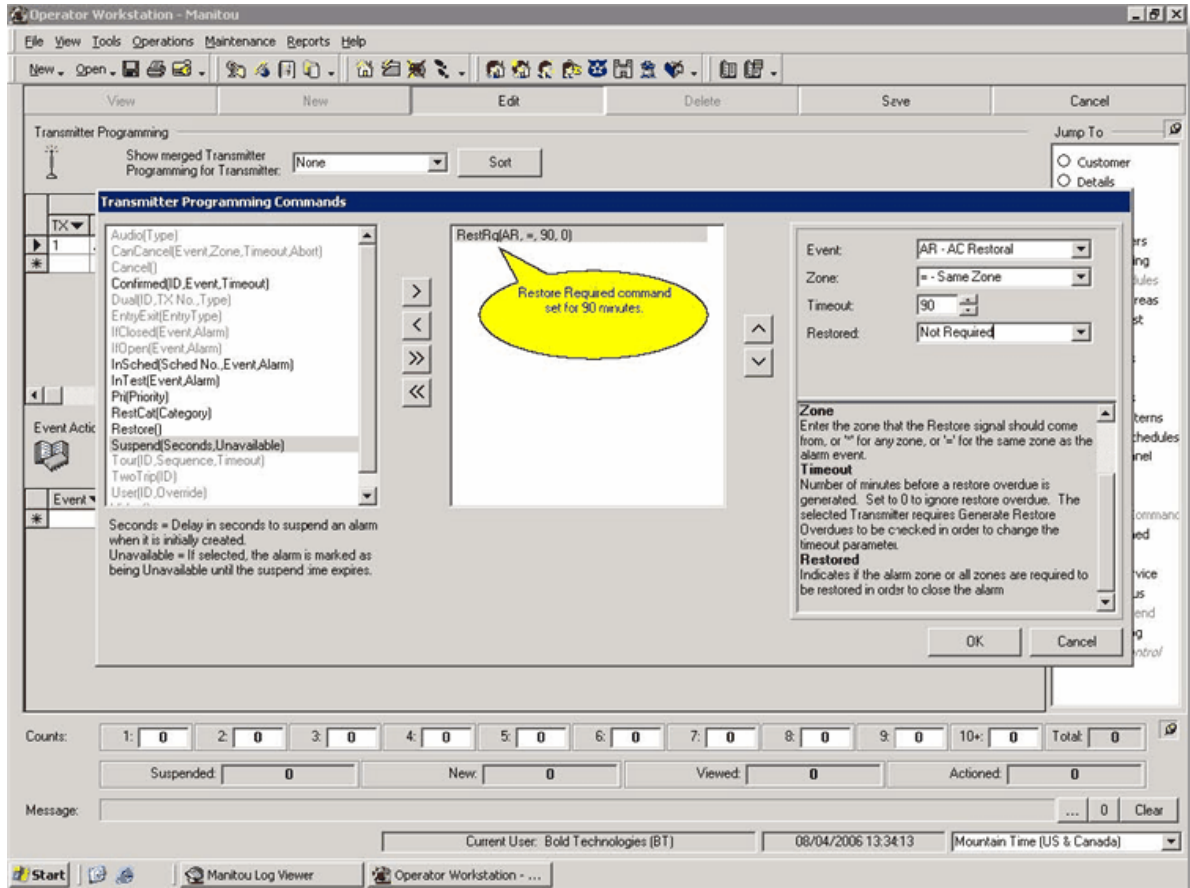
If you want to be specific, you can enter the zone for the signal that you want the restore signal should come from. Entering a "*" will allow any zone. If you want the same zone that came in with the AC failure you can use the "=" to represent it.

Timeout

This is the number of minutes before a restore overdue is generated. If you want operators to handle the alarm an hour after the original signal came in, you would set this to 60. You need to have the *Generate Overdue Restores* option turned on for this to work.

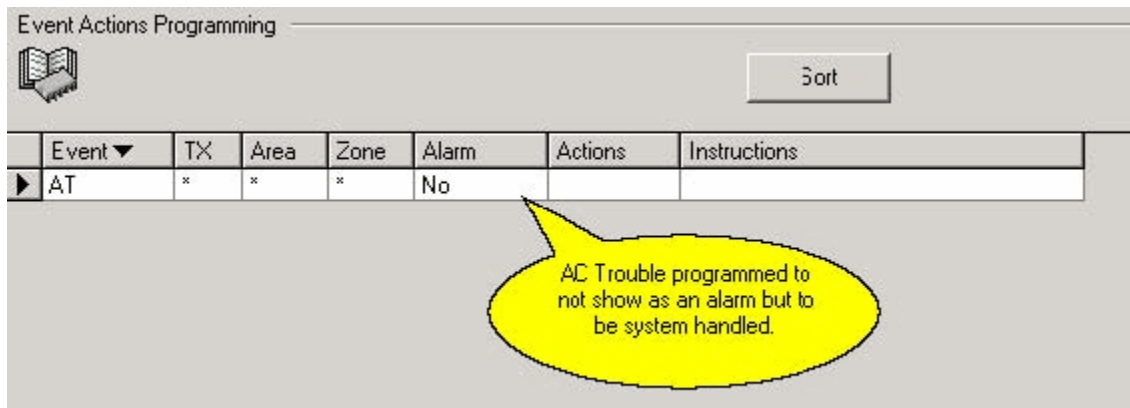
Restored

Indicates if the alarm zone or all zones are required to be restore in order to close the alarm. In some cases you may want to turn this on so that the operator cannot close the generated alarm until the restore has been received.



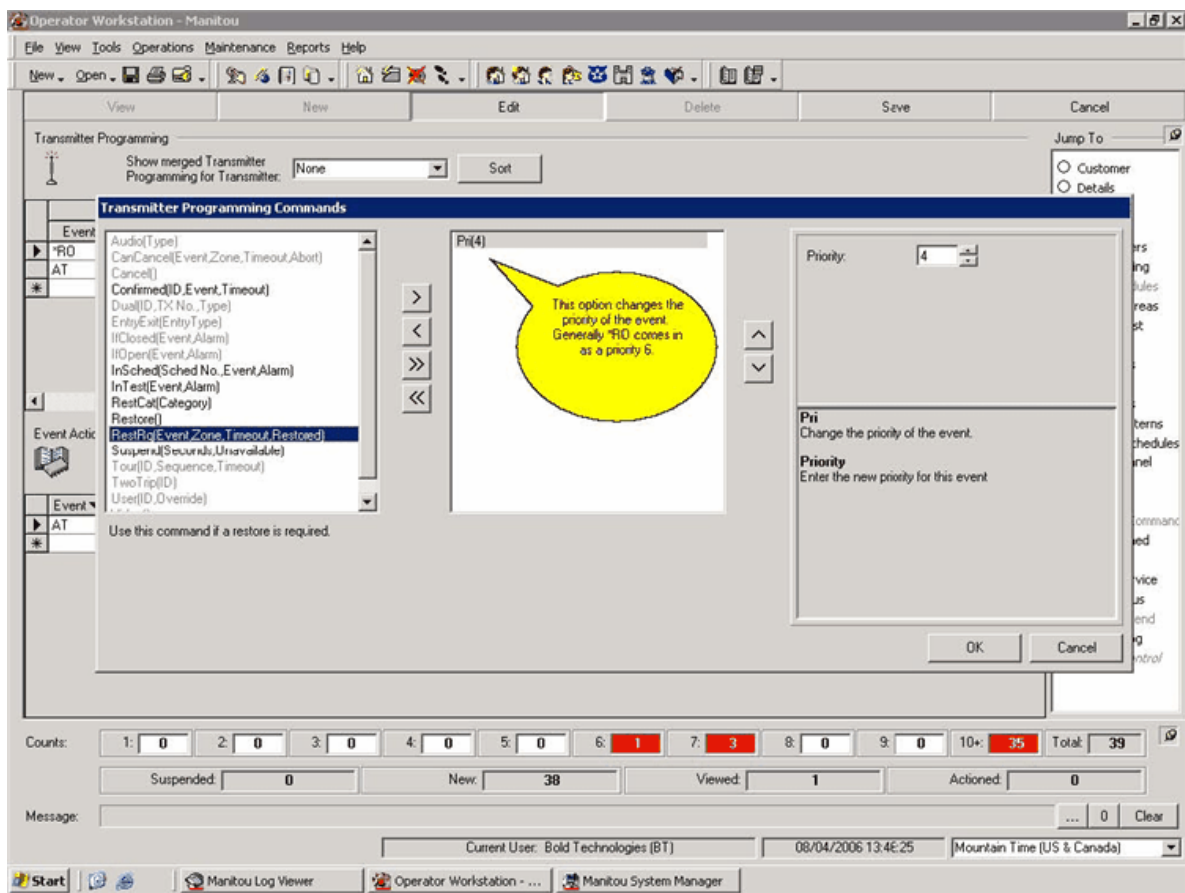
Event Actions Programming for the Restore Overdue

Since we do not want to handle the actual AC Trouble, we have added a line of programming to the Event Actions to make the AC Trouble system handled. With this done, the basics of the restore overdue have been completed.



Other Considerations for the Restore Overdue

Some central stations may find that the default priority of the Restore Overdue (*RO) may be too low for the event generated. This can also be changed through the transmitter programming. By using the Pri() command it is possible to change the priority. The Pri() command has one option which is the new priority of the alarm.



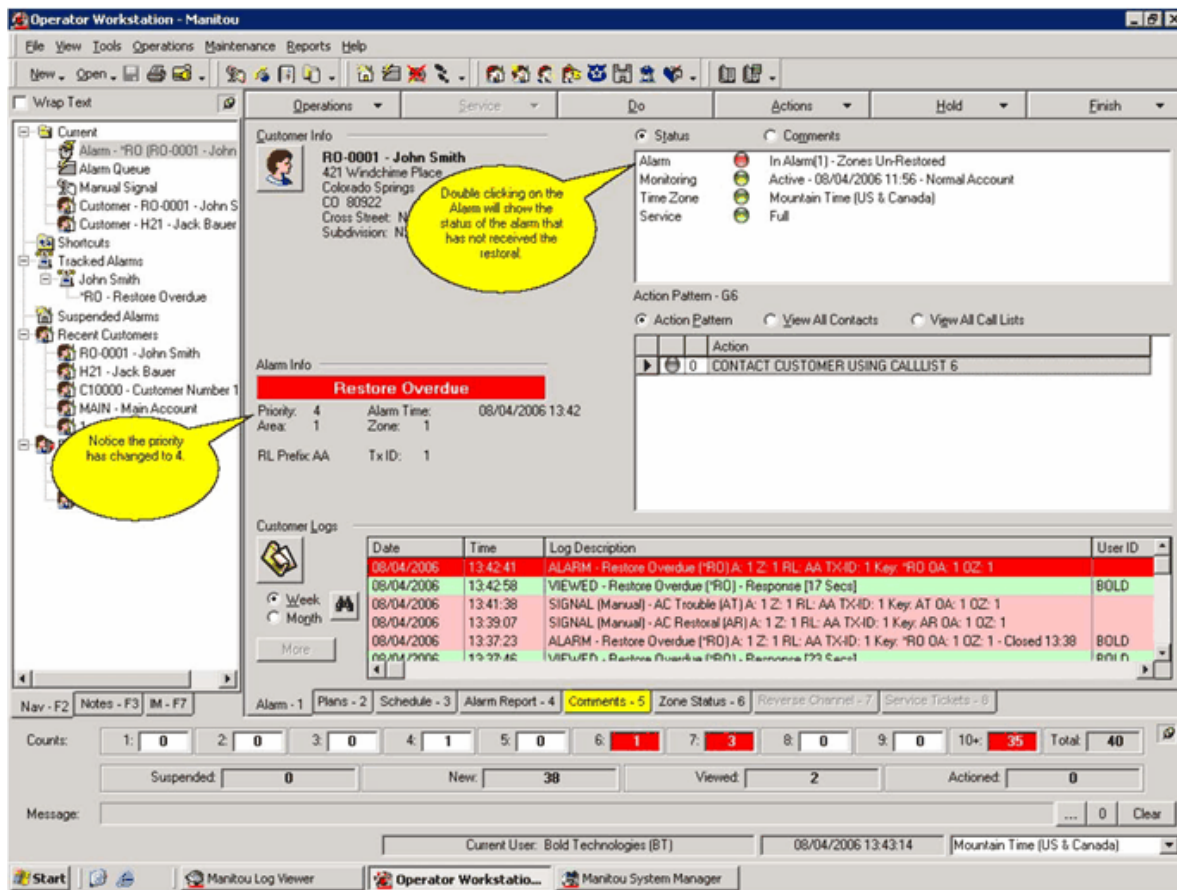
What the Operator Should See for the Restore Overdue

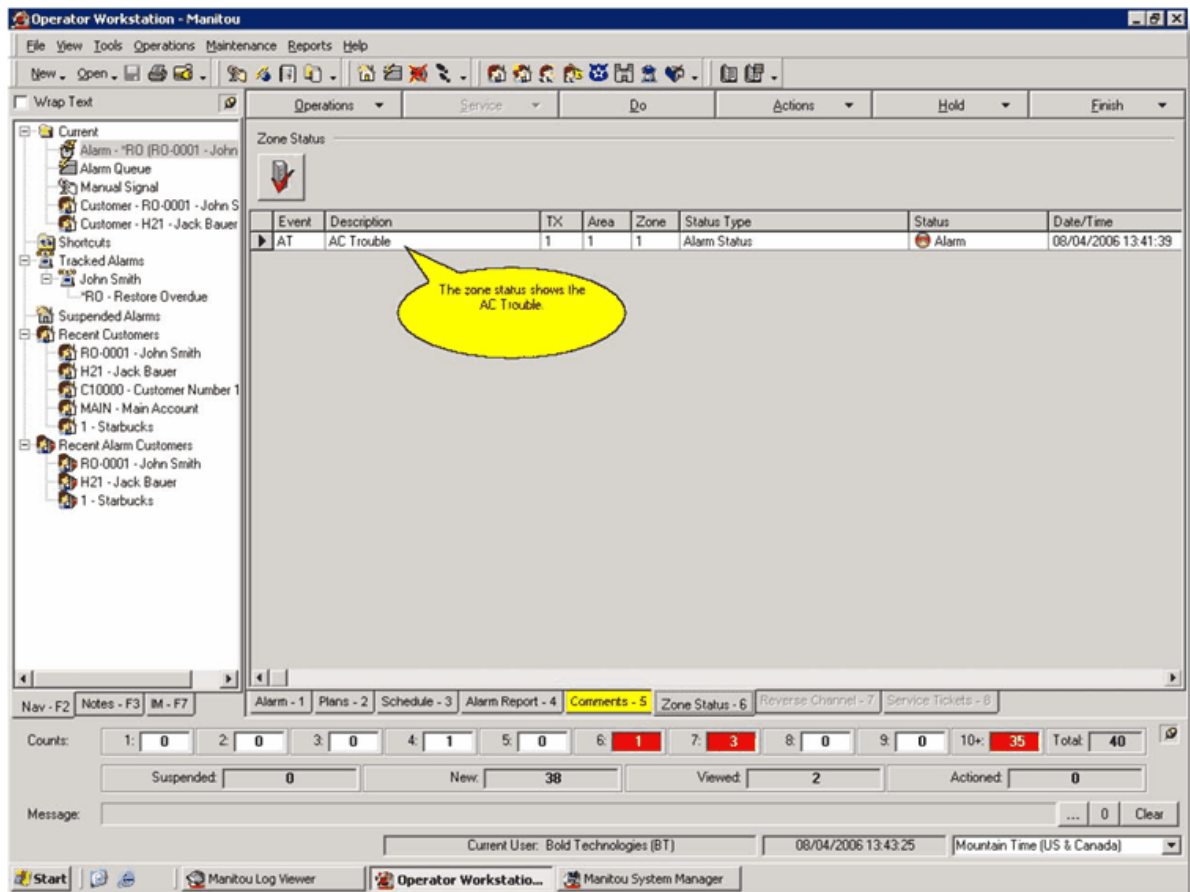
The following screen shots show what an operator should expect with a Restore Overdue:

The screenshot displays the 'Operator Workstation - Manitou' interface. The main window shows an 'Alarm Queue - Monitoring Group 1 (40 Alarms)' table. A yellow callout bubble points to a specific row in the table, indicating a 'Restore Overdue' event.

Time	Pri	Customer ID	Customer	Code	Event	Area	Zone	User	Av
Aug 04, 13:42:41	4	RO-0001	John Smith	*RO	Restore Overdue	1	1		Available
Aug 01, 11:04:11	6	H20	Yanna Argimon in Manitou	*T	Trouble	1		YA	Available
Aug 01, 14:42:16	7		dealer default	*R	Receiver Comms Lost	1			Available
Aug 03, 14:26:15	7		default	*R	Receiver Comms Lost (DUP)	1			Available
Aug 04, 09:07:28	7		default	*R	Receiver Comms Lost (DUP)	1			Available
Jul 21, 16:00:01	10	2001	Zoo Zoo	*LC	Late-To-Close	1			Available
Jul 24, 08:00:02	10	2001	Zoo Zoo	*LO	Late-To-Open	1			Available
Jul 24, 16:00:01	10	2001	Zoo Zoo	*LC	Late-To-Close	1			Available
Jul 25, 08:00:02	10	2001	Zoo Zoo	*LO	Late-To-Open	1			Available
Jul 25, 16:00:02	10	2001	Zoo Zoo	*LC	Late-To-Close	1			Available
Jul 26, 08:00:02	10	2001	Zoo Zoo	*LO	Late-To-Open	1			Available
Jul 26, 16:00:02	10	2001	Zoo Zoo	*LC	Late-To-Close	1			Available
Jul 27, 08:00:01	10	2001	Zoo Zoo	*LO	Late-To-Open	1			Available
Jul 27, 16:00:01	10	2001	Zoo Zoo	*LC	Late-To-Close	1			Available
Jul 28, 08:00:03	10	2001	Zoo Zoo	*LO	Late-To-Open	1			Available
Jul 28, 16:00:00	10	2001	Zoo Zoo	*LC	Late-To-Close	1			Available
Jul 31, 08:00:02	10	2001	Zoo Zoo	*LO	Late-To-Open	1			Available
Jul 31, 16:00:01	10	2001	Zoo Zoo	*LC	Late-To-Close	1			Available
Aug 01, 08:00:02	10	2001	Zoo Zoo	*LO	Late-To-Open	1			Available
Aug 01, 16:00:01	10	2001	Zoo Zoo	*LC	Late-To-Close	1			Available
Aug 01, 17:00:00	10	H21	Jack Bauer	*LC	Late-To-Close	1			Available
Aug 01, 17:00:00	10	H25	Bradford Logan	*LC	Late-To-Close	1			Available

Counts: 1: 0 2: 0 3: 0 4: 1 5: 0 6: 1 7: 3 8: 0 9: 0 10+: 35 Total: 40
 Suspended: 0 New: 39 Viewed: 1 Actioned: 0
 Message: ... 0 Clear
 Current User: Bold Technologies (BT) 08/04/2006 13:42:54 Mountain Time (US & Canada)





Programming at the Transmitter Level

Users can make this programming more global by adding the commands to the Event Programming on the Transmitter Types. Users still need add the option for Generate Restore Overdues to each account. Users will also need to add the transmitter type to each account that you want to have the programming.

UL Required Signal Priorities

Alarm Priorities in Manitou are based on UL requirements as follows:

Priority	Alarm Type
1	Fire
2	Panic or Hold-up
3	Medical
4	Industrial supervision if a danger can result
5	Burglary

Manitou System Configuration

Core Server Components

Manitou is not a single application. It is actually a collection of components working in concert to accomplish the complicated task of central station automation. These components can be Windows applications or Windows services. Collectively they create the *Manitou System*. There are eight core components of Manitou required by every Manitou System.

- Database
- Broker
- Sentry
- Application Server
- Front End Processor (FEP)
- Marshaller
- Signal Handler
- Watchdog

Database

Manitou uses Sybase Adaptive Server Enterprise for data storage. Future versions of Manitou will include support for Microsoft SQL Server.

Broker

The Broker serves as the heart of Manitou. It controls communication between the other components, holds global information, manages alarms tracking and controls record locking.

Sentry

The Sentry controls access to Manitou by validating a users basic access, priority and permissions. The IP address of the server running Sentry is the only published IP address to the system. Upon receiving an authentication request it returns an access token and the IP address of the Application server to the client software. This allows Sentry to load balance between multiple Application servers.

Application Server

The Application Server works on behalf of the client to access the database, apply business rules and cache data.

Front End Processor (FEP)

Each FEP communicates with multiple receivers. Signals are then translated from various incoming formats to a standard format used by Manitou. Each signal is also stored locally on the hard drive. This prevents loss of signals due to failure of other system components.

Marshaller

The Marshaller controls the distribution of signals to the Signal Processor. It ensures that time dependant signals are sent in the correct order, and reports processing times to the Signal Handler.

Signal Handler

The Signal Handler takes incoming signals from the Marshaller and manages proper insertion to the database.

Watchdog

The Hardware Watchdog connects to Manitou to provide audio and visual alerts corresponding with Hardware failure, software failure or predefined system triggers. Hardware Watchdog alerts correspond with the Watchdog messages displayed in the status area of the Manitou Client and Supervisor Workstation. For example, failure of any system-critical component will trigger the hardware watchdog to beep and light one of the three component-related LEDs. Operators use the switch on the front of the hardware Watchdog to reset each time an alert sounds. The fourth LED monitors a constant heartbeat signal between the hardware and software Watchdog components. If that signal is not received on the expected interval, the hardware Watchdog will emit a beep and the fourth LED will light up.

Optional Server Components

Publisher

Manitou's Publisher distributes all information external to the central station. This may include alphanumeric or numeric pages, faxes, email, or printed reports.

Voice Response Terminal (VRT)

Supervisor Workstation

One or more Supervisor Workstations will be required to configure and manage the Manitou System. Supervisor Workstation allows administrator level access to system options. It also receives Watchdog reports and signal handling statistics.

Manitou Client

One Manitou Client will be required for each central station operator as well as any data entry personnel. The Manitou Client provides for data entry and alarm processing.

System Scalability

One of the principal goals of Manitou is scalability of the system. Adding additional hardware enables it to expand from a small single user system to a system capable of handling a Super Central Station. Manitou components can be grouped differently to support systems of different sizes. This means that having to throw away hardware is a thing of the past. If you need more computing power you simply separate a task and put it on its own server.

Sample Configurations

The following examples will illustrate three different base systems. All base systems will include the eight Manitou core components as described in the first section above. Optional server components can be added to any base configuration.

Key

The following abbreviations will be used in all diagrams.

Abbr.	Description
DB	Database Server
AS	Application Server, Sentry, Broker
SH	Signal Handler, Marshaller
RS	Report Server
PU	Publisher
FEP	Front End Processor
WD	Watchdog
VRT	Voice Response
RAS	Web Server, SMTP Mail Server, Microsoft Terminal Services
†	Optional
*	Backup

Non-redundant Base System

Suitable for the small central station or proprietary system, the non-redundant base system is the most basic Manitou configuration (*Fig. 1*). For systems with less than five receiver lines

the FEP may be installed on the Application Server.

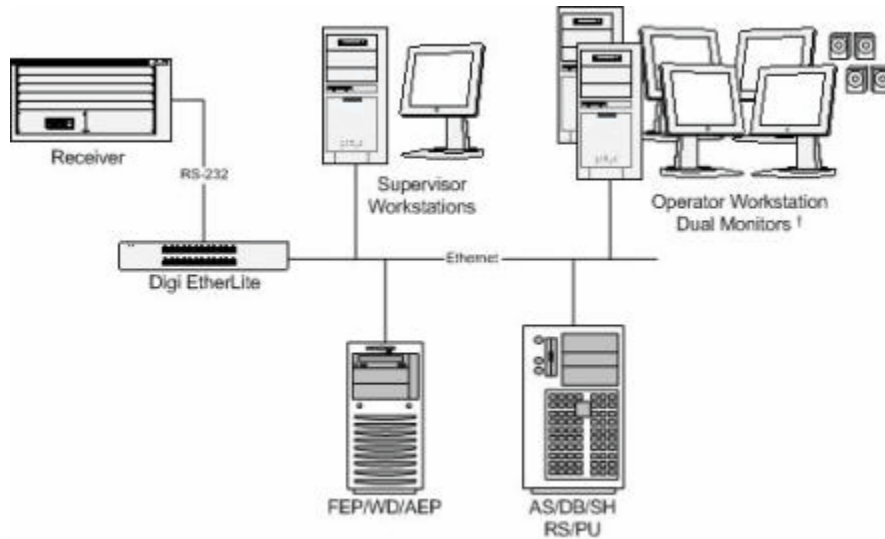


Fig 1

Minimum System Requirements

Application/Database Server

- (1) Intel Pentium III 1GHz processor
- (1) 1GB RAM
- (2) 18GB hard drives with RAID 1
- (1) CDROM drive
- (1) Floppy disk drive
- (2) Redundant power supplies

FEP Server

- (1) Intel Pentium III 500MHz processor
- (1) 256MB RAM
- (1) 20GB IDE hard drive
- (1) CDROM drive
- (1) Floppy drive

Workstations

- (1) Intel Pentium III 500Mhz processor
- (1) 256MB RAM
- (1) 20GB IDE hard drive
- (1) CDROM drive
- (1) Floppy drive
- (1-2) 19" monitor(s)
- (1) Sound Card (SoundBlaster Pro or Compatible)
- (1) Pair PC Speakers

Serial Concentrator

- (1) Digi EtherLite 80 (Provides connections for up to eight receivers)

Ethernet

10/100baseT Ethernet hub with enough ports for each server, workstation and serial concentrator plus room for growth

Cat 5 twisted pair wire to each server, workstation and serial concentrator

Redundant Base System

Manitou is a mission critical system capable of taking full advantage of redundant servers (*Fig 2*). The redundant base system configuration is the solution for larger central stations or those wishing to obtain Underwriters Laboratories (UL) certification.

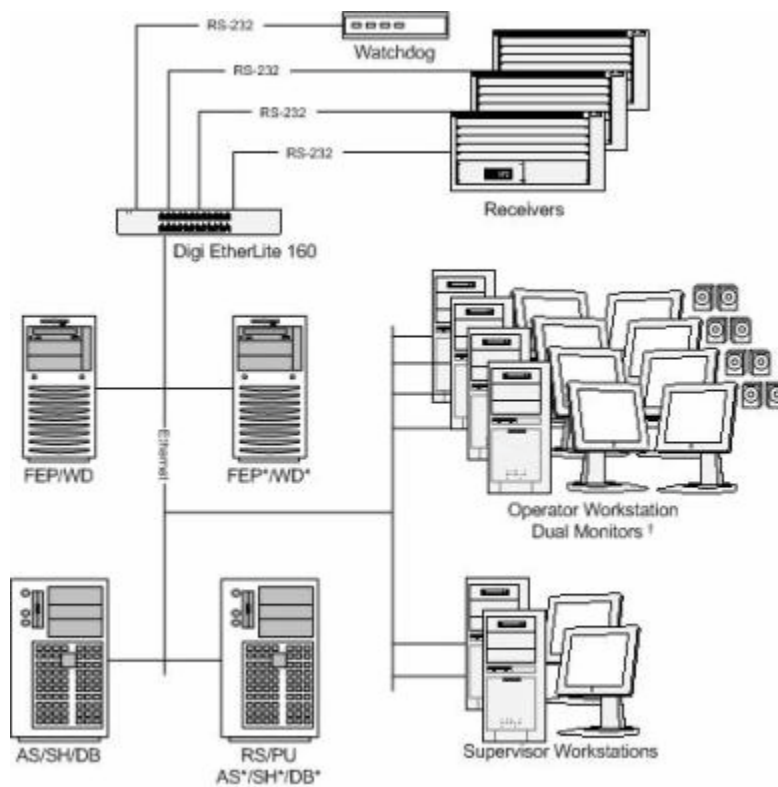


Fig 2

Minimum System Requirements

Application/Database Servers

- (1) Intel Pentium III 1GHz processor
- (1) 1GB RAM
- (3) 18GB hard drives with RAID 5
- (1) CDROM drive
- (1) Floppy disk drive

FEP Servers

- (1) Intel Pentium III 500MHz processor
- (1) 256MB RAM
- (1) 20GB IDE hard drive
- (1) CDROM drive

(1) Floppy drive

Workstations

(1) Intel Pentium III 500Mhz processor

(1) 256MB RAM

(1) 20GB IDE hard drive

(1) CDROM drive

(1) Floppy drive

(1-2) 19" monitor(s)

(1) Sound Card (SoundBlaster Pro or Compatible)

(1) Pair PC Speakers

Serial Concentrator

(1) Digi EtherLite 160 (Provides connections for up to sixteen receivers)

Ethernet

10/100baseT Ethernet switch with enough ports for each server, workstation and serial concentrator plus room for growth

Cat 5 twisted pair wire to each server, workstation and serial concentrator

Expanded Redundant System

As your central station grows Manitou will grow with you. The addition of servers allows you to scale the system smoothly without jeopardizing your existing investment in hardware. Additional application servers can be added to support larger numbers of operator workstations. Placing the database on separate servers allows for greater performance (*Fig 3*). Servers may also be equipped with additional RAM and hard drives to improve performance of an individual server.

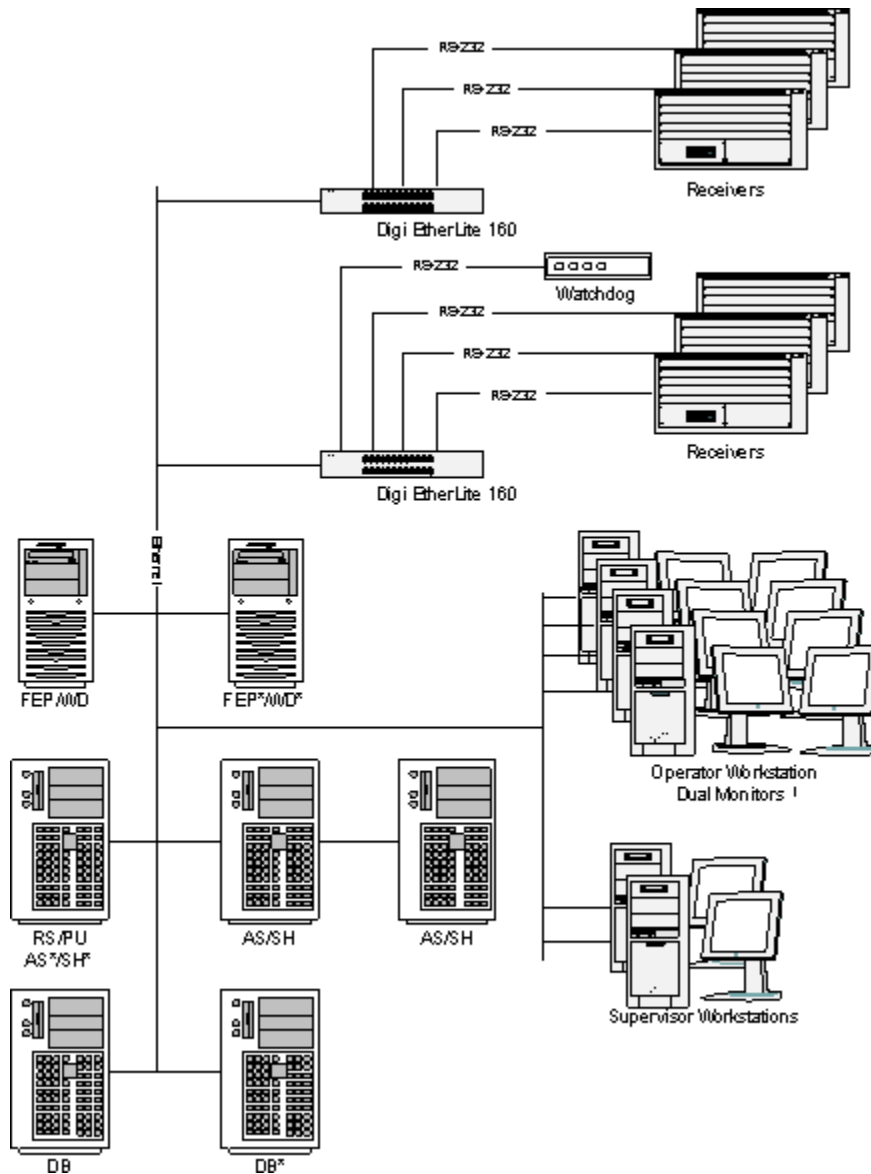


Fig. 3

Minimum System Requirements

Application/Database Servers

- (2) Intel Pentium III 1GHz processor
- (1) 2GB RAM
- (3) 18GB hard drives with RAID 5
- (2) 18GB hard drives with RAID 1 for operating system

(1) CDROM drive

(1) Floppy disk drive

FEP Servers

(1) Intel Pentium III 500MHz processor

(1) 256MB RAM

(1) 20GB IDE hard drive

(1) CDROM drive

(1) Floppy drive

Workstations

(1) Intel Pentium III 500Mhz processor

(1) 256MB RAM

(1) 20GB IDE hard drive

(1) CDROM drive

(1) Floppy drive

(1-2) 19" monitor(s)

(1) Sound Card (SoundBlaster Pro or Compatible)

(1) Pair PC Speakers

Serial Concentrator

(1+) Digi EtherLite 160 (Provides connections for up to sixteen receivers)

Ethernet

10/100baseT Ethernet switches with enough ports for each server, workstation and serial concentrator plus room for growth

Cat 5 twisted pair wire to each server, workstation and serial concentrator

Replication to Multiple Sites

In addition to replicating data between the primary and backup servers, data can be replicated to a remote site for additional protection (*Fig. 4*). Server specifications are the same as for the redundant base system.

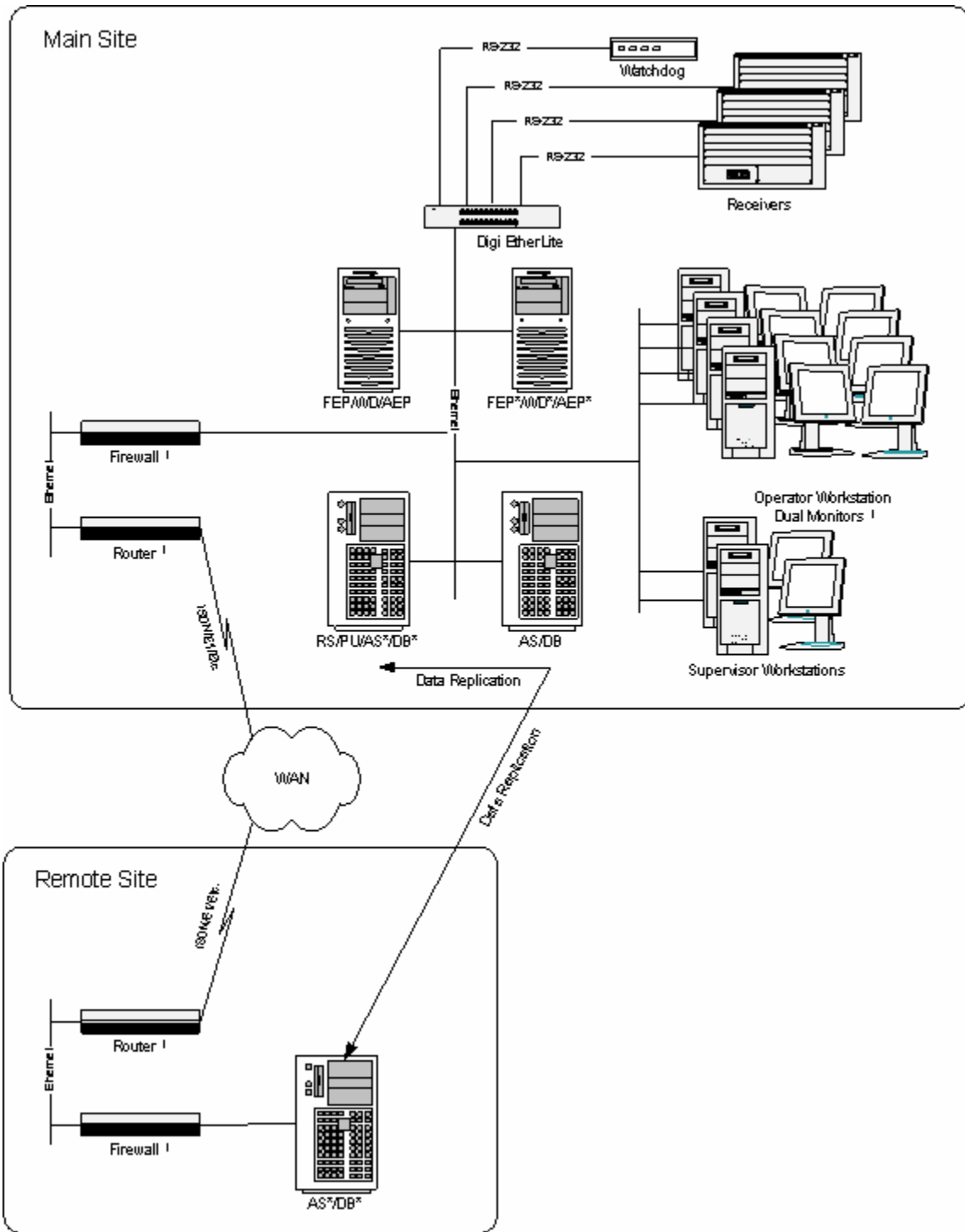


Fig. 4

Replication Switchover Procedure

These procedures will assume a switch from System 1 to System 2 in the case that System 1 is initially the active server. To switch from System 2 to System 1 you must reverse the references to MANAPP1 and MANAPP2 in all instructions.

The following instructions detail the Switchover procedure on a Manitou System in a Sybase database and Sybase Replication Server environment. Procedures for both the Replication Switchover Tool and a Manual Switchover are provided below.

Before beginning the Switchover, stop all connections to the active database, Log out of all clients and stop the services in the MSM. The FEP will buffer signals during the Switchover and therefore does not need to be stopped.

Using the Replication Switchover Tool - RepSwitch.exe

Stop Connections to the Database

1. Open the MSM on the active server (MANAPP1).
2. Right-click on the *Broker* and select *Stop*.
3. Wait for all lights to turn red.
4. Close any open windows (MSM, Logger, LogMonitor.exe)

Switch Database Replication

1. Open the *Replication Switchover* application on MANFEP2.
2. Select the active system from the server list.
3. Click on *Switch*.
4. Wait for the *Switch Complete* message and click *OK*.
5. Click *Who* to verify that no replication services are down. The command prompt window should show the underlined header information, but no additional information should appear under that.
6. Use any key to close the command prompt window.

Start the Other System

1. Open the MSM on the standby server (MANAPP2).
2. Make sure that (System 2) is selected in the drop-down menu at the top of the window.

3. Right-click on the *Broker* and select *Start All*.
4. Double click the *Logger* icon on the desktop.

Switch the FEPs

1. In the MSM right-click on *FEP1* and select *Stop*. Wait for the light to turn red. Then right-click again and select *Start*.
2. Repeat above step for the *FEP 2* service.
3. If applicable, follow the procedures to stop the Demonstration Receiver on MANFEP1.

Finish the Switchover

1. Start the *Publisher* by double-clicking the desktop icon on the new standby server (MANAPP1).
2. Confirm that operators can log in from each workstation.
3. Verify that the system is receiving and processing signals.

Manual Switchover Procedure

The manual Replication Switchover procedure below includes all steps necessary to to make the active database the standby and the standby database the new active database without having to use the RepSwitch.exe tool.

1. Use Sql Advantage and connect to the active database server and the active database, for example:

MANAPP1 and MANITOU

2. Run the following sql command to stop the replication agent running against the active database:

```
sp_stop_rep_agent MANITOU
```

3. Select Start>>Run and type in **cmd** to bring up a command prompt window.
4. Within the command prompt window, log into the replication server with the following command:

```
Isql -S NTREPSERV -U sa <ENTER>
```

5. The password is blank so hit <ENTER> again
6. At the prompt type in the switch command:

Switch active for MANREP.MANITOU to MANAPPBACK.MANITOU <ENTER> **GO**
<ENTER>

7. A message will appear that the system is in the process of switching the connection.
8. Next, type in the following command to tell the replication agent to wait (suspending replication) until the standby database (formerly the active database) is back on line:
wait for switch for MANREP.MANITOU <ENTER>
9. GO <ENTER>
10. Use Sql Advantage and connect to the new active database server and the active database for example:

MANAPP2 and MANITOU

11. Run the following sql command to start the replication agent for the new active database:

```
sp_start_rep_agent MANITOU
```

12. Return to the command prompt window still logged into the replication server. Type in the following command:

```
resume connection to MANAPPSERV.MANITOU <ENTER>
```

13. GO <ENTER>

14. Next, check the status of the Replication server by using the following command in the command prompt window:

```
Admin who_is_down <ENTER>
```

```
GO <ENTER>
```

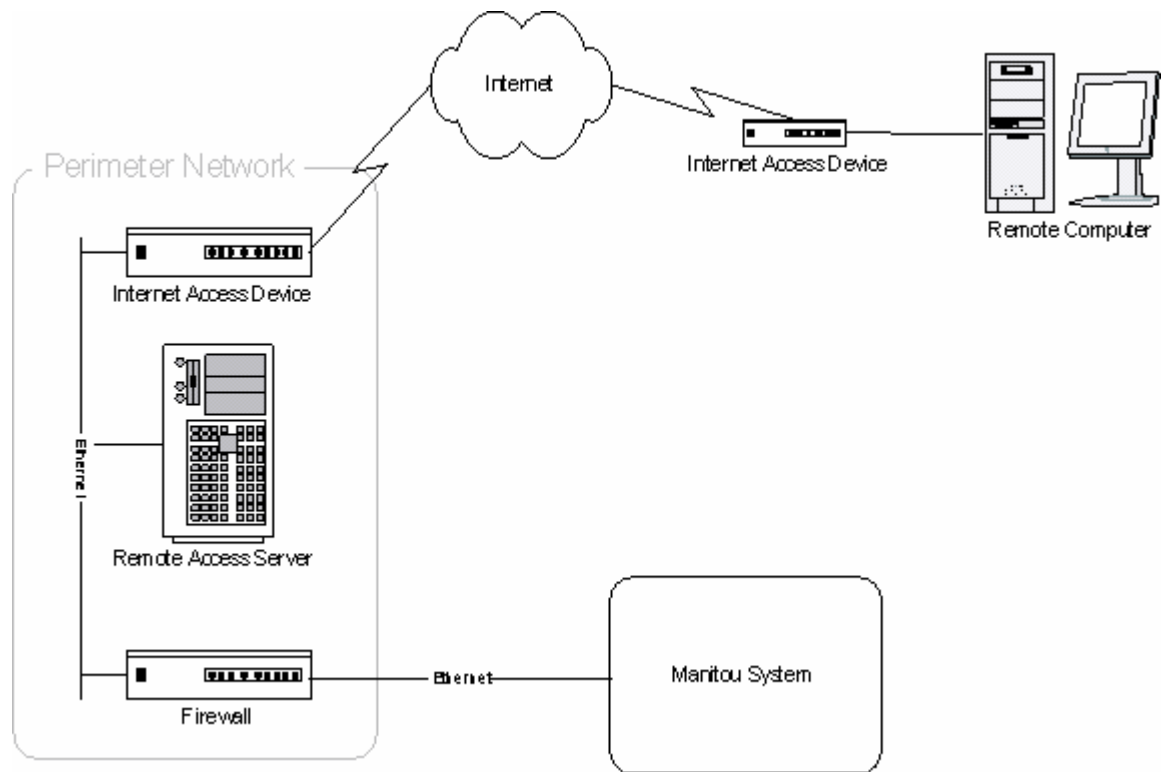
There should be nothing but the header lines. This means that replication is up and active. The services in the MSM on the new active server can be started, and clients may reconnect.

Manitou Remote Access

Remote access to Manitou through the Internet must be properly configured to provide adequate safety of the data.

- The remote access server should be isolated from the rest of the Manitou system in a perimeter network (DMZ) by a hardware based firewall.
- The firewall should be commercially available from a reputable vendor. Examples of an adequate firewall include:

- Cisco PIX
- Checkpoint FW
- SonicWall Pro
- Access rules should be in place on the firewall to prevent any inbound connection other than the necessary TCP ports required by Manitou.
 - These ports should only be accessible only by the remote access server.
 - No inbound access should be available to the Manitou system from the Internet.
- The remote computer should be connected to the Internet by an access device that provides protection from the Internet.
 - At a minimum the device should provide Network Address Translation (NAT) and a private IP address to prevent inbound connection from the Internet.
 - This device may also include full firewall capability.
- The remote computer should be password protected including a password protected screen saver.

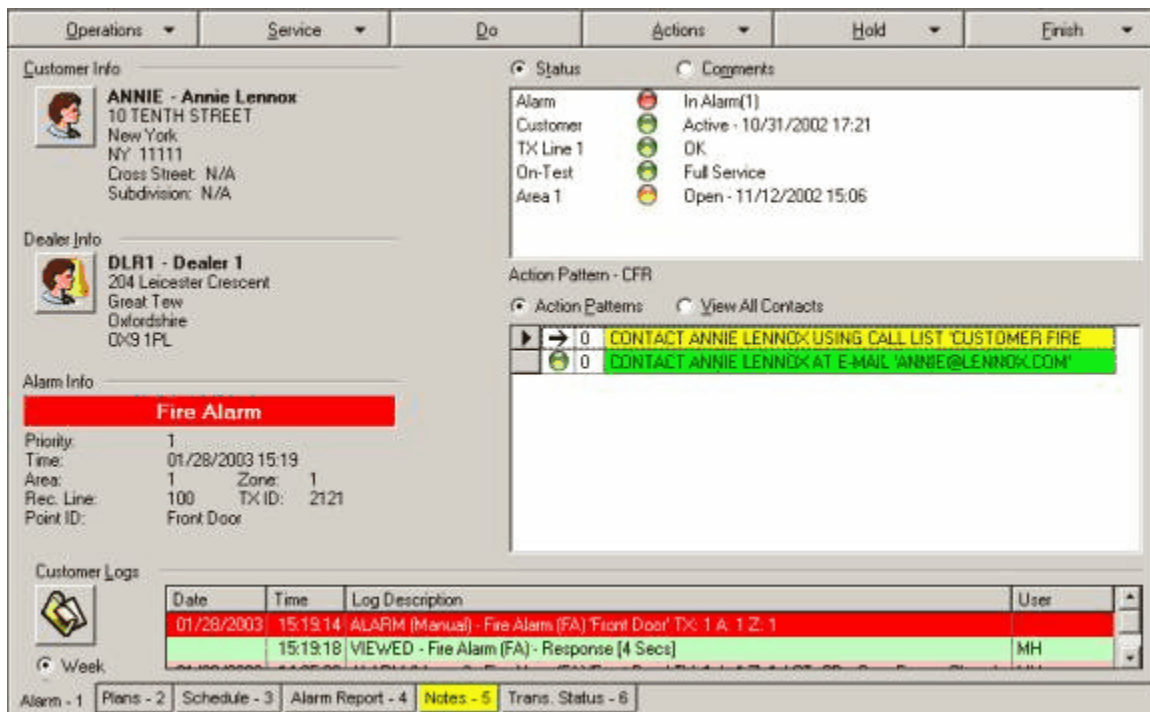


UL Alarm Handling Summary - Operation

LOG IN AND RECEIVE NEW ALARM

An Operator logs into the Manitou Client and brings up the Alarm Handling screen, either by clicking on the icon or by selecting Operations>>Alarm Handling. The “New Alarms”, “Viewed Alarms”, and “Auto-Get Alarms” under “Operations” should already be selected (there are check marks by those options).

A newly arrived alarm appears on screen – for this example, it’s a Fire Alarm.



CHECK STATUS

The Alarm Handling screen shows the customer's current status in the upper right corner. Use the radio buttons to switch between Status and Comments screens. At the very bottom of this pane is a Notes tab that should be checked. If it's yellow, there's a note associated with this customer. To view more customer information, click the other tabs, scroll through the Customer Log for signal details, or click on the Customer Info and/or Dealer info buttons on the left.

PERFORM ACTIONS

The Action Pattern associated with a Fire Alarm for this customer is directly under the Customer information on the Right side of this screen. The first item has an arrow to the left of the line and is ready to be "actioned" – 'Contact customer using Call List 'Customer Fire (CFR)''.

There are three ways to start working on the action:

1. Press the 'd' key on the keyboard (for "do")
2. Use the mouse to select 'Do' from the tool bar.
3. Double-click the first line of the action pattern.

The Operator will use one of these three methods to perform each action within the action pattern list and sub-lists.

Double-Clicking the first item, “Contact customer using Call List Customer Fire (CFR)” opens a sub-list with three items – Contact the customer, contact the Fire Department and contact the primary Keyholder. Double-clicking on the first item opens the Auto-Dialer, connecting Manitou to the phone system, and dialing out to make the first contact. The customer tells the Operator that the Fire Alarm signal was a false alarm, and gives a password to verify this information. Click ‘Finish’ to close the auto-dialer window. Type the customer’s password into the first field, click Enter to validate, and type comments into the text field. Check the boxes for Cancel Alarm and Close Alarm. Use the drop-down fields to select a Resolution Code – in this case ‘FA’ for False Alarm. Click ‘Validated’ and the alarm is closed. All comments are entered into the Customer Log. The Operator is returned to the Alarm Handling screen and is available to receive the next alarm in the queue.

ADDITIONAL INFORMATION

In the above example, the Operator did not need to contact and dispatch the Fire Department or contact the Dealer (the second and third items on the Call List). Instead, the system closed the alarm and recorded the information that it was a False Alarm.

In other situations, where there are multiple contacts to make or actions to perform, each contact will be handled similarly until every contact or action in the action pattern has been completed. If a contact is unavailable or unreachable, the system or the Operator will note that before moving on to the next action. If necessary, the Operator may use the ‘View All Contacts’ radio button (next to Action Patterns) to select other contacts, or get alternate numbers.

Deferred Alarms

If the alarm is not handled within the required time-out period (varies for each alarm type) the system will prompt the operator that the alarm is about to be deferred. A deferred alarm returns to the queue and is forwarded to the next available operator. An operator who is busy may choose to manually defer an alarm, to allow another Operator to handle it.

Suspended Alarms

An operator may also choose to suspend an alarm, if necessary while performing other tasks. Selecting Hold>>Suspend brings up a prompt box. The operator selects the time period for which the alarm will be suspended. When that time expires, the system prompts the Operator again to handle that alarm.

Index

- A -

access cards 167
access control 167
Action Patterns 58, 182
Actions Menu 59
Add New Customer 98
Address 100
agencies 172
Alarm Count 38
Alarm Handling 52
Alarm Handling Options 58
Alarm Queue 66
Alarm Queue Filter 73
Alarm Toolbar 70
Alternate Schedule 154
Areas and Zones 119
Attentions 179
authorities 175
Auto Get Alarms 55
Auto-Dialer 48

- B -

branch 174

- C -

Call List 176
card ID 167
Change Customer ID 47
Change Password 26
Clear 39
Close 24
Close All 24
Color Codes 75
Comments 90, 180
Contact Lists 160
Contacts 161
Counter 39
Customer 97
Customer Activity Log 200
Customer Logs 46

- D -

Date and Time Searches 42
dealers 172
Defer 56
Defer to Auto-Client 57
Delete 25
Deleted Customers 220
Details 101
Disaster Mode 93

- E -

Edit 24
E-mail 104
Event Maps 39
Exit 28

- F -

FEP List 44
FEP Manual Signal 46
File Menu 23
Filter Log 41
Finish Menu 60

- G -

general schedule 280
General Schedules 188
Get Alarm Type 58

- H -

Hold Menu 60
Holiday schedule 156

- I -

Instant Messaging 35

- L -

Lock Station 27

Logout 28

- M -

maintenance issues 204, 250, 282, 295, 309, 330, 336

Maintenance Menu 97

Manual Signal 44

Message Banner 39

Message Display 39

Monitoring Group 75

- N -

Navigator 29

New 23

Notepad 31

- O -

O/C Schedules 152

on test 199

Open 24

Operations Menu 52

Options 105

out of service 58, 85, 199

Out of Service Inquiry 84

- P -

Paged Contacts 58, 83

panel id 167

passback 167

Permits 179

Phone Dialer 48

phone number 103

phone numbers 103

PIN 167

Plans 190

Pre-Cancel 58

Pre-Cancel Alarms 76

Print 25

private 103

Process an Alarm 60

Properties 25

- Q -

quick-launch toolbar 16

- R -

Raw Data Log 42

Refresh 74

Remove Toolbar buttons 16

reports 198

Reverse Channel 91

Reverse Commands 197

- S -

Save 24

Save As 24

Search 41

Services 150

Set Reminders 33

Status 37

Status Bar 14

Suspend 56

System and Query tests 121

System Log 40

- T -

Temporary Schedule 88, 89, 157

Time Zone Searches 42

Toolbars Tab 18

Tools 40

Tools Tab 22

Tracking 57, 58, 77

- U -

User Defined 197

- V -

View Menu 28

- W -

Web 105

- Z -

Zone Status 200