

## SCS-1R Receiver

February 2008

### Version 905 Firmware Update

Effective February 2008, all SCS-1R Receivers are being manufactured with Version 905 (2/13/08) firmware. This version is an update from the Version 904 (2/24/07) firmware previously shipped and contains new features.

### Features

#### Early Morning Ambush

The SCS-1R now receives a separate Early Morning Ambush message (System Message S33) from DMP XR100/XR500 Series Version 200 or higher control panels and sends to Host Automation. Previously, Early Morning Ambush was sent as System Message S15 Ambush. System Message S33 was previously unused.

| LCD Display                | Description  | Host Automation Message |
|----------------------------|--|-------------------------|
| ALARM:<br>EARLY MRN AMBUSH | At disarming, an end-user is indicating a silent alarm because of an emergency situation. This occurs when the end-user does not enter a second user code (PIN) or has not activated the appropriate input device within the programmed number of minutes after disarming. Panel programming allows for this message to be optional. | S33                     |

Note: Older versions of SCS-1R firmware display and print the new S33 Verify message as System Message 33, but send the message to the Host Automation computer as any other system message.

### Updated System Messages

The SCS-1R now supports the following updated system messages.

Note: For XR500 version 200 or higher, the S72 and S73 definition is revised and includes a Path Information field. Please see the SCS-1R Host Output specification Serial 3 System Messages for revised S72 definition.

| LCD Display                  | Description  | Host Automation Message |
|------------------------------|--|-------------------------|
| WARNING:<br>NET/COMM PTH TBL | The panel has not received a proper acknowledgment from the receiver for a path of communication. This message can be sent for any path number (1-8) and any communication type (NET, DD, CID, CELL, 232). This message is sent on a backup path and includes a Path Information field to specify the path that failed to communicate. The restoral for this message is S73. | S72                     |
| NET/COMM PTH RST             | The panel has received a proper acknowledgment from the receiver for a previously failed path of communication. This message can occur for any path number (1-8) and any communication type (NET, DD, CID, CELL, 232). This message is the restore for S72 that contained the Path Information Sub-Message specifying the path that failed.                                  | S73                     |

### CELL Communication Programming

The XR500 Series panel Version 200 or higher now offers CELL as an option for communication programming. If the SCS-1R is programmed to receive messages over the Internet or Network, no further programming is needed to support CELL communication. For information on programming the SCS-1R for Internet or Network, refer to the SCS-1R Installation and Programming guide (LT-0717).



## Message Priority

Messages received by the SCS-1R are now displayed in the following priority:

- Fire Alarms
- Burglary Alarm
- Fire/Supervisory Troubles and Restorals
- Burglary Troubles and Restorals

## Data Overage Suppression

The SCS-1R now supports the Data Overage Suppression Serial 3 System Messages provided in the XR500 Series Version 200 or higher software. The Data Overage Suppression is a safeguard against unexpected high cellular overage charges when using control panels with a communication path programmed as CELL. Once a high volume of CELL traffic causes Data Overage Suppression to be activated in the panel, only a certain volume of alarm messages per hour are sent on CELL paths.

Note: Data Suppression messages (alert, warning, or restoral) do not appear on the keypad, printer, or in the event display of the end-user alarm system.

### 121 ALERT:Cell Data Communication Excessive

#### *CELLULAR DATA OVERAGE NOTIFICATION FEATURE*

| LCD Display  | Description   | Host Automation Message |
|--|---|-------------------------|
| <p style="text-align: center;">ALERT:<br/>DATA EXCESSIVE</p> | <p>The panel has determined that the number of panel messages sent to the receiver in the last hour through a data cellular radio has exceeded 3000 total bytes of data. This message is sent once an hour until the data traffic rate is less than 3000 total bytes of data in the last hour or the data traffic rate exceeds 6000 total bytes of data in the last hour. When the 6000 byte rate is incurred, data limits occur and System Message 122 is sent. The restore message is System Message 125.</p> <p>Note: 3000 bytes of data is approximately 20 messages such as burglar alarms or open/close messages.</p> | <p>S121</p>             |

### 122 WARNING:Cell Data Non-Alarm Suppress

#### *CELLULAR DATA OVERAGE REDUCTION FEATURE*

| LCD Display  | Description  | Host Automation Message |
|--|--|-------------------------|
| <p style="text-align: center;">WARNING:<br/>NON ALM SUPPRESS</p> | <p>The panel has determined that the number of panel messages sent to the receiver in the last hour through a data cellular radio has exceeded 6000 bytes of data. Panel messages sent through the data cellular radio for each hour are now limited to 1000 bytes of data for Fire alarm messages and 1000 bytes of data for non-Fire alarm messages such as Burglary or Panic. All other panel event messages are not attempted to be sent through the data cellular radio.</p> <p>This message is sent once an hour until the panel calculates that in the last hour the possible number of panel messages that should be sent through the data cellular radio is less than 3000 total bytes of data. Data limits are then removed.</p> <p>This message is only sent by the panel after the System Message 121 has been sent. The restore message is System Message 125.</p> <p>Note 1: Panel events are always stored in the panel display event buffer and can be retrieval using remote software.</p> <p>Note 2: 1000 bytes of data is approximately eight fire alarm messages.</p> <p>Note 3: 1000 bytes of data is approximately seven burglar alarm messages.</p> | <p>S122</p>             |

## 123 ALARM:Cell Data Fire Alarm Suppress

### *CELLULAR DATA OVERAGE REDUCTION FEATURE*

| LCD Display                | Description   | Host Automation Message |
|----------------------------|---|-------------------------|
| ALARM:<br>FIRE ALM SUPPRSS | <p>This message is sent to the receiver only after System Message 122 has been sent.</p> <p>The panel is unable to send to the receiver additional Fire Alarm messages through a data cellular radio because 1000 bytes of data for Fire Alarm messages were already sent during this hour. At the end of this hour, the 1000 byte counter is reset and another 1000 bytes for Fire Alarm messages is available for the next hour.</p> <p>All data limits are removed when the panel calculates that in the last hour the possible number of panel messages that should be sent through the data cellular radio is less than 3000 total bytes of data. The restore message is System Message 125.</p> <p>Note: 1000 bytes of data is approximately eight fire alarm messages.</p> | S123                    |

## 124 ALARM:Cell Data Non-Fire Alarm Suppress

### *CELLULAR DATA OVERAGE REDUCTION FEATURE*

| LCD Display                | Description   | Host Automation Message |
|----------------------------|---|-------------------------|
| ALARM:<br>NON FIRE SUPPRES | <p>This message is sent to the receiver only after System Message 122 has been sent.</p> <p>The panel is unable to send to the receiver additional non-Fire Alarm messages such as Burglary and Panic through a data cellular radio because 1000 bytes of data for non-Fire Alarm messages were already sent during this hour. At the end of this hour, the 1000 byte counter is reset and another 1000 bytes for non-Fire Alarm messages is available for the next hour.</p> <p>All data limits are removed when the panel calculates that in the last hour the possible number of panel messages that should be sent through the data cellular radio is less than 3000 total bytes of data. The restore message is System Message 125.</p> <p>Note: 1000 bytes of data is approximately seven burglar alarm messages.</p> | S124                    |

## 125 Cell Data Communication Fully Restored

### *CELLULAR DATA OVERAGE NOTIFICATION FEATURE*

| LCD Display      | Description  | Host Automation Message |
|------------------|--|-------------------------|
| COMM FULLY RSTRD | <p>The panel has determined that in the last hour the number of panel messages that are sent to the receiver through a data cellular radio was less than 3000 bytes of data. This message is the restore message for System Messages 121, 122, 123, 124 and is only sent once.</p> | S125                    |

## Upgrading/Ordering New Firmware

SCS-1R Version 905 firmware PROMs may be obtained from [buy.dmp.com](http://buy.dmp.com) or by calling DMP Customer Service at 1-800-641-4282 and ordering the SCS1R/UPDATE.

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