



NAPCO[®]

333 Bayview Avenue
Amityville, New York 11701
For Sales and Repairs, (800) 645-9445
For Technical Service, (800) 645-9440

(Note: Technical Service is for security professionals only)
Publicly traded on NASDAQ Symbol: NSSC

© NAPCO 2012

SL^e-GSM Radio Reporting & Quickloader 6.1 Setup and Configuration Instructions

WI1974B 04/12

Before powering up the radio, you must:

1. Be an active NAPCO StarLink dealer (SL-1 series or SL^e series) and have a StarLink account. If you are not a registered StarLink dealer, go the StarLink Radio Management Center (SRMC) at www.napconoc.com and click the link to become a new StarLink registered dealer.
2. The radio ID# that came with your radio must be registered in your account. At www.napconoc.com, click the link to register the radio and select your data plan. No reporting or programming information is required

INTRODUCTION

The default settings of the SL^e-GSM radio allow the radio to be attached to a NAPCO (or non-NAPCO) alarm control panel and report alarms to the central station programmed into the alarm panel without any additional programming of the radio or the NAPCO website. The SL^e-GSM Radio sends its signals to the NAPCO Network Operations Center (NOC) and these signals are processed using the data captured by the radio from the alarm control panel. The NOC, which is accessible from the Internet using a web browser, provides dealer access to the StarLink Radio Management Center (SRMC) and includes features the dealer may want to make use of, including the ability to change the way the radio's programmable inputs and outputs work, reporting properties, messaging, logging, radio status, etc.

The SL^e-GSM radio and NOC provide a complete transmission path and return receipt service ("kiss off") to ensure your alarm control panel knows that the alarm is delivered. The process is simple: The radio captures the alarm from the panel and then "kisses off" the panel. The alarm is routed to your central station and waits for the CS kiss off. The kiss off is routed back to the radio, which is waiting for the return receipt. When the receipt arrives, the radio clears the alarm from its memory and the process is done. If the receipt is not received within a predetermined period, the radio re-transmits the alarm. If the receipt is still not received, then the Fail to Communicate PGM output on the radio is activated which can be read by the control panel and reported to the panel's keypad display.

AUTO ENROLLING

Auto enrolling is a feature that allows an installer to simply connect a registered radio to an alarm panel, turn on power and send an alarm to a third party central station without any programming of the NAPCO NOC. This section describes how to auto enroll the radio and report the first alarm. The radio has the following defaults automatically programmed:

- a. Works with Contact ID or 4/2 automatically.
- b. Has a default 30 day GSM radio check-in supervisory time out.
- c. Will send a check-in to the NOC every 30 days.
- d. Radio PGM output 1 is programmed to be normally low and will go open collector high if ANY troubles are detected by the radio. These include: Low battery, line cut, fail to communicate, etc.
- e. Radio PGM output 2 is programmed to be normally open collector and will go low if the radio fails to receive a kiss off.
- f. Radio PGM output 3 is programmed to be normally open collector and will go low if the radio detects Telco Line Cut (backup mode).
- g. Radio jumpers are set for PRIMARY mode – means there is no telephone line available – panel connects to the radio only.

Procedure:

1. Program your alarm control panel to report to the central station of your choice using Telco reporting. Be sure to program your central station account number and CS Receiver Telephone number in the alarm control panel including a (1) prefix (if supported) and a 10 digit phone number.
2. Connect power and the Tip/Ring to the radio as described in the Quick Start Guide (WI1972) or WI1936.
3. Power up the panel and radio and wait until the green LED in the lower right corner blinks a repeating pattern. Is the blink rate at least a 4? (**Note:** A blink rate of 3 may work if the cell tower does not vary much). If so, you

- have adequate signal strength and are on-line.
- Send a signal of any kind from the alarm panel. The radio will capture the CS telephone number, the CS account number, format and alarm information and will send it to the NOC. The alarm will be forwarded to the CS telephone number captured. The NOC will remember the CS telephone number, the CS account number and format and save it for future use (see 5 below).
 - The radio will automatically send GSM check-in signals to the NOC; however, if the NOC does not receive a check-in within a 30 day period, a Supervisory signal will be transmitted to the CS using the information captured in (4) above. It will report as a Contact ID E356 or a 99 for 4/2. More frequent check-in intervals are available by modifying the configuration on-line at www.napconoc.com.

That's it! – This is all that is needed to send alarms to a central station. **The radio will always use the telephone number, account number and format captured for each subsequent alarm to report that alarm.** So if the control panel is programmed to have alarms going to one telephone number and has duplicate reporting going to a second telephone number, they will each go as programmed in the panel. Should the need arise to send a supervisory signal to alert the CS that the radio has not been heard from in any 30 day period, a signal will be sent to the CS using the CS telephone number, the CS account number and format captured during transmission of the very first alarm. To change or reset this information, simply go to the NOC website at www.napconoc.com.

PANEL UPLOADING / DOWNLOADING

NAPCO control panels that support TCP/IP reporting (GEM-P816, GEM-P1632, GEM-P1664 with Version 30+ firmware, or GEM-3200, GEM-P9600, GEM-X255 with Version 50+, or GEMC C-Series control panels) can be uploaded or downloaded using NAPCO Quickloader version 6.1 or later via the SL^e-GSM radio. At the end of this document is a quick primer on differences between the release version of Quickloader and the new features that support the SL^e-GSM GPRS radio. **YOU MUST CONNECT A DOWNLOAD CABLE BETWEEN THE PANEL DATA JACK AND THE RJ CONNECTOR ON THE RADIO IF YOU WANT TO DOWNLOAD OR UPLOAD THE PANEL.** **Note:** Use the SLe-DLEXT Download Extender Module (must be mounted within the control panel enclosure) when the SLe-GSM radio is mounted more than 6 feet from the control panel. See WI1950 for more information.

NOC PROGRAMMING OPTIONS

To verify programming, make changes to the radio or how it reports, visit the website at www.napconoc.com. The following describes the basic setup and logging screens. **Note:** The radio ID#, username and password provided by NAPCO Customer Service is required to access the NOC.

Log in to the NOC by entering the username and password provided. The website uses Microsoft[®] Silverlight[™]. The website will check to see if Silverlight is installed, and will prompt to automatically install if not found. There is nothing to configure; Silverlight just installs as long as you click **Yes** to the prompts requesting permission to install if they appear.

The screenshot displays the 'STARLINK RADIO MANAGEMENT CENTER' website. At the top, there is a red navigation bar with a 'Home' button. Below the navigation bar, there are three links: 'Are you looking to manage your SL1 or SL1-FD series radio? [Click Here](#)', 'If you are not a registered starlink dealer, and would like to become one, please [Click Here](#)', and 'If you want to activate a new SLe series radio in your account [Click Here](#)'. The main content area is titled 'STARLINK CUSTOMER LOGIN' and contains the instruction 'Please enter your username and password.' Below this is a form with two input fields: 'Username:' and 'Password:'. At the bottom of the form is a 'Log In' button. The version number 'UI 0.8, IA 0.1, SS 0.1' is displayed at the bottom left of the form area.

After log on, the main programming screen appears:

Your company information should appear in the CUSTOMER (dealer) fields at the upper left (this text is NOT editable). You can display all the radios in your account by clicking the **Display Radio Summary** button or display one radio by directly entering the RADIO ID# in one of the fields on the left. If the Radio ID was registered using the link provided at www.napconoc.com, the SIM in the radio is automatically activated. Type a Radio ID# into the **View/Edit Radio Prog** field and press **ENTER** on your keyboard.

This is the Main Radio Programming Screen and it has (3) tabs – **General**, **Inputs/Outputs** and **Advanced**. The **General** tab is detailed below.

Some basic information about the radio is shown under **RADIO INFORMATION**. The **Status** should read "**Device Running Properly...**" if the radio has been activated. To the right is **SUBSCRIBER INFORMATION**. These locations are provided for the dealer's convenience to keep track of the installation location and owner. The **Contact Name** will appear on some summary screens for convenience. To enter data, click the **EDIT** button at the bottom of the screen; enter the new data, then click **SAVE**.

Next, note the two boxes, yellow and tan. The yellow box at left is the captured **AUTO ENROLL PROGRAMMING** data (when the first signal was sent, the system remembered this data and saves it for future use). The **AUTO ENROLL PROGRAMMING ON/OFF** radio button has a "dot" in it to indicate that AUTO ENROLL PROGRAMMING (AEP) programming is being used. If you need to change the data and still want to use the auto enroll feature, click **EDIT**, **RESET AUTO-ENROLL** and **SAVE** and the data will be cleared. When a new signal is sent, the new data will be shown after pressing the **REFRESH** button (at bottom right). The **UPLOAD** button is used to ensure that the StarLink Radio Management Center (SRMC) has the latest radio configuration data. This is rarely needed but the **UPLOAD** button should be clicked the first time a radio is to be managed by the SRMC.

Dealers have the option to change the reporting telephone numbers, account numbers and supervisory timeout durations at any time by entering alternate information in the tan colored **DEALER ENTERED PROGRAMMING (DEP)** box. The SRMC will use the data in which ever box has the radio button enabled. Details of the DEP box are described below:

DEALER ENTERED PROGRAMMING - ON/OFF:

<u>First Report</u>	Tel #	CS Acct #
Primary CS Receiver: 1 (631) 123 - 4567	0816	
Backup CS Receiver: 1 () - -		
<u>Duplicate Report</u>		
Primary CS Receiver: 1 () - -		
Backup CS Receiver: 1 () - -		
Format for Reporting Radio Supv. Signal:	Contact ID ▾	
Supv Timeout: 30 Days ▾	Supv Heartbeat: 30 Days ▾	

If a telephone number and account number are typed into the fields for **Primary CS Receiver** and the **DEALER ENTERED PROGRAMMING ON/OFF** radio button is enabled, then regardless of what telephone number or account number the alarm panel dials, the **DEALER ENTERED PROGRAMMING** box values will be used. Both a **Tel #** and **CS Acct #** must be entered in the fields, otherwise the **SAVE** button remains disabled. If backup or duplicate reports are to be sent, enter that data as well.

The **Supv Timeout** setting determines how long the SRMC will wait for a radio check-in packet after which, if not received, will send a Supervisory signal to the CS listed in the AEP or DEP programming boxes. The **Supv Timeout** must be greater than or equal to the **Supv Heartbeat**. Heartbeats shorter than 30 days require an appropriate data plan.

Supv Timeout: 24 Hrs ▾ 4 Hrs 8 Hrs 16 Hrs 24 Hrs 48 Hrs 7 Days 30 Days	Supv Heartbeat: 24 Hrs ▾ 2 Hrs 4 Hrs 8 Hrs 12 Hrs 24 Hrs 7 Days 30 Days
--	---

Note: Alarm panel generated Test Timers are reportable signals and are forwarded to the Central Station. Radio "Check-

in's" are dead-ended at the NOC (meaning they are not sent to the central station but are tracked by the SRMC). If they are not received within the supervisory time window, then the SRMC sends a Supervisory Signal to the Central Station.

The SRMC also has the ability to send emails and text messages to Dealers and/or Customers. This is only available if supported by your data plan.

**DEALER and/or
CUSTOMER
NOTIFICATIONS**

O/C Alarms Tbl Supv Other										
Email to:	AlarmService@gmail.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Test Email
Email to:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test Email
Email to:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test Email
Text Msg to:	6311234567	Nextel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Test SMS
Text Msg to:		Verizon	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Test SMS

If a customer wishes to receive an email whenever their alarm system is opened, closed (O/C) or has an Alarm, Trouble or Supervisory, click **EDIT**, enter their email address and check the appropriate checkboxes for the signals desired. Repeat for text messages, then click **SAVE**. To verify the correct email addresses were added, test the email or text message service by clicking on the appropriate **TEST Email** or **TEST SMS** button. Be sure the alarm panel is programmed to report O/C, alarms, troubles or Supervisory signals if email or text messages are desired. The OTHER category is for alarms which are not recognized by the NOC as an O/C, Alarm, Trouble or Supervisory. Note this feature requires selection of an appropriate data plan.

Next is the **Input/Outputs** tab. This is used to change the programming of the I/O from its **default** settings, which are:

- Radio PGM output 1 is programmed to be normally low and will go open collector/high if ANY troubles are detected by the radio. These include: low battery, line cut, fail to communicate, etc.
- Radio PGM output 2 is programmed to be normally open collector/high and will go low if the radio fails to receive a kiss off.
- Radio PGM output 3 is programmed to be normally open collector/high and will go low if the radio detects Telco Line Cut (backup mode).

Click the **Input/Outputs** tab.

STARLINK RADIO MANAGEMENT CENTER
Welcome mcdealer ! [Log Out]

Home
Signal Log
Edit History
Checkins
Radio Programming

WELCOME: NAPCO Test Dealer

General
Inputs/Outputs
Advanced

RADIO INFORMATION

Radio ID# 3011263
ICC ID# 8901260761213336624F
Status: Device Running Properly...
On-Line Date: 3/14/2011 11:07:56 AM
Dealer ID: NAP0000
Dealer Co. Name: NAPCO Test Dealer

Radio Inputs Configuration

Reporting Format: Contact ID

Input #	Function	Description	Contact ID Event #	Contact ID Zone #	Contact ID Event #	Contact ID Zone #	Contact ID Event #	Contact ID Zone #
(IN 1)	Smart Channel Fire/B	FIRE	110	990	130	991	162	998
(IN 2)	User Defined		120	992				
(IN 3)	User Defined		300	993				

Radio Outputs Configuration

(PGM 1)	Trouble output	<input checked="" type="checkbox"/> Low Voltage <input checked="" type="checkbox"/> Shutdown	<input checked="" type="checkbox"/> Low Battery <input checked="" type="checkbox"/> Telco Line-Cut	<input checked="" type="checkbox"/> Fail to Communicate <input checked="" type="checkbox"/> Fail to check-in	<input checked="" type="checkbox"/> GPRS network trouble <input checked="" type="checkbox"/> Reporting/Downloading Disable
(PGM 2)	Trouble output	<input type="checkbox"/> Low Voltage <input type="checkbox"/> Shutdown	<input type="checkbox"/> Low Battery <input type="checkbox"/> Telco Line-Cut	<input checked="" type="checkbox"/> Fail to Communicate <input type="checkbox"/> Fail to check-in	<input type="checkbox"/> GPRS network trouble <input type="checkbox"/> Reporting/Downloading Disable
(PGM 3)	Trouble output	<input type="checkbox"/> Low Voltage <input type="checkbox"/> Shutdown	<input type="checkbox"/> Low Battery <input checked="" type="checkbox"/> Telco Line-Cut	<input type="checkbox"/> Fail to Communicate <input type="checkbox"/> Fail to check-in	<input type="checkbox"/> GPRS network trouble <input type="checkbox"/> Reporting/Downloading Disable

Remote Arm/Disarm

Keyswitch Type: Momentary

Input Used to report Armed Status?

Get Armed Staus?

Arm/Disarm Panel

Panel Is: Disarmed

Radio Inputs Configuration

The next section is the **Radio Inputs Configuration**. First, select the reporting format required by your central station from the **Reporting Format** pull-down list. Next note the **IN 1**, **IN 2** and **IN 3** pull-downs have three choices as shown below.

Input #	Function	Description	Contact ID			Contact ID			Contact ID					
			Event #	Zone #		Event #	Zone #		Event #	Zone #				
(IN 1)	Smart Channel Fire/B	Bell Inout	FIRE	110	990	Y	BURG	130	991	A	CO	162	998	Y
(IN 2)	Armed Status from Panel			120	992	Y								
(IN 3)	User Defined	Your label		300	993	Y								

Smart Channel Fire/Burg

This feature is only supported on **IN1**. For this selection to be used, the **IN 1** input must be connected to the bell output of the control panel. The radio will monitor the bell circuit to detect a Fire cadence, a Burg Cadence or a CO (Carbon Monoxide) cadence. Upon detecting a Fire, Burg or CO signal, the radio will report to the SRMC which signal type was detected. The SRMC will report the signal using the format selected and code entered for each of the alarm types. The pull-down after each alarm type permits that item to be enabled (Y), disabled (N) or have an abort delay of 16 seconds (A). The abort delay duration is a globally programmable option – see Advanced tab.

Armed Status From Panel

For this selection to be used, the input must be connected to armed status output lug of the panel and the panel programmed to enable or disable an output based on the armed state of the panel. When configured in this way, the system can be used to signal to the radio the actual status of the control panel. This control panel status can then be displayed on the SRMC screen, or in the future on NAPCO Customer Control screens.

User Defined

This selection allows the input to be used to sense a signal from whatever input device is connected. When the input is triggered, the code entered will be reported. Note: The radio can be used to monitor equipment and systems without the need for any alarm panel to be connected.

Radio Outputs Configuration

Next is a review of the **Radio Outputs Configuration**. Note the **PGM 1**, **PGM 2** and **PGM 3** pull-downs each have four selections, three of which are shown below (the fourth is **Ring-Back**).

Trouble Output

This selection allows the PGM to change state when any of the troubles that are checked occur. **Note: PGM 1** is a special PGM that is normally low and will go open collector/high if there is a trouble. **PGM 2** and **PGM 3** work in reverse (normally open collector and go low when activated).

Remote Control Output

This selection allows the PGM to change state when the green **ACTIVE LOW PGM** or red **OPEN COLLECTOR / HIGH PGM** buttons are clicked. Again, note that **PGM 1** is a special PGM that is normally low and will go open collector/high if activated. **PGM 2** and **PGM 3** work in reverse (normally open collector and go low when activated). These outputs can be used to control equipment or panel features; currently, access to control these outputs is allowed only from the NAPCO SRMC Dealer Account, and will be controllable in the future in NAPCO Customer Control screens. This feature requires an appropriate data plan.

Remote Arm/Disarm Output

This selection allows the PGM to momentarily change state when the white **ARM/DISARM** button is clicked. **PGM 2** and **PGM 3** work in reverse (normally open collector and go low when activated). Currently, these outputs can be controlled only from the NAPCO SRMC Dealer Account, and will be controllable in the future in NAPCO Customer Control screens. This feature requires an appropriate data plan.

Remote Arm/Disarm

Any alarm control panel with a keyswitch arming input and an armed status lug output can be remotely armed and/or disarmed with real time feedback of the panel status by using an input and output from the radio. The dealer can install and test this functionality using the **Remote Arm/Disarm** tool (detailed below). When the NAPCO Customer Control screens are available in the future, customers will be able to control their alarm system remotely. This feature requires an appropriate data plan.

Remote Arm/Disarm

Output Used to Keyswitch Arm? PGM 3

Keyswitch Type: Momentary

Input Used to report Armed Status? IN 3

Get Armed Staus?

Get Status

Panel Is: Disarmed

Arm/Disarm Panel

ARM/DISARM

The **Advanced** tab is shown below:

STARLINK RADIO MANAGEMENT CENTER
Welcome mcdealer ! [[Log Out](#)]

Home Signal Log Edit History Checkins Back
Radio Programming

WELCOME: NAPCO Test Dealer

General
Inputs/Outputs
Advanced

RADIO INFORMATION

Radio ID# 3011263
ICC ID# 8901260761213336624F
Status: Device Running Properly...
On-Line Date: 3/14/2011 11:07:56 AM
Dealer ID: NAP0000
Dealer Co. Name: NAPCO Test Dealer

ADVANCED FEATURE CONFIGURATION

Reboot Radio: Don't Reboot Reboot Normal Reboot with Default

	Contact ID	Contact ID	Zone #	
Event #	Event #	Event #	Event #	
Monitor Voltage Report:	302	994	A	Installation Dialing Plan: 0T
Tamper Report:	341	995	Y	Abort Delay Time: 16
Reboot Report:	625	997	Y	Telco # for reporting tamper/linecut/parallel inputs: 9999999999
Land Line (Telco) Cut Report:	352	996	Y	Subscriber Account Number: 624F
				PC Security Code: 000 000 000

Create Linecut at Control Panel

Duration (in Minute): 6

Trouble:

<input type="checkbox"/> Low Voltage	<input type="checkbox"/> Low Battery
<input type="checkbox"/> Fail to Communicate	<input type="checkbox"/> GPRS network trouble
<input type="checkbox"/> Shutdown	<input type="checkbox"/> Telco Line-Cut
<input type="checkbox"/> Fail to check-in	<input type="checkbox"/> Reporting/Downloading Disable

EDIT
CANCEL
SAVE
REFRESH
UPLOAD

Except for the **PC Security Code** fields, the **Advanced** tab may not be needed. Below is a short description of each feature:

Reboot – Forces a reboot of the radio. This should only be done if it is believed the radio is having a problem. Any unsent pending alarms will be cleared but programming remains unchanged.

Reboot with Default – Same as reboot except the radio defaulted to factory settings (i.e. Cold Start)

Monitor / Tamper / Reboot / Line Cut - The section allows for changing the default point ID codes and Zone Numbers used for reporting the listed signals. The dropdown following each line allows for the choice of: A = Abort Delay, Y = Enabled, N= Disabled.

Create Line Cut at Control Panel – This feature causes the radio to turn off the Telco Voltage supplied on the phone line connected to the Alarm Panel so that the Alarm Panel, which has been programmed to detect LINE CUT, can locally report one or more of the selected Troubles. The duration field defines the length of time the alarm panel keeps the Telco Voltage low. **NOTE: The alarm panel will be unable to report alarms to the radio during this period therefore if this feature is to be used, select the shortest possible Line Cut detection time for your alarm panel. For example if line cut is detected in 1.5 minutes then select 2 minutes.**

Installation Dialing Plan – If the Alarm Panel and SLe-GSM radio is behind a PBX then the panel is most likely programmed to dial a "9" or some other digit to get an outside line. The radio must know this so that when trying to capture the CS phone number it knows to supply a second dial tone after receipt of the "9". This field has a two-digit entry. The first position defines the digit to look for and the second defines what to do if that digit is identified. The default is 0T (number 0 and letter T), which means supply dial tone once when off hook. A 9T would mean provide a second dial tone after receipt of a "9". If the second digit is a "W" instead of a "T", it means wait up to 45 seconds after the digit is detected to look for a second digit, but no second dial tone is provided.

Abort Delay – This time provides a delay, in seconds, after a condition is detected by the module before it is reported to the Central Station. If the condition is restored within this window the alarm is not transmitted

Telco # For Reporting ... and Subscriber Number: The telephone number and subscriber account number for reporting Monitor Voltage, Tamper, Reboot, Land Line Cut and Parallel Inputs must be entered in the **Telco #** and **Subscriber Account** fields. The system can be programmed to dead end the reports at the NOC or send them to the CS using the information supplied in these two fields. A "9999999999" means dead end the report at the NOC.

PC Security Code – This entry provides an additional level of security to prevent unauthorized users from gaining access to the radio remotely. Radios are shipped with 0,0,0 and it is up to the installer to enter a new code if desired. Once the new PC code is downloaded it must be used for further communications with the radio. **CAUTION: IF YOU FORGET THIS NUMBER FURTHER COMMUNICATIONS WITH THE RADIO ARE IMPOSSIBLE – NAPCO CANNOT OVERRIDE THIS SETTING REMOTELY – YOU WILL BE REQUIRED TO RETURN THE RADIO TO NAPCO FOR FACTORY PROGRAMMING.**

LOGS

Status logs and reporting information can be found on the **Signal Log**, **Check-in Log** or **Edit History** logs as shown below:

Signal Log

The Signal log displays the date and time reportable signals, troubles and alarms were received at the NOC. It also displays the event data received if the signal was processed without error (marked "OK"); the signal strength of the radio at the time the signal was received, the CS telephone number dialed and the number of attempts the radio made to deliver the signal. Clicking **Detail** will show the step-by-step process used to handle this particular alarm signal. For each signal the radio delivers to the NOC, the SRMC will try 8 times to reach the Central Station programmed. If the radio does not receive a kiss off, it will re-transmit the alarm and show a "2" in the log. After (another) 8 unsuccessful tries by the SRMC to contact the central station, the radio will then output a "Fail to Communicate" signal.

STARLINK RADIO MANAGEMENT CENTER							Welcome mcdealer ! [Log Out]
Home	Radio Programming	Edit History	Checkins	Back	Radio ID# 3011173		Signal Log
Start Date:	<input type="text" value="5/23/2011"/>	End Date:	<input type="text" value="6/2/2011"/>	<input type="button" value="Search"/>	Refresh Next		
Server Timestamp	Response Timestamp	Event Data	Response	Signal Strength	CS Receiver Phone#	Attempt	
06/02/11 19:14		E2		-87dBm	124	1	Detail
06/02/11 19:14		E4		-87dBm	124	1	Detail
06/02/11 19:01	19:03:09	32	OK	-83dBm	124	1	Detail
06/02/11 19:01	19:03:09	34	OK	-83dBm	124	1	Detail
06/02/11 18:59	19:00:15	E2	OK	-81dBm	124	1	Detail
06/02/11 18:59	19:00:35	E4	OK	-81dBm	124	1	Detail
06/02/11 18:46	18:46:59	32	OK	-85dBm	124	1	Detail

Check-In Log

The Check-in log displays radio transmissions that are not routed to the central station. These signals are used by the SRMC to monitor the radio and indicate its status. Dealers can see the last check-in time by looking at the Timestamp column. The remaining columns are for NAPCO technical support use.

STARLINK RADIO MANAGEMENT CENTER									Welcome mcnapco ! [Log Out]
Home	Radio Programming	Signal Log	Edit History	Back	Add User	Radio ID# 3011263		Checkins	
<input type="button" value="Press to Send Radio Test"/>									Refresh Next
Timestamp	Firmware Ver	Flags	Reboot	RSSI	Roaming	Trouble (b7...b0)	Diagnostics	PGM Status	
09/08/11 10:47	0.3.8/6.2	Date/Time Request	External Reset, Power Up	-89dBm	No	00000000	00000000	1L 2H 3H	
09/07/11 18:03	0.3.8/6.2	Date/Time Request	External Reset, Power Up	-77dBm	No	00000000	00000000	1L 2H 3H	
09/07/11 16:39	0.3.8/6.2	Date/Time Request	External Reset, Power Up	-97dBm	No	00000000	00000000	1L 2H 3H	
09/07/11 13:18	0.3.7/6.1	Date/Time Request	External Reset, Power Up	-87dBm	No	00000000	00000000	1L 2H 3H	
09/07/11 13:11	0.3.6/6.0	Normal	NA	-81dBm	No	00000000	00000000	1L 2H 3H	
09/07/11 09:37	0.3.6/6.0	Normal	NA	-101dBm	No	00000000	00000000	1L 2H 3L	
09/07/11 09:36	0.3.6/6.0	Normal	NA	-101dBm	No	00000000	00000000	1L 2H 3H	

Edit History

This screen displays any time a radio has its configuration either uploaded or downloaded.

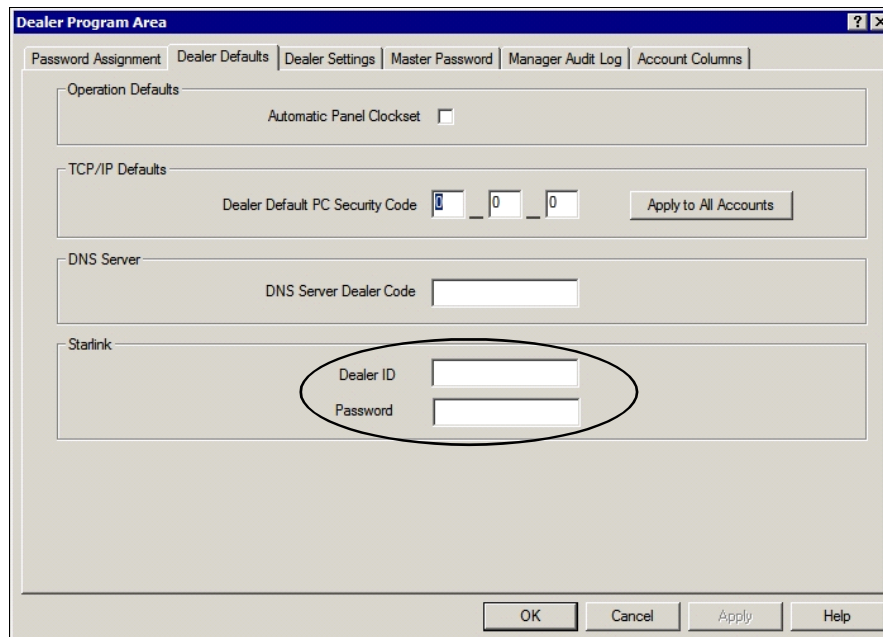
STARLINK RADIO MANAGEMENT CENTER		Welcome mcdealer ! [Log Out]
Home	Radio Programming	Signal Log
Checkins	Back	Radio ID# 3011049
		Edit History
Refresh Next		
Timestamp	Change Type	
06/02/11 18:17	Data Download	
06/02/11 13:43	Data Upload	
06/02/11 13:42	Data Download	
06/02/11 13:40	Data Upload	
06/02/11 13:40	Data Download	

PCD-WINDOWS QUICKLOADER 6.1 SETUP

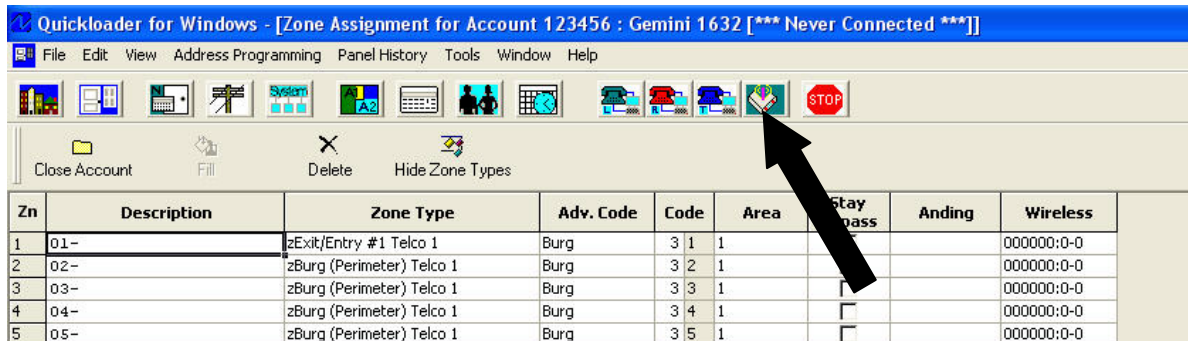
The NAPCO PCD-Windows Quickloader Download software version 6.1 is included in the package and must be used in order to communicate to a NAPCO alarm control panel through the SL^e-GSM radio. Quickloader 6.1 uses a TCP/IP secure socket connection to connect to the radio. Please ensure your network router provides access to ports 10090 and 10091.

Quickloader v.6.1 must be installed on a PC that has Internet access.

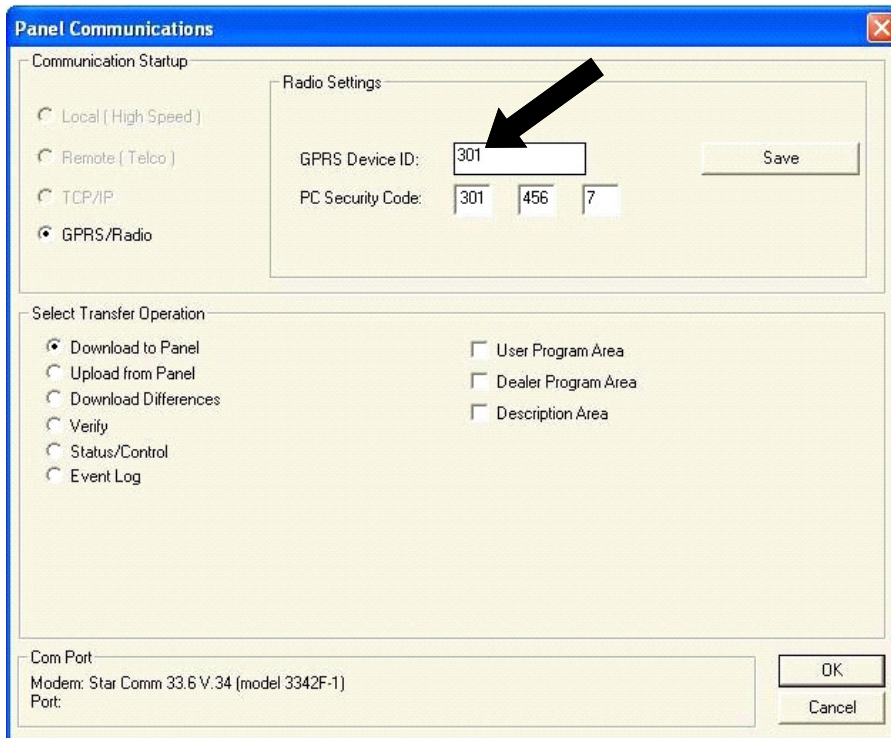
1. Place CD in the drive and install Quickloader 6.1 in the same manner as you have previously installed Quickloader. Follow the prompts and install with the defaults provided.
2. Click **File, Dealer Settings** to open the **Dealer Program Area** screen, **Dealer Defaults** tab. This screen contains two StarLink fields (circled below) that must be completed for each PCD-Windows Quickloader installation containing control panels connected to StarLink SL^e-GSM radios. The StarLink **Dealer ID** and **Password** fields are global for all accounts, and therefore the **Dealer ID** and **Password** need only be typed once (for each Quickloader database created). **Note:** The same information is entered during the StarLink registration process.



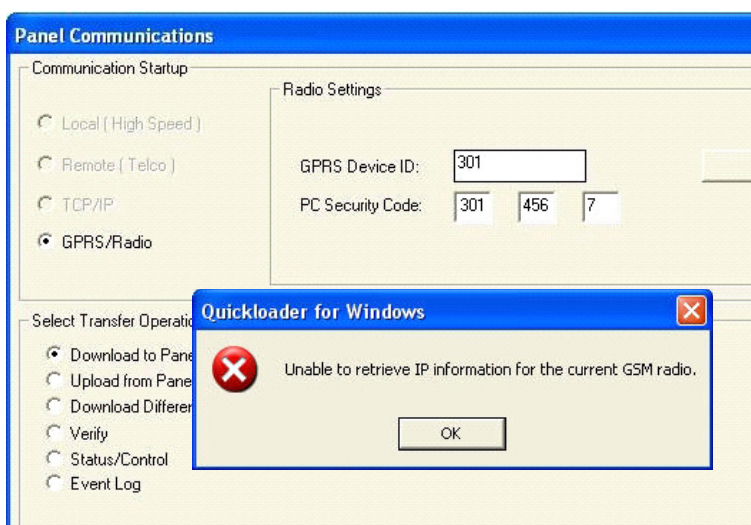
With an open account, note the following changes to the screens shown below:



3. On the top right, note the new "radio modem" button image next to the telephone (see above image). This is the **GSM Panel Communications** button. Click the button to open the **Panel Communications** dialog.



4. In the field labeled "**GPRS Device ID**", type the radio ID# (this is the 7-digit number printed on the bar code tag on the SL^e-GSM radio and also shown on the first page of your Agreement).
5. Select the transfer operation options located at the bottom of the box and check off the appropriate data you wish to move. Click **OK** to proceed.
6. At this time, Quickloader will retrieve the IP address of your radio and make the connection. If you see the error (popup) message shown below, it means the Internet was not accessible by the Quickloader program or your network is preventing Quickloader from making a connection. Check to ensure your network router provides access to ports 10090 and 10091.



Note: In the above **Panel Communication** screen shown above, the **PC Security Code** is also set in the **Advanced** tab in the **StarLink Radio Management Center** at www.napconoc.com. For a description of the **PC Security Code**, see page 8.

NAPCO LIMITED WARRANTY

NAPCO SECURITY SYSTEMS, INC. (NAPCO) warrants its products to be free from manufacturing defects in materials and workmanship for *thirty-six months* following the date of manufacture. NAPCO will, within said period, at its option, repair or replace any product failing to operate correctly without charge to the original purchaser or user.

This warranty shall not apply to any equipment, or any part thereof, which has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to acts of God, or on which any serial numbers have been altered, defaced or removed. Seller will not be responsible for any dismantling or reinstallation charges.

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. THERE IS NO EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. ADDITIONALLY, THIS WARRANTY IS IN LIEU OF ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF NAPCO.

Any action for breach of warranty, including but not limited to any implied warranty of merchantability, must be brought within the six months following the end of the warranty period. IN NO CASE SHALL NAPCO BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY THE SELLER'S OWN NEGLIGENCE OR FAULT.

In case of defect, contact the security professional who installed and maintains your security system. In order to exercise the warranty, the product must be returned by the security professional, shipping costs prepaid and insured to NAPCO. After repair or replacement, NAPCO assumes the cost of returning products under warranty. NAPCO shall have no obligation under this warranty, or otherwise, if the product has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to accident, nuisance, flood, fire or acts of God, or on which any serial numbers have been altered, defaced or removed. NAPCO will not be responsible for any dismantling, reassembly or reinstallation charges.

This warranty contains the entire warranty. It is the sole warranty and any prior agreements or representations, whether oral or written, are either merged herein or are expressly cancelled. NAPCO neither assumes, nor authorizes any other person purporting to act on its

behalf to modify, to change, or to assume for it, any other warranty or liability concerning its products.

In no event shall NAPCO be liable for an amount in excess of NAPCO's original selling price of the product, for any loss or damage, whether direct, indirect, incidental, consequential, or otherwise arising out of any failure of the product. Seller's warranty, as hereinabove set forth, shall not be enlarged, diminished or affected by and no obligation or liability shall arise or grow out of Seller's rendering of technical advice or service in connection with Buyer's order of the goods furnished hereunder.

NAPCO RECOMMENDS THAT THE ENTIRE SYSTEM BE COMPLETELY TESTED WEEKLY.

Warning: Despite frequent testing, and due to, but not limited to, any or all of the following; criminal tampering, electrical or communications disruption, it is possible for the system to fail to perform as expected. NAPCO does not represent that the product/system may not be compromised or circumvented; or that the product or system will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; nor that the product or system will in all cases provide adequate warning or protection. A properly installed and maintained alarm may only reduce risk of burglary, robbery, fire or otherwise but it is not insurance or a guarantee that these events will not occur. CONSEQUENTLY, SELLER SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE, OR OTHER LOSS BASED ON A CLAIM THE PRODUCT FAILED TO GIVE WARNING. Therefore, the installer should in turn advise the consumer to take any and all precautions for his or her safety including, but not limited to, fleeing the premises and calling police or fire department, in order to mitigate the possibilities of harm and/or damage.

NAPCO is not an insurer of either the property or safety of the user's family or employees, and limits its liability for any loss or damage including incidental or consequential damages to NAPCO's original selling price of the product regardless of the cause of such loss or damage.

Some states do not allow limitations on how long an implied warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages, or differentiate in their treatment of limitations of liability for ordinary or gross negligence, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.