
InfoRad[®] SNPP-Connect[™]

InfoRad[®], Inc.



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Introduction

InfoRad® SNPP-Connect™

General Overview

The InfoRad® SNPP-Connect™ Gateway is a powerful frontend software solution that will process incoming SNPP messages directly through the InfoRad Wireless Enterprise SV*, InfoRad Watch-IT ASCII SV, or InfoRad Watch-IT Serial messaging software. Incorporating the SNPP-Connect™ Gateway adds additional capability and versatility to your messaging environment while maintaining a high level of control, security, and reliability over your enterprise messaging network.

Technical Overview

The InfoRad SNPP-Connect™ Gateway output is monitored by InfoRad Enterprise SV*, Watch-IT ASCII SV, or InfoRad Watch-IT Serial software for an incoming SNPP message. Upon detection and confirmation of a valid address, the message or messages are dispatched to the intended receivers. The InfoRad software will validate, direct and or redirect and log all message transactions to the designated carriers including private systems.

When integrated with the InfoRad Enterprise SV* or Watch-IT ASCII SV software the incoming SNPP address to the gateway can be assigned to an individual receiver or group of receivers within the InfoRad Enterprise SV* or Watch-IT ASCII SV software.

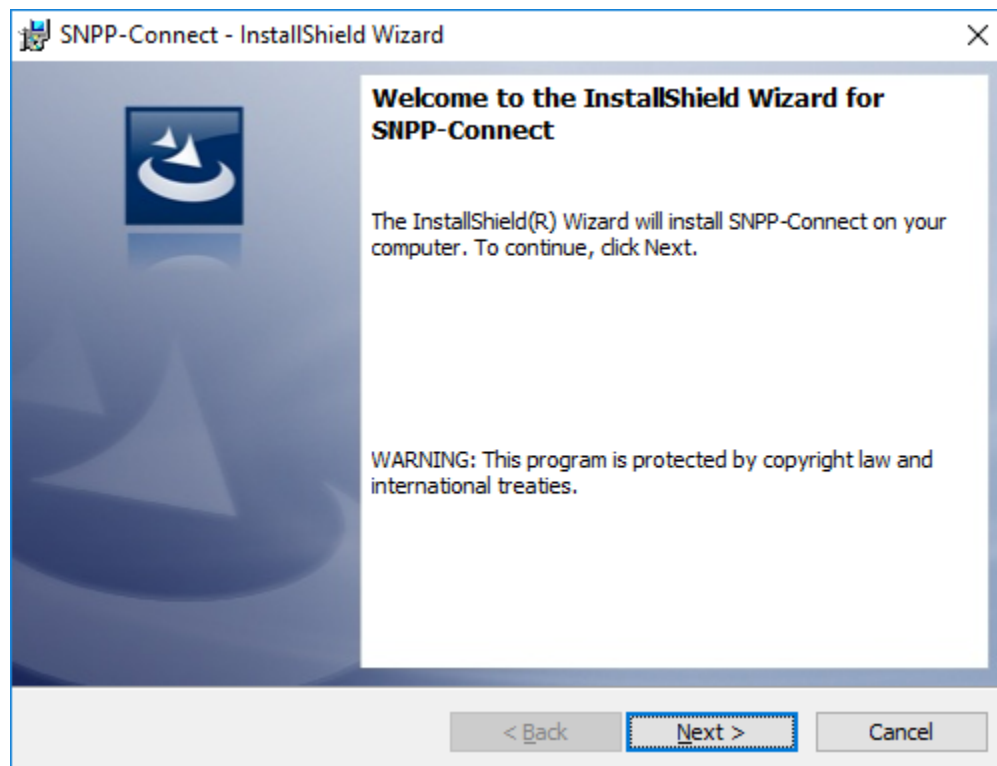
When integrated with the InfoRad Watch-IT Serial software the incoming SNPP message is parsed for an alarm code or key word(s) and sent to the assigned Receiver(s) or Group(s) programmed to receive messages for the alarm code or key word(s).

Outgoing multiple message protocol support and Route-on-Failure are provided via SNPP, WCTP, SMTP, TAP, including direct serial TAP. InfoRad SV software runs under MS Windows as a Service. If using InfoRad v10.4.0 or later, select SMS providers are supported.

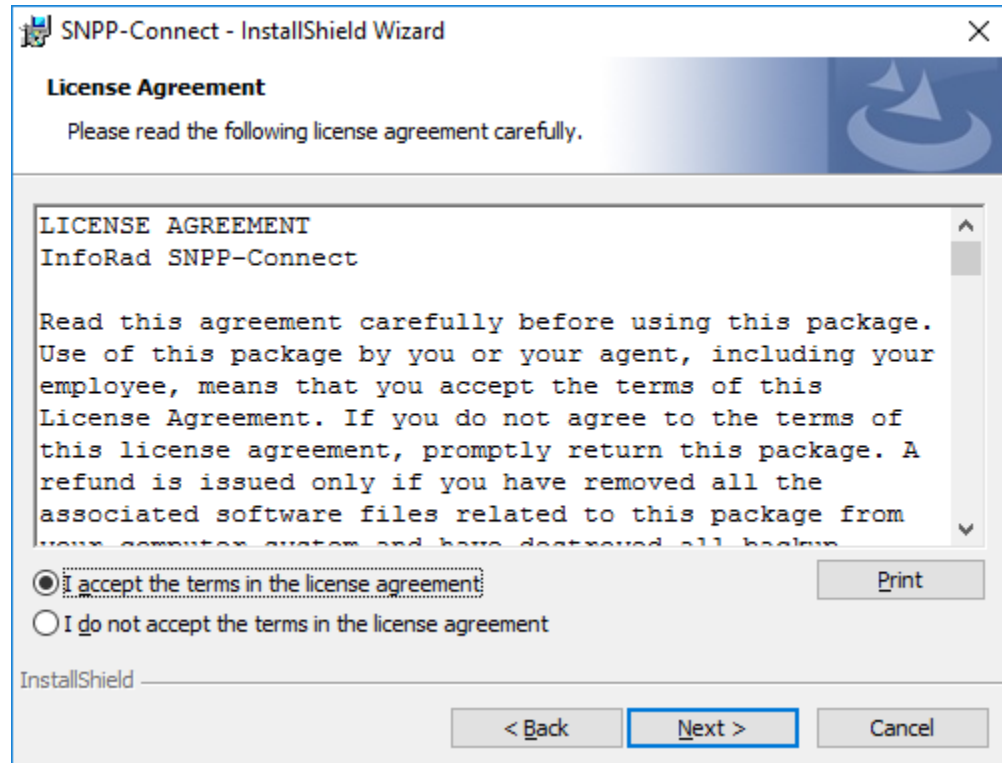
***Note:** The InfoRad Enterprise SV software requires a 10-Client license or greater.

Installing InfoRad® SNPP-Connect™

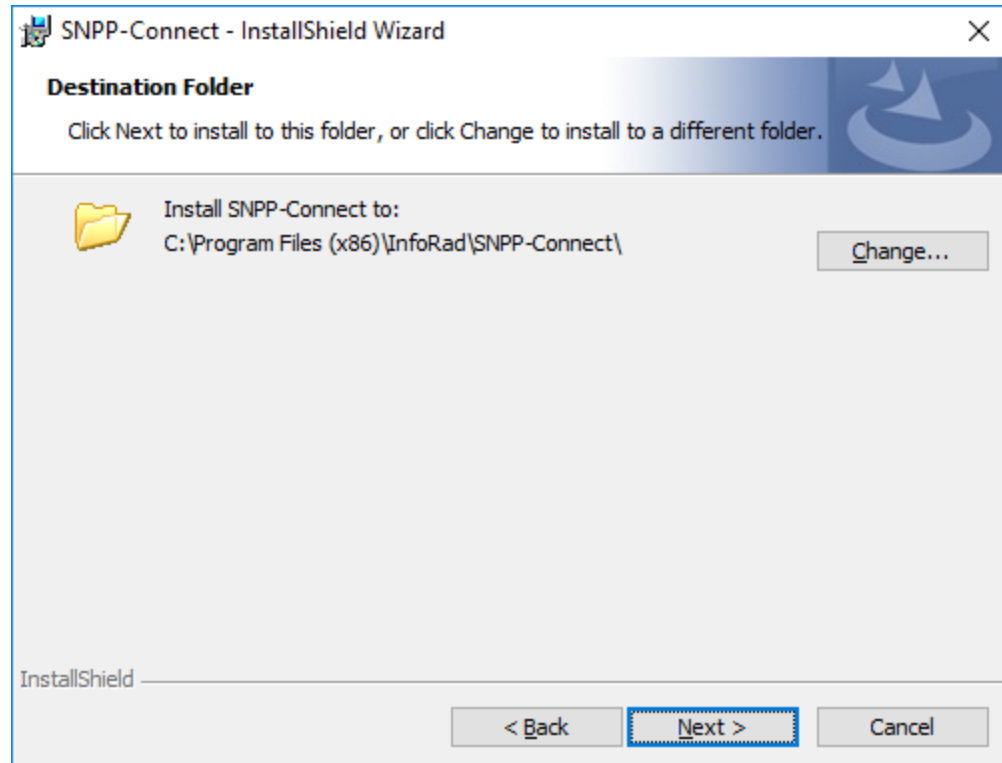
1. Make a back-up copy of your InfoRad SNPP-Connect™ disk or download file.
2. The Setup should start automatically from CD to install InfoRad® SNPP-Connect™ on your computer hard drive, or run the Setup file located on the CD or in the download files.
3. The InfoRad® SNPP-Connect™ InstallShield Wizard will appear. Click on the Next button or press Return to continue the installation of InfoRad® SNPP-Connect™



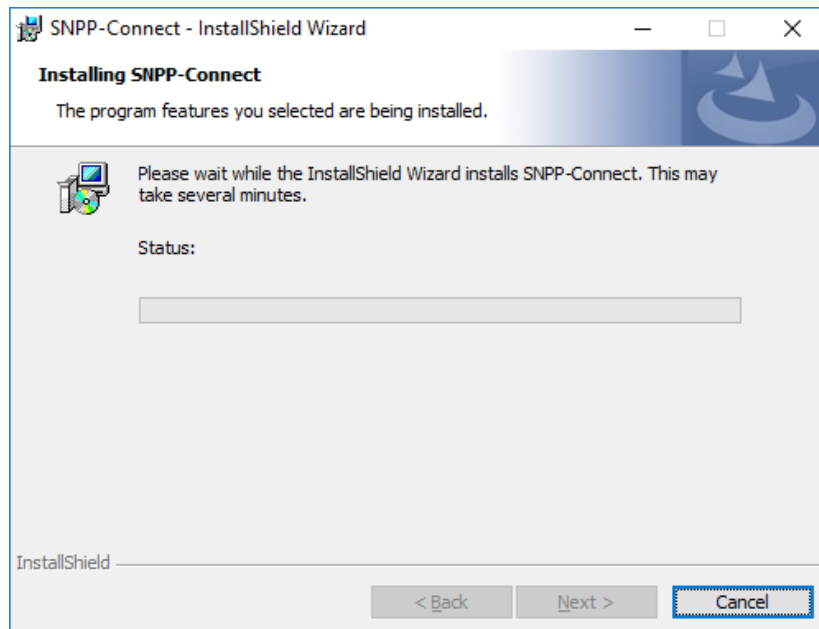
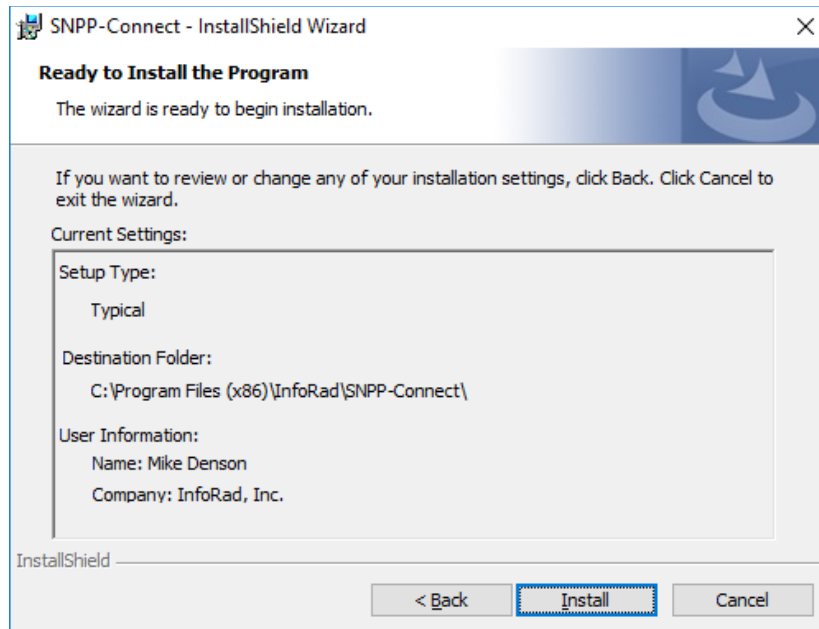
4. The InfoRad® SNPP-Connect™ InstallShield Wizard license agreement screen will appear. Select the “I accept...” option and click on the Next button to continue the installation of InfoRad® SNPP-Connect™.



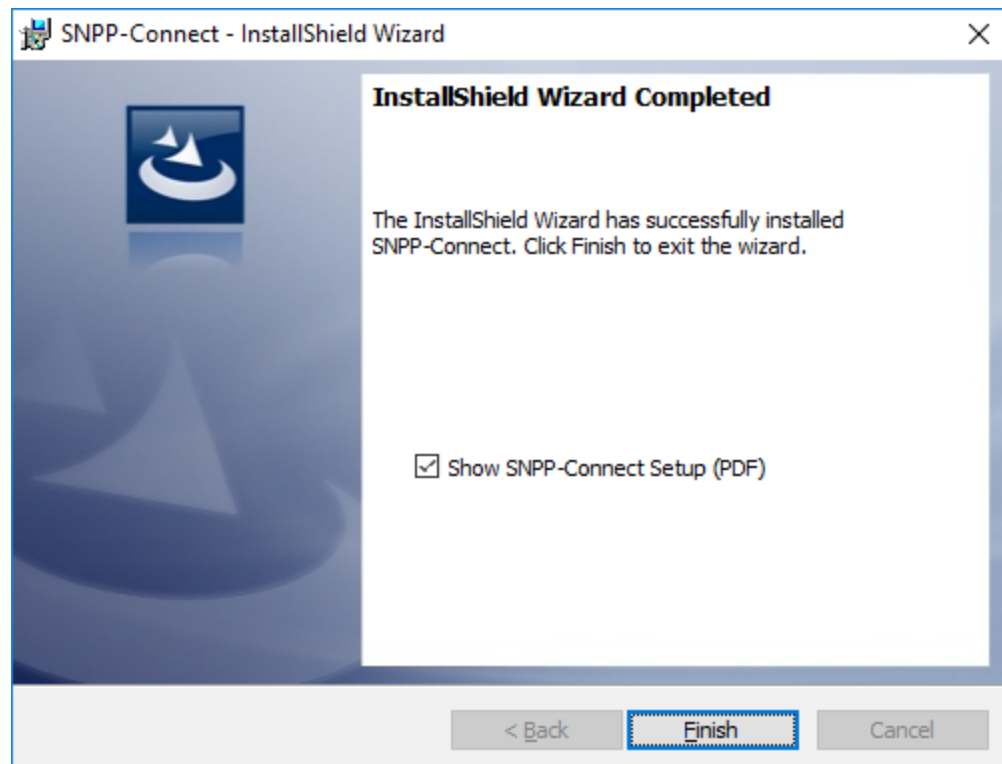
5. You are then prompted for a destination directory for the installation. If you wish to change the directory where the InfoRad® SNPP-Connect™ application will be installed, click on the Change button and select a new directory. Otherwise, click on the Next button to continue the installation process.



6. Ready to Install! Click Install button and setup will then install the program files.



7. Click on Finish



SNPP-Connect™ Configuration

Once the program files are installed, the InfoRad® SNPP-Connect™ Configuration application will start.

InfoRad Snpp-Connect v1.51

File Licensing Utilities About

DEMO Mode

Retrieve data

InfoRad License: 0040805
Service version: 1.51
Status Files: Delete
Serial port status: Closed

General | Serial output

SNPP server port: 444 (default: 444)

Output Mode: Message file

Output directory: C:\SNPP-Connect\output\ end in '\' Example: c:\output\

Logging: ☒

Edit settings Save Changes Cancel

Status: **License saved OK**

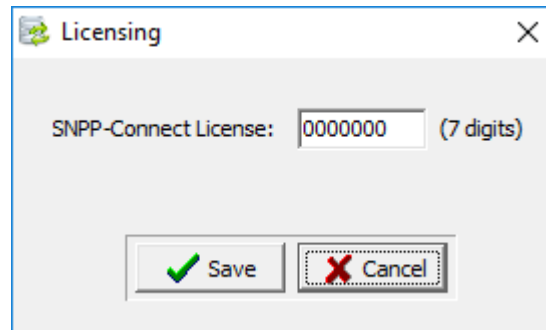
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If you are evaluating InfoRad® SNPP-Connect™ in Demo mode, please continue to the next page to complete Configuration settings.

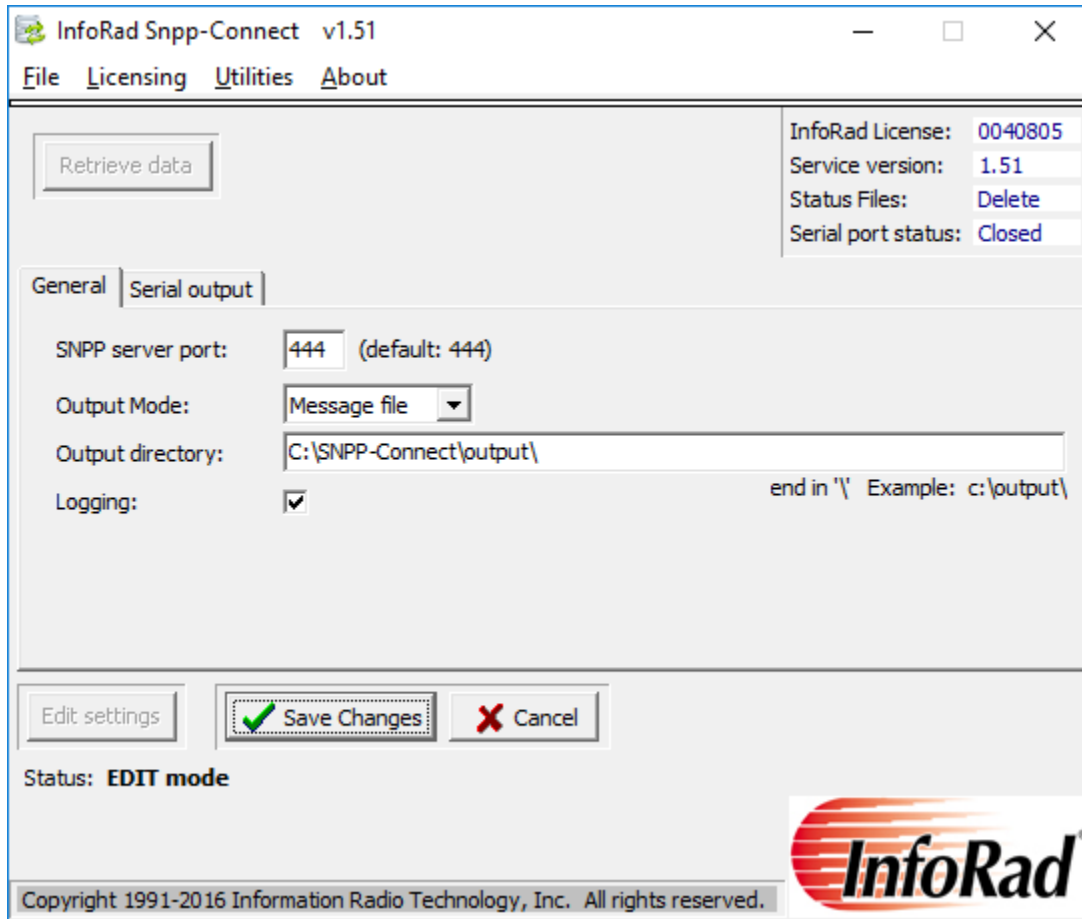
If you have purchased InfoRad® SNPP-Connect™, enter your license number:

From the Menu bar select **Licensing**.

Enter your license number and then click the Save button.



To configure InfoRad® SNPP-Connect™, click on the **Edit settings** button.



SNPP server port field: Enter the port number you want InfoRad® SNPP-Connect™ to monitor for SNPP input.

Output mode: Select 'Message file' if SNPP-Connect™ is to be used with InfoRad Enterprise SV* or InfoRad Watch-IT ASCII SV; select 'Serial port' if SNPP-Connect™ is to be used with InfoRad Watch-IT Serial.

Output directory field: enter the path to your InfoRad Enterprise SV, InfoRad Watch-IT ASCII SV message directory, or enter the path to your InfoRad Watch-IT Serial directory. For example, if the default installation path was used:

InfoRad V10.4.0 and later:

InfoRad Enterprise SV: C:\ProgramData\InfoRad\InfoRad Enterprise SV Service\MSG\

Watch-IT ASCII SV: C:\ProgramData\InfoRad\InfoRad Watch-IT ASCII SV Service\MSG\

Watch-IT Serial: C:\ProgramData\InfoRad\InfoRad Watch-IT Serial\

InfoRad V10.3.8 and previous:

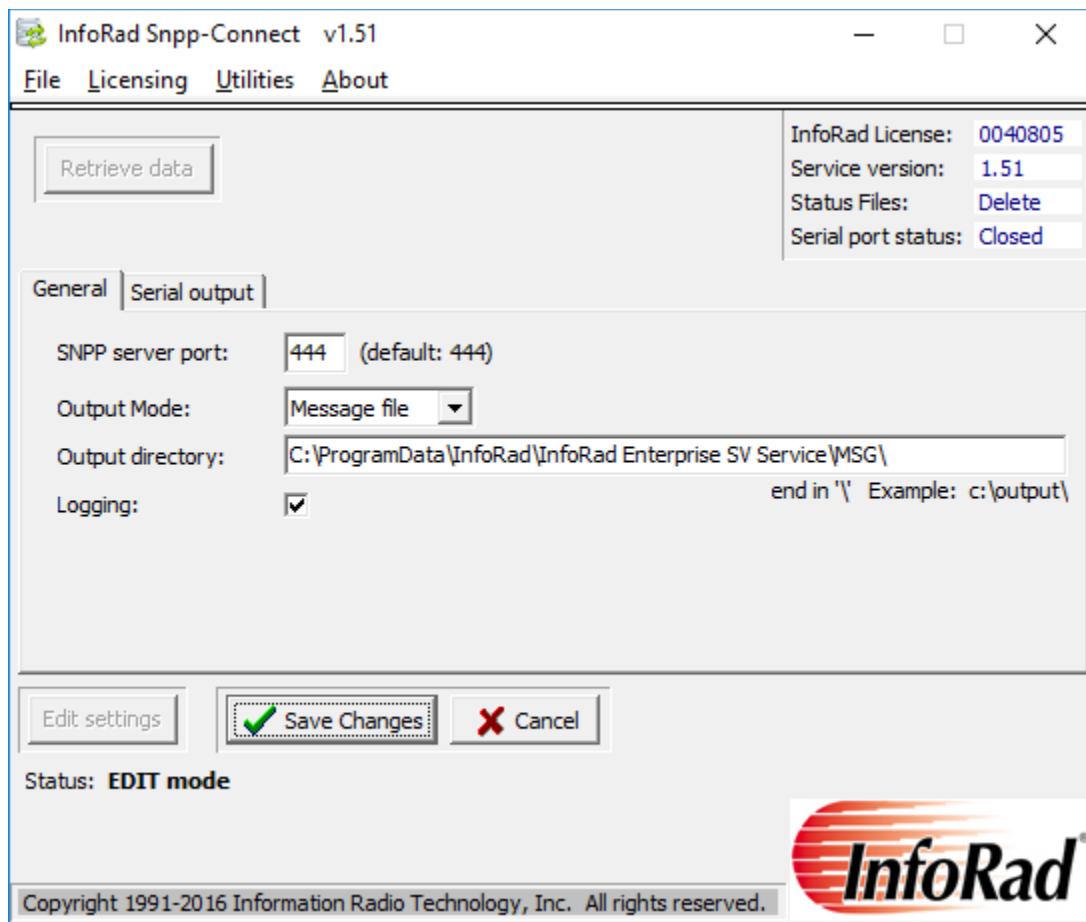
InfoRad Enterprise SV: C:\Program Files\InfoRad Enterprise SV Service\MSG\

Watch-IT ASCII SV: C:\Program Files\InfoRad Wireless Watch-IT ASCII SV Service\MSG\

Watch-IT Serial: C:\Program Files\InfoRad Wireless\

Note: please include the trailing backslash in the path

Logging option: Turn on the logging option for troubleshooting. The InfoRad® SNPP-Connect™ service will place the log file in a folder named **Logs** in the **Output directory**. The log file is a text file and will be named with the date. (Ex: 08_25_1014.txt)



If using InfoRad Enterprise SV or InfoRad Watch-IT ASCII SV click the **Save Changes** button to save your settings.

If using InfoRad Watch-IT Serial click on 'Serial port' tab for serial port settings.

The screenshot shows the 'InfoRad Snpp-Connect v1.51' application window. The 'Serial output' tab is selected. The 'General' section contains the following settings: Com number: 2, Data rate: 9600, Parity: None, Data bits: 8 (7 or 8), Stop bits: 1, Flow control: None, and End string: \r\n. A note states: '(NOTE: serial output port only used if Output Mode is set to "Serial Port")'. The bottom of the window shows 'Status: EDIT mode' and the InfoRad logo. The top right corner displays license and status information: InfoRad License: 0040805, Service version: 1.51, Status Files: Delete, and Serial port status: Closed.

InfoRad License:	0040805
Service version:	1.51
Status Files:	Delete
Serial port status:	Closed

Com number: 2 Flow control: None

Data rate: 9600 End string: \r\n

Parity: None

Data bits: 8 (7 or 8)

Stop bits: 1

(NOTE: serial output port only used if Output Mode is set to "Serial Port")

Edit settings Save Changes Cancel

Status: **EDIT mode**

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InfoRad

NOTE: Serial port settings should match those in Watch-IT Serial – Serial Monitoring Setup

Com number: enter the Comport number for SNPP-Connect serial data output

Data rate: select data rate from the dropdown list: 300, 1200, 2400, 4800, 9600, 19200, 38400

Parity: select parity setting from the dropdown list: Even, Odd, None

Data bits: enter 7 or 8 data bits

Stop bits: enter 1 or 2 stop bits

Flow Control: select flow control from dropdown list: Hardware, Software, None

End string: enter the end of string /end of data character(s)

Supported characters:

\r carriage return (must be lowercase 'r')

\n new line (line feed) (must be lowercase 'n')

\xy any 2 hex characters (Example: \04 for EOT)

If none of the above, then enter a character string (Example: END or end)

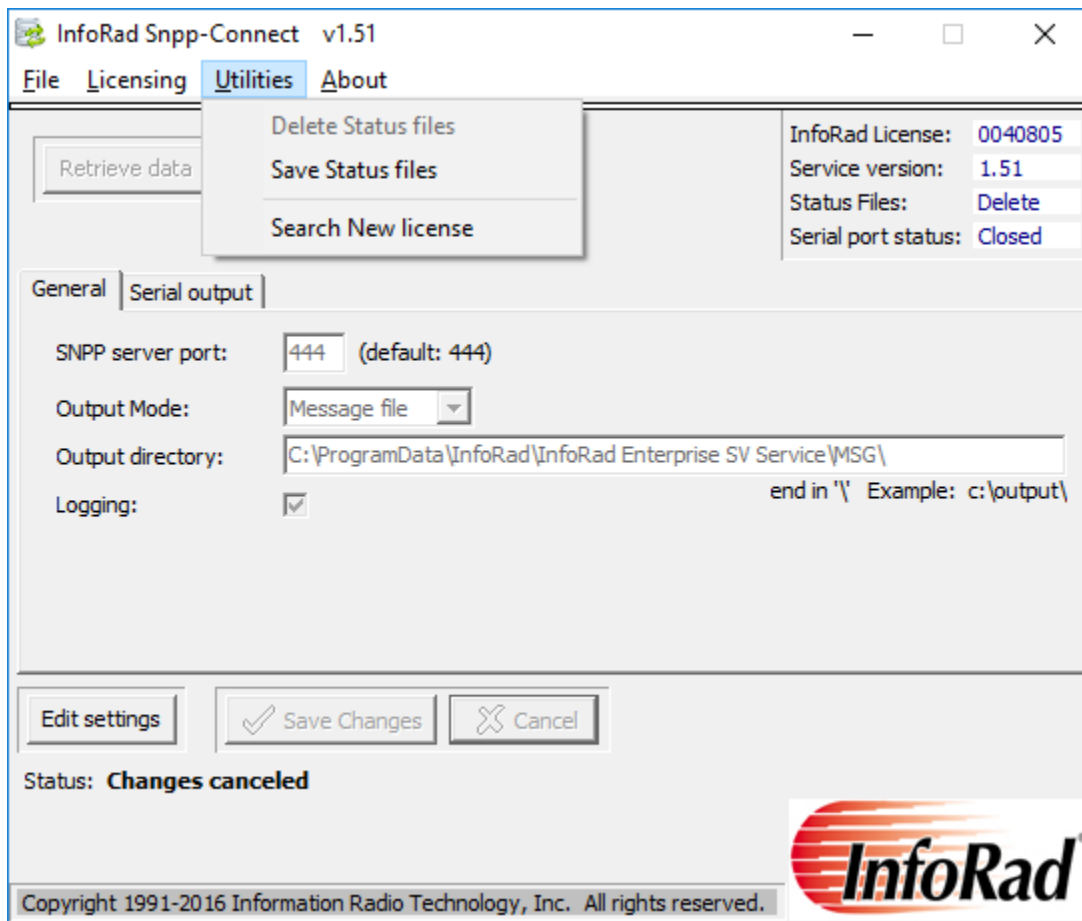
Click the **Save Changes** button to save your settings.

Utilities menu

Delete Status files option: (default) The InfoRad® SNPP-Connect™ service will delete InfoRad Message Status files after processing. (InfoRad Enterprise SV or InfoRad Watch-IT ASCII SV only)

Save Status files option: Select this option to save InfoRad Message Status files for troubleshooting purposes. Error status files contain error statements when message send attempts fail. (InfoRad Enterprise SV or InfoRad Watch-IT ASCII SV only)

Search New license option: This option allows the InfoRad® SNPP-Connect™ service to find a new InfoRad License number. For example, if the InfoRad® SNPP-Connect™ service was initially setup in Demo mode (30-day Trial mode) with a 30-day Trial version of Enterprise SV or Watch-IT ASCII SV, once the full version of InfoRad product is installed you can license the InfoRad® SNPP-Connect™ from Demo to licensed mode by using Search New license, and then entering the InfoRad® SNPP-Connect™ license number under the Licensing menu.



Using InfoRad® SNPP-Connect™ With InfoRad® Watch-IT ASCII SV and InfoRad® Enterprise SV*

The InfoRad SNPP-Connect™ runs as a service under MS Windows and monitors a designated **SNPP server port** for SNPP traffic for valid incoming messages. The InfoRad® SNPP-Connect™ service processes the SNPP data for sending and formats the message for the InfoRad Wireless Watch-IT ASCII SV or InfoRad Wireless Enterprise SV* software to redirect the message using supported wireless industry messaging protocols.

When the InfoRad® SNPP-Connect™ receives an incoming SNPP message it parses the receiver information and the message text from the SNPP data.

The receiver information is then used as the recipient name within the InfoRad Watch-IT ASCII SV and Enterprise SV* software; therefore, **the receiver number or name must exist in the InfoRad Watch-IT ASCII SV or Enterprise SV* software program database as a Receiver name or Group name.** For example, “PaulCell” or “2165311369” would be entered in the InfoRad program as a Receiver or Group name. (See next page for example database entries.)

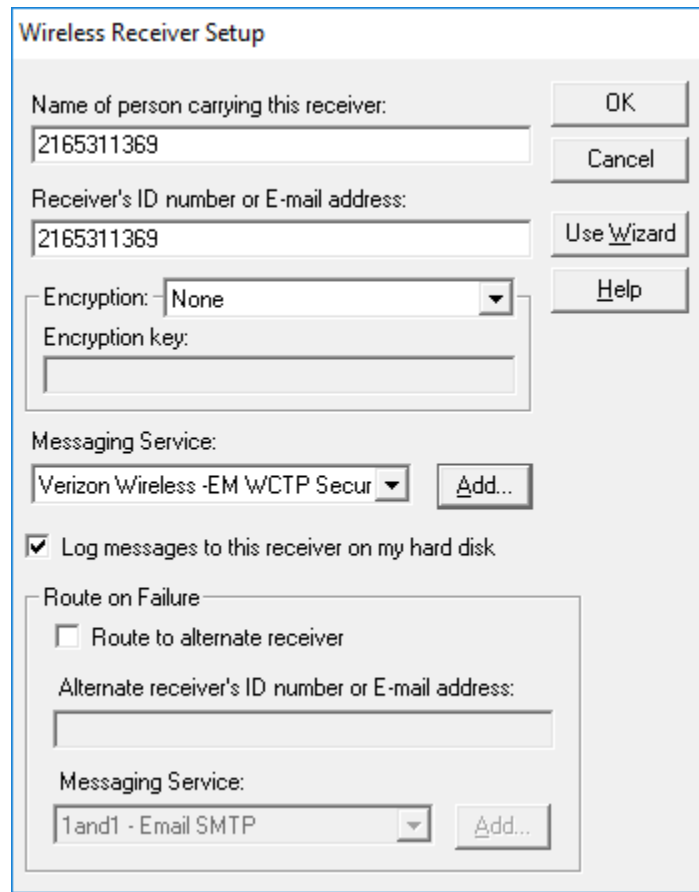
The SNPP message text is used for the message text for the InfoRad program.

When the InfoRad program receives a message that has been processed by InfoRad® SNPP-Connect™ , the message is sent to the Receiver or Group name using the appropriate phone number(s) and Messaging Service(s) as defined in the InfoRad program database. Outgoing multiple message protocol support and route-on-failure are provided via SNPP, WCTP, SMTP, TAP, including direct serial TAP. If using InfoRad v10.4.0 or later, select SMS providers are supported.

***Note:** The InfoRad Enterprise SV software requires a 10-Client license or greater.

Example database entries in InfoRad Wireless Watch-IT ASCII SV or InfoRad Wireless Enterprise SV:

- 1) Using phone number in SNPP messages. Systems generating SNPP messages typically use the phone number. For example, using a phone number of <2165311369> to send to an employee phone or pager via SNPP-Connect, enter a Receiver Name of 2165311369 in the InfoRad database:



The image shows a 'Wireless Receiver Setup' dialog box. It contains several input fields and buttons. The 'Name of person carrying this receiver:' field is filled with '2165311369'. The 'Receiver's ID number or E-mail address:' field is also filled with '2165311369'. The 'Encryption:' dropdown is set to 'None'. The 'Encryption key:' field is empty. The 'Messaging Service:' dropdown is set to 'Verizon Wireless -EM WCTP Secur'. The 'Log messages to this receiver on my hard disk' checkbox is checked. The 'Route on Failure' section is collapsed, showing a 'Route to alternate receiver' checkbox which is unchecked, an empty 'Alternate receiver's ID number or E-mail address:' field, and a 'Messaging Service:' dropdown set to '1and1 - Email SMTP'. Buttons for 'OK', 'Cancel', 'Use Wizard', 'Help', and 'Add...' are visible.

Wireless Receiver Setup

Name of person carrying this receiver:
2165311369

Receiver's ID number or E-mail address:
2165311369

Encryption: None

Encryption key:

Messaging Service:
Verizon Wireless -EM WCTP Secur

☒ Log messages to this receiver on my hard disk

Route on Failure

☐ Route to alternate receiver

Alternate receiver's ID number or E-mail address:

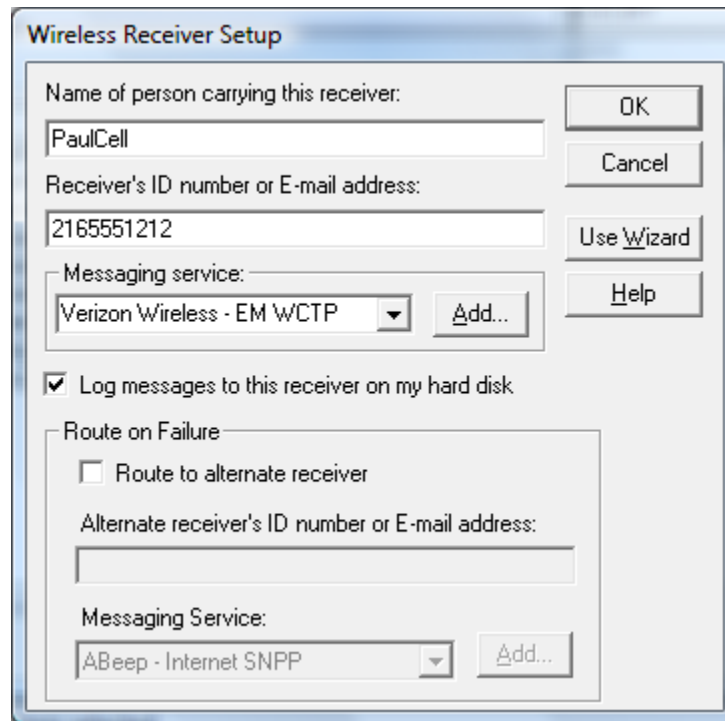
Messaging Service:
1and1 - Email SMTP

Buttons: OK, Cancel, Use Wizard, Help, Add...

When an SNPP message to <2165311369> is captured by SNPP-Connect, the result is the text of the SNPP message will be sent to the wireless receiver defined as '2165311369' in the InfoRad Receiver database.

Note: SNPP-Connect will strip dashes, spaces, and dots from the phone number submitted by the external SNPP system. Therefore you should NOT include dashes, spaces, or dots in the number for the Receiver name in the InfoRad database.

- 2) Using name in SNPP messages. If your system generating SNPP messages uses or allows text names (vs phone numbers), SNPP-Connect supports text names*. For example, using an SNPP receiver address of <PaulCell> to send to Paul's cell phone via SNPP-Connect, enter a Receiver Name of PaulCell in the InfoRad database:



The image shows a Windows-style dialog box titled "Wireless Receiver Setup". It contains several input fields and buttons. The first section has a label "Name of person carrying this receiver:" followed by a text box containing "PaulCell". To the right of this section are "OK" and "Cancel" buttons. The second section has a label "Receiver's ID number or E-mail address:" followed by a text box containing "2165551212". To the right of this section are "Use Wizard" and "Help" buttons. The third section has a label "Messaging service:" followed by a dropdown menu showing "Verizon Wireless - EM WCTP" and an "Add..." button. Below this is a checked checkbox labeled "Log messages to this receiver on my hard disk". The fourth section is titled "Route on Failure" and contains an unchecked checkbox labeled "Route to alternate receiver". Below this is a label "Alternate receiver's ID number or E-mail address:" followed by an empty text box. The fifth section has a label "Messaging Service:" followed by a dropdown menu showing "ABeep - Internet SNPP" and an "Add..." button.

When an SNPP message to <PaulCell> is captured by SNPP-Connect, the result is the text of the SNPP message will be sent to the wireless receiver defined as PaulCell in the InfoRad Receiver database.

*Note: SNPP-Connect will strip dashes, spaces, and dots from the text name submitted by the external SNPP system. Therefore you should NOT include dashes, spaces, or dots in the name for the Receiver in the InfoRad database. (If your external SNPP system allows, underscores in names are permissible. Ex: Paul_Cell)

Using InfoRad® SNPP-Connect™ With InfoRad® Watch-IT Serial

The InfoRad SNPP-Connect™ runs as a service under MS Windows and monitors a designated **SNPP server port** for SNPP traffic for valid incoming messages. The InfoRad® SNPP-Connect™ service processes the SNPP data for sending and formats the message for the InfoRad Wireless Watch-Serial software to redirect the message using supported wireless industry messaging protocols.

When the InfoRad® SNPP-Connect™ receives incoming SNPP data it parses the SNPP message text from the SNPP data which is then output via the assigned serial port to the InfoRad Watch-IT Serial software.

The Watch-IT Serial software receives the SNPP message text that has been processed by InfoRad® SNPP-Connect™, and parses the incoming SNPP message text for programmed alarm code or key word(s). Watch-IT Serial then sends the SNPP message text and / or optional 'additional text' to the assigned Receiver(s) or Group(s) programmed within the Watch-IT Serial software to receive messages for the specific alarm code or key word(s) using the appropriate phone number(s) and Messaging Service(s) as defined in the InfoRad program database.

Outgoing multiple message protocol support and route-on-failure are provided via SNPP, WCTP, SMTP, TAP, including direct serial TAP. If using InfoRad v10.4.0 or later, select SMS providers are supported.

Sample Watch-IT Serial Code setup:

Example for alarm code / key word(s) containing "ALARM407"

Edit Serial Code

When an input record containing this alarm code arrives:

ALARM407

Alarm code starts ☐ at column ☒ anywhere

Send an alert message that includes:

☒ record text from column 1 to column 80

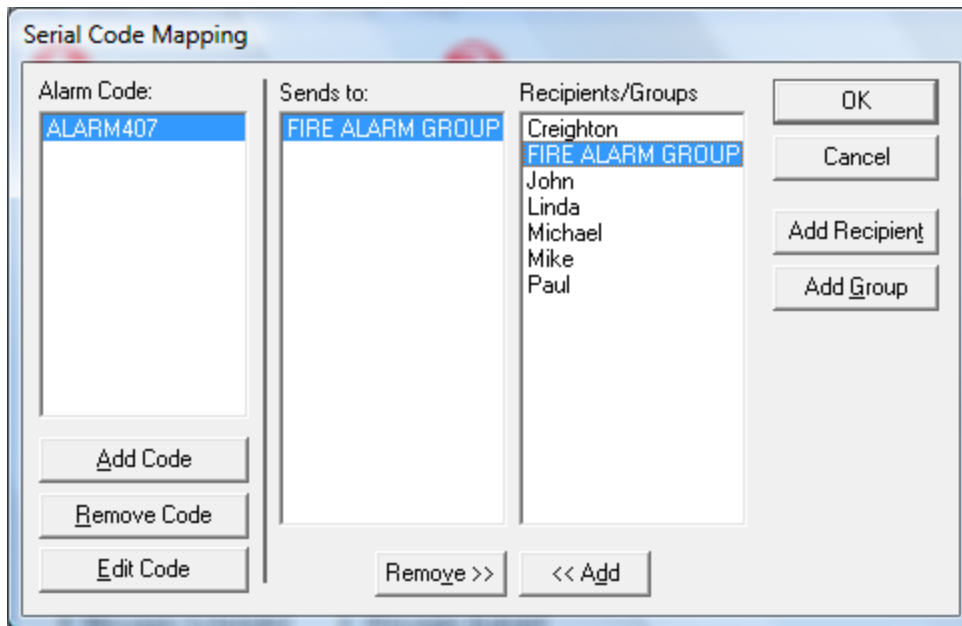
☐ additional record text from column 1 to column 1

☒ additional text: FIRE ALARM Room 407

☐ the date and time

OK Cancel

Assign code to FIRE ALARM GROUP

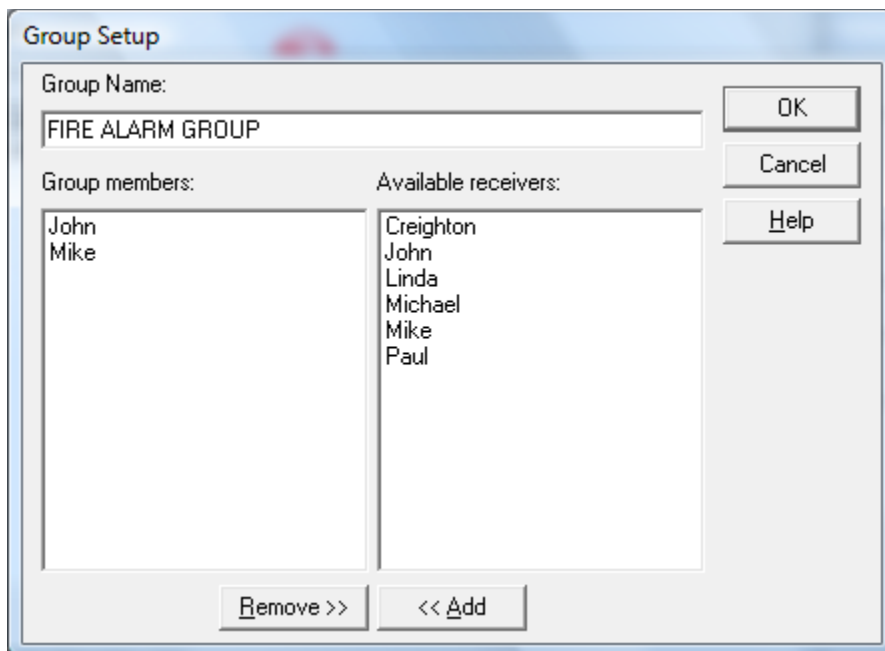


Serial Code Mapping

Alarm Code:	Sends to:	Recipients/Groups
ALARM407	FIRE ALARM GROUP	Creighton FIRE ALARM GROUP John Linda Michael Mike Paul

Buttons: Add Code, Remove Code, Edit Code, Remove >>, << Add, OK, Cancel, Add Recipient, Add Group

FIRE ALARM GROUP created in Watch-IT Serial Group database



Group Setup

Group Name: FIRE ALARM GROUP

Group members:	Available receivers:
John Mike	Creighton John Linda Michael Mike Paul

Buttons: OK, Cancel, Help, Remove >>, << Add

Using the above settings, when “ALARM407” is triggered the result is Watch-IT Serial will send the text message “ALARM407 FIRE ALARM ROOM 407” to the wireless receivers for John and Mike (as defined in the InfoRad Receiver database).

Troubleshooting InfoRad® SNPP-Connect™

SNPP-Connect logging:

In the InfoRad® SNPP-Connect™ Configuration application turn on the **Logging** option and in the **Utilities** menu select **Save Status** files (when using InfoRad Wireless Watch-IT ASCII SV or InfoRad Wireless Enterprise SV). The InfoRad® SNPP-Connect™ log file can be used to view the SNPP message input. The InfoRad® SNPP-Connect™ service will place the log file in a folder named **Logs** in the **Output directory** defined in the SNPP-Connect Configuration application. The log file is a text file and will be named with the date. (Ex: 08_25_2014.txt).

Enterprise SV and Watch-IT ASCII SV message status logs:

InfoRad Wireless Watch-IT ASCII SV or InfoRad Wireless Enterprise SV program message status files can be used to find processing or sending problems. Message log files are found in the Message Directory (the **Output directory** defined in the SNPP-Connect Configuration application). Messages with errors will create an Error Status File named with the format ERR_MSG__viaSNPPC.*nnn* ('*nnn*' = message number).

Utilizing Message Status Files along with Internet and/or Communications diagnostic log files (discussed next) will further aid troubleshooting.

Internet, modem, and direct serial connection diagnostic logs:

Diagnostic logging options for Internet messaging protocols are found in the Enterprise SV, Watch-IT ASCII SV, and Watch-IT Serial programs under the program Internet Settings Setup. The Internet diagnostic log file, named "inetlog.txt", is found in the program folder*.

Diagnostic logging options for Dial-up TAP (Modem) and Direct Serial Connection communications are found in the Enterprise SV, Watch-IT ASCII SV, and Watch-IT Serial programs under the program Communications Settings Setup. The Communications diagnostic log files are found in the program folder*. Modem or Direct Serial Connection log files are named with the format CMddhhmm.TXT. (Example: for a message attempted on the 19th at 11:32 am the log file will be named CM191132.TXT.)

Watch-IT Serial – serial port input diagnostic logs:

InfoRad Wireless Watch-IT Serial: Serial port diagnostic log files (option found in Serial Monitoring Setup) can be used to log incoming serial data. Two kinds of serial data log files are created for serial diagnostics and both can be found in the program folder*. "Simlog.txt" is a continuous log in a more readable format. Additionally, there are log files with the format "SMddhhmm.TXT" that are a raw data log that is created for each serial session. (Example: if the program is started or Serial Monitoring is started on the 19th at 11:32 am, the session log will be named SM191132.TXT.)

Note: When finished troubleshooting, turn off diagnostic logging options in the associated programs, and delete any existing diagnostic log files.

*InfoRad program diagnostic logs are located in the ProgramData folder for v10.4.0 and later.

SNPP-Connect Manual Install / Uninstall

If you have any trouble with the Windows Installer you can manually install the SNPP-Connect service and configuration application.

If you have attempted to use the Windows Installer previously, you should first uninstall the SNPP-Connect. You can attempt to do that from the Windows Add/Remove Programs utility.

If you cannot uninstall from Add/Remove Programs then go to the Command prompt (Start menu – Run or Accessories then Run) and run:

```
sc delete ir_snpp_connect  
(you may have to go to the System folder that contains the sc command and then run the command – EX:  
C:\Windows\System32)
```

You should then re-boot the machine.

To manually install the service:

On the installation CD go to the “Manual Install Files” folder and copy the files to your desired program folder (EX: C:\SNPP-Connect).

Again go to the Command prompt and run:

```
[InstallDirectory] IRsnppSrv.exe /INSTALL
```

Example:

```
C:\SNPP-Connect\IRsnppSrv.exe /INSTALL
```

Once installed you can start the service at the Command prompt:

```
sc start ir_snpp_connect  
(you may have to go to the System folder that contains the sc command and then run the command – EX:  
C:\Windows\System32)
```

Or you can start the service from the Services Control Panel.

Once the service is running, create a shortcut on the desktop to the “IRsnppConnect.exe” in the installation folder.

Start the “IRsnppConnect.exe” and proceed with License and Setup per the manual instructions.

Technical Support

Technical Support is only available to registered users of the software as detailed in the licensing agreement. Please register if you haven't already.

This program is licensed with 90 days free telephone technical support included. AlphaCare Subscription options are available that extend the support period, as well as offer priority telephone support and Upgrade Protection. Out-of-warranty support is also available on a per-incident basis.

Please call InfoRad Sales at (800) 228-8998 for details on AlphaCare, or email to sales@inforad.com, or see our website at www.inforad.com.

InfoRad Software Technical Support is available Monday through Friday 8:30–5:30 ET.

Optional Extended Support Services weekend/holiday and 24x7 options available.

A technical support section with solutions to common problems is also available at www.inforad.com/techsupport

Phone:	(216) 531-1369
Email:	techsupport@inforad.com
Internet:	www.inforad.com

License Agreement

InfoRad® SNPP-Connect™

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InfoRad SNPP-Connect is licensed for use ONLY with the following InfoRad products:

InfoRad Enterprise SV (10-Client License and greater)
InfoRad Watch-IT ASCII SV
InfoRad Watch-IT Serial

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