



Aprisa **SR**



Software Release Notes

Version 1.4.1

January 2012

Contents

1.	Introduction.....	2
2.	Released Files	2
3.	Software Upgrade.....	3
3.1.	Radio Software Upgrade Process.....	3
3.2.	Protected Station Software Upgrade	5
4.	Software Enhancements	6
4.1.	Major Enhancements.....	6
4.2.	Minor Enhancements	7
5.	Software Bug Fixes	8
5.1.	Major Bug Fixes.....	8
5.2.	Minor Bug Fixes	8
6.	Hardware Enhancements	8

1. Introduction

Introduction

The previous Aprisa SR software version release relevant to this release is:

Software Version	Release Date
1.3.4	31 st October 2011

This release of Aprisa SR software is:

Software Version	Release Date
1.4.1	17 th January 2012

This document covers the major changes, product enhancements, new functionality, and bug fixes since Aprisa SR software version 1.3.4.

2. Released Files

Release Files




The following is a list of files released for Aprisa SR Software Version 1.4.1

File Name	File Type	File Function
asraduc_25u	ADUC Code	Discriminator micro controller code UHF 25 kHz radios
asraduc_25v	ADUC Code	Discriminator micro controller code VHF 25 kHz radios
asraduc_u	ADUC Code	Discriminator micro controller code UHF 12.5 kHz radios
asraduc_v	ADUC Code	Discriminator micro controller code VHF 12.5 kHz radios
asrapp	Upgrade App Code	Used to initiate radio software upgrade
asrboot	Bootloader	Used to initiate radio software startup
asrmain	Application Code	Main radio system software
asrrootfs	Root File System	Catalog of system files
asrver	Version File	Release build version
version.txt	Public Version File	Release information

3. Software Upgrade

Upgrade Type	<p>If the Aprisa SR radio is a stand alone radio i.e. not part of a Aprisa SR Protected Station, follow the procedure 'Radio Software Upgrade Process'.</p> <p>If the Aprisa SR radio is part of a Aprisa SR Protected Station, follow the procedure 'Protected Station Software Upgrade Process'.</p> <p>Note: If a radio has been configured for a Protection Type of 'Redundant' (see Aprisa SR User Manual 'Terminal > Protection'), and that radio is no longer part of a Protected Station, the Protection Type must be changed to 'None' before the radio software upgrade can be achieved with the 'Radio Software Upgrade Process'.</p>
---------------------	---

3.1. Radio Software Upgrade Process

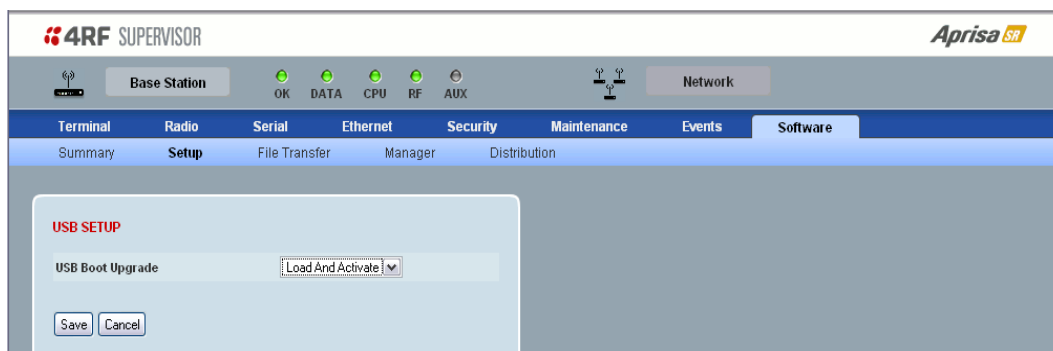
Method	<p>The Aprisa SR radio software is upgraded simply by plugging a USB flash drive containing the new software into the USB A host port  on the Aprisa SR front panel and power cycling the radio.</p>
Procedure	<p>To minimize disruption of link traffic and prevent your radios from being rendered inoperative, please follow the procedures described in this section together with any additional information or instructions supplied with the upgrade package.</p> <p>The radio software must be identical on all radios in the FAN (Field Area Network).</p>
Process Steps	<ol style="list-style-type: none"> 1. Check that the SuperVisor USB Boot Upgrade setting is set to 'Load and Activate' (see SuperVisor > Software > Setup). 2. Unzip the software release files in to the <u>root directory</u> of a USB flash drive. 3. Power off the Aprisa SR and insert the USB flash drive into the Host Port . 4. Power on the Aprisa SR. 5. The software upgrade process is complete when the OK LED lights solid orange. This can take about 2 minutes. 6. Remove the USB flash drive from the Host Port . 7. Power cycle the Aprisa SR.

Upgrade Did Not Start

If the USB boot upgrade process did not start, the Aprisa SR could already be operating on the version of software on the USB flash drive. This will be indicated by flashing Display Panel OK LED and then the OK, DATA and CPU will light steady green.

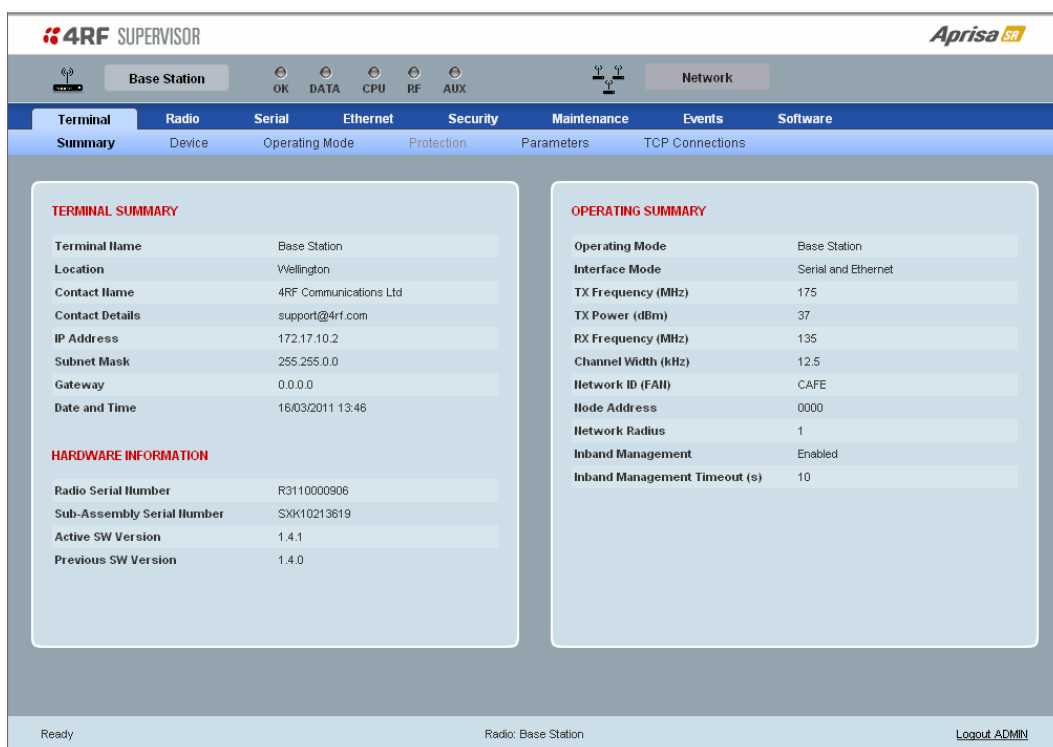
If any Display Panel LED flashes red or is steady red during the upgrade process, it indicates that the upgrade has failed. This could be caused by incorrect files on the USB flash drive or a radio hardware failure.

Check that the SuperVisor USB Boot Upgrade setting is set to 'Load and Activate'.



Check the Result

Login in to the radio to view the Active and Previous software versions.





3.2. Protected Station Software Upgrade

Procedure

The Protected Station software upgrade can be achieved without disruption to traffic.

This procedure assumes that the Primary radio is active and the Secondary radio is standby.

Process Steps

1. Using the Hardware Manual Lock switch, force the primary radio to active.
 2. Carefully remove the Host Port USB cable connecting the secondary radio to the Protection Switch and insert the USB flash drive with the new software release into the secondary radio Host Port .
 3. Power cycle the secondary radio. The radio will be upgraded with the new software.
 4. When the secondary radio upgrade is completed, remove the USB flash drive, restore the Host Port USB cable to Protection Switch, power cycle the secondary radio and wait for it to become standby.
 5. Using the Hardware Manual Lock switch, force the secondary radio to active.
 6. Carefully remove the Host Port USB cable connecting the primary radio to the Protection Switch and insert the USB flash drive with the new software release into the primary radio Host Port .
 7. Power cycle the primary radio. The radio will be upgraded with the new software.
 8. When the primary radio upgrade is completed, remove the USB flash drive, restore the Host Port USB cable to Protection Switch, power cycle the primary radio and wait for it to become standby.
 9. Set the Hardware Manual Lock switch to the Auto position. The secondary radio will remain active and the primary radio will remain standby. To set the primary radio to active, use the hardware lock switch to select the primary radio and wait for it to become active, then set the hardware manual lock switch to the Auto position.
-

4. Software Enhancements

4.1. Major Enhancements

Terminal Server Operation

In software version 1.4.1, support has been added for Terminal Server operation.

The Terminal Server operating mode provides encapsulation of serial data into an IP packet (TCP or UDP). A server connected to a base station Ethernet port can communicate with all remote station Ethernet ports and serial ports.

SuperVisor Software Tab

In software version 1.4.1, a new tab has been added to the SuperVisor menu to manage Software upgrades.

Network Software Upgrade

In software version 1.4.1, the radio software can now be upgraded on an entire Aprisa SR radio network remotely over the radio link from the base station.

This process involves four steps:

1. File transfer of the new software to base station
2. Distribution of the new software to remote stations
3. Activation of the new software on remote stations
4. Finally, activation of the new software on the base station

See Aprisa SR User Manual 1.4.1 for more information.

Network View

In software version 1.4.1, a Network View feature has been added to SuperVisor. Network View is an overview of the health of the network providing the ability to investigate issues directly within SuperVisor. When open, it provides a continuous monitor of the network.

This feature includes:

- Summary
An overall summary view of the alarm status of all registered remote stations for the base station.
- Exceptions
A list of all registered remote radios that are in an alarmed state or have stopped responding to the SuperVisor polling.
- View
A complete list of all registered remote radios. It is similar to the Exceptions page but it shows all radios, not limited to the radios with alarms.

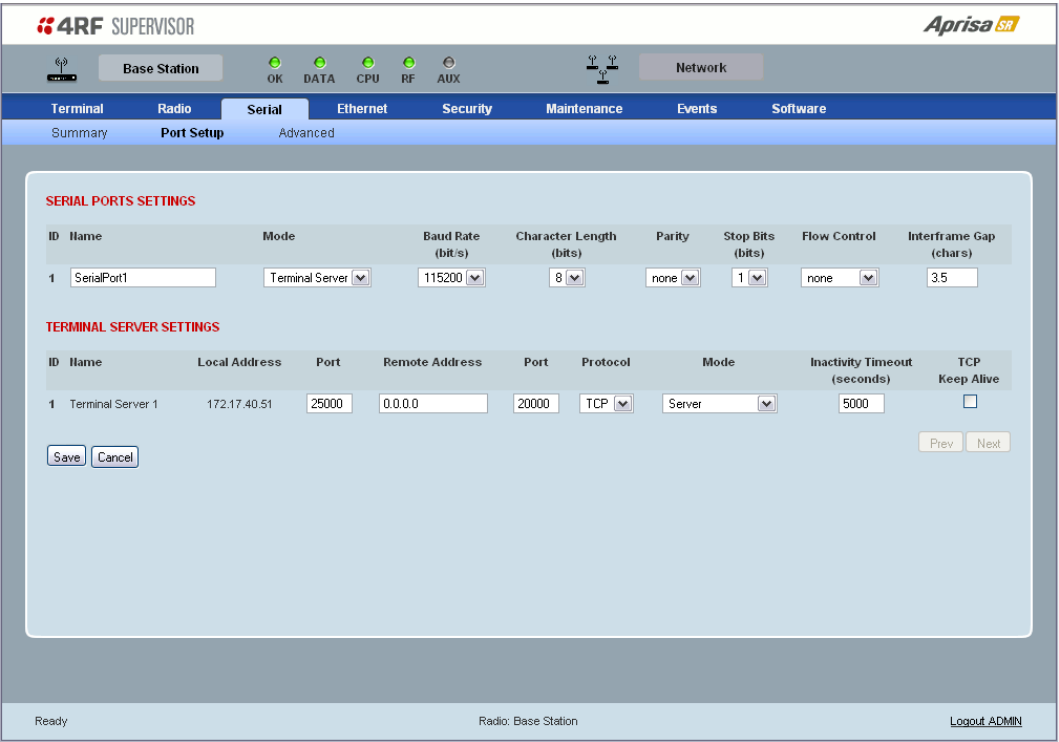
SNMPv2 Notification Type

In software version 1.4.1, support has been added for a SNMPv2 Notification Type of 'Inform Request'. This provides a SNMPv2 Inform Request trap event including trap retry and acknowledgement.

4.2. Minor Enhancements

Serial Port
Config

In software version 1.4.1, SuperVisor > Serial > Port Setup has been enhanced to enable the additions of Terminal Server settings:



SERIAL PORTS SETTINGS

ID	Name	Mode	Baud Rate (bit/s)	Character Length (bits)	Parity	Stop Bits (bits)	Flow Control	Interframe Gap (chars)
1	SerialPort1	Terminal Server	115200	8	none	1	none	35

TERMINAL SERVER SETTINGS

ID	Name	Local Address	Port	Remote Address	Port	Protocol	Mode	Inactivity Timeout (seconds)	TCP Keep Alive
1	Terminal Server 1	172.17.40.51	25000	0.0.0.0	20000	TCP	Server	5000	<input type="checkbox"/>

Save Cancel Prev Next

Ready Radio: Base Station Logout ADMIN

Network Table
Software
Version

In software version 1.4.1, the radio software version of the remote radios is now shown in the SuperVisor > Network Status > Network Table.

TCP
Connections

In software version 1.4.1, a page has been added to SuperVisor > Terminal called TCP Connections. This page displays the list of active TCP connections on the radio.

Non Register
Reboot

In software version 1.4.1, if a remote station cannot register with base station within 10 minutes, it will automatically reboot.

5. Software Bug Fixes

5.1. Major Bug Fixes

None

5.2. Minor Bug Fixes

Some Fields Blank with IE

Previously, when operating SuperVisor in Windows Internet Explorer 7.0 or 8.0, some text fields did not display the text. They displayed correctly in Firefox.

These fields were:

Ethernet > L2 Filtering Source MAC Address and Destination MAC Address
Security > SNMP Read Only and Read/Write
Security > Users Username and Password

This bug has been corrected in software version 1.4.1

Deleted User Defaults

Previously, if Maintenance > Defaults > Restore Factory Defaults was activated, it deleted any user defaults previously saved with Maintenance > Defaults > Save User Defaults.

This bug has been corrected in software version 1.4.1

6. Hardware Enhancements

None
