



# **Aprisa XE Software Release Notes**

## **7.1.4**

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## 1. Introduction

### Introduction

The previous Aprisa XE software version 7.0.6 was released for general use on the 6<sup>th</sup> December 2005.

There was also a Aprisa XE software version 7.0.6 Service Pack 1 which was released for general use on the 1<sup>st</sup> February 2006.

This release of Aprisa XE software version 7.1.4 was released for general use on the 3<sup>rd</sup> May 2006.

This document covers the major changes, product enhancements, new functionality, bug fixes and MIB changes since Aprisa XE software version 7.0.6.

### 4RF Support

Prior to upgrading Aprisa XE terminals with this software, please contact 4RF Customer Support at [support@4rf.com](mailto:support@4rf.com) to obtain the upgrade files and upgrade process.

Where possible, the customer should consider upgrading in a controlled environment before upgrading the entire network.

## 2. Released Files

### Releases Files

The following is a list of files released for Aprisa XE software version 7.1.4.

File Name	File Type	File Function
Rel_7_1_4.cfg	Setup File	Top Level Setup File - use when upgrading from 7.1.4 or later
release_7_1_4p.cfg	Setup File	Partial Upgrade - use first when running earlier than 7.0.6
release_7_1_4.cfg	Setup File	Full Upgrade - use when upgrading from 7.0.6 or earlier
F_7_1_4.cfg	Setup File	Firmware Config - use when upgrading from 7.1.4 or later
M_7_1_4.cfg	Setup File	Modem Config - use when upgrading from 7.1.4 or later
S_7_1_4.cfg	Setup File	Software Config - use when upgrading from 7.1.4 or later
C-fpga_E1-0-7-0.img	Image File	Motherboard 1 image file
C-fpga_E2-0-4-0.img	Image File	Motherboard 2 image file
C-fpga_E5-0-6-4.img	Image File	QJET image file
C-fpga_E7-1-3-3.img	Image File	Q4EM image file
C-fpga_E7-2-3-3.img	Image File	Q4EM image file
C-fpga_E8-1-4-0.img	Image File	DFXO image file
C-fpga_E8-2-4-0.img	Image File	DFXO image file
C-fpga_E9-0-4-0.img	Image File	DFXS image file
C-fpga_E9-1-4-0.img	Image File	DFXS image file
C-fpga_EA-0-5-1.img	Image File	Modem image file
C-fpga_EB-0-1-0.img	Image File	QV24 image file
C-fpga_EC-0-1-3.img	Image File	HSS image file
C-fpga_EC-1-1-6.img	Image File	HSS image file
C-CC-B-7_1_1.srec	Software File	Bootloader
C-CC-F-7_1_4.img	Software File	Flash File System
C-CC-K-6_0_0.img	Software File	Linux Kernel
C-CC-R-7_1_4.img	Software File	Root File System
C-crossconnect_7_1_4.cfg	Upgrade File	Cross Connect upgrade file
modem_7_1_5.cfg	Upgrade File	Modem Upgrade file
XE_300_400_synth.cfg	Upgrade File	Synthesizer Upgrade file for 300, 400 MHz frequency bands
XE_700_800_900_synth.cfg	Upgrade File	Synthesizer Upgrade file for 700, 800, 900 MHz frequency bands
XE_1400_synth.cfg	Upgrade File	Synthesizer Upgrade file for 1400 MHz frequency band
XE_2000_2500_synth.cfg	Upgrade File	Synthesizer Upgrade file for 2000, 2500 MHz frequency bands
C-crossconnect_7_1_4.jar	Java Application	Cross Connect - used when running 7.1.4 or later
crossconnect_7_1_4.jar	Java Application	Cross Connect - used when running 7.0.6 or earlier
C-ccapp_exe_7_1_4.jar	Java Application	Cross Connect (stand alone application)
4RF-MIB.mib	SNMP MIB file	Top level MIB
4RF-APRISAXE-MIB.mib	SNMP MIB file	Aprisa XE MIB
4RF-COMMON-MIB.mib	SNMP MIB file	Common MIB
4RF-PRODUCTS-MIB.mib	SNMP MIB file	Products MIB
4RF-APRISAXE-TC.mib	SNMP MIB file	Aprisa XE Textual Conventions MIB
4RF-COMMON-TC.mib	SNMP MIB file	Common Textual Conventions MIB
4RF-APRISAXE-EVENTS.mib	SNMP MIB file	Aprisa XE Events MIB

### 3. Upgrade Process

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#### Partial Upgrade Process

When performing a TFTP upgrade with this software, terminals that are currently running software version prior to 7.0.6, may require a two stage upgrade process.

Run a TFTP upgrade on the terminal with the 7\_1\_4p file. This will perform a partial upgrade which will delete unnecessary image files that might be taking up space in the Image Table (which could prevent a normal upgrade).

Reboot the terminal.

Run a TFTP upgrade on the terminal with the 7\_1\_4 file. This will perform a full upgrade.

Reboot the terminal again.

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### 4. Major Changes

#### 4.1. Synthesizer File Update

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##### Synthesizer Files Update

Synthesizer files can now be updated without the need for a new software release.

When upgrading terminals that are currently running software version 7.0.6 or earlier, the Synthesizer File appropriate for the terminal frequency band, must be uploaded to each terminal before doing the TFTP software upgrade.

Frequency Band	Synthesizer File (to be installed)
300 MHz	XE_300_400_synth.cfg
400 MHz	XE_300_400_synth.cfg
700 MHz	XE_700_800_900_synth.cfg
800 MHz	XE_700_800_900_synth.cfg
900 MHz	XE_700_800_900_synth.cfg
1400 MHz	XE_1400_synth.cfg
2000 MHz	XE_2000_2500_synth.cfg
2500 MHz	XE_2000_2500_synth.cfg

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#### 4.2. Java 1.5 JRE

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##### Java 1.5 JRE

The operation of the Aprisa XE support software, SuperVisor and the Cross Connections application both require Java 1.5 JRE (JVM) to be installed on the PC running the software.

This change to Java 1.5 from Java 1.4 was required to make use of the enhancements in memory management in Java 1.5. Using Java 1.4 may cause the software to 'crash' after a long period of operation due to memory leakage.

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## 5. SuperVisor

### 5.1. SuperVisor Enhancements

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#### MHSB switchover alarm LED

A "MHSB Switch" alarm LED was added to the SuperVisor Alarm summary page, that will be displayed only in MHSB mode, to indicate there has been a Switch over event from the active to the standby.

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#### MHSB Switchover alarm clearing

When a MHSB Switchover occurs, an alarm is latched indicating the event. The clearing of this alarm has been moved from the MHSB menu to the Alarms Summary page where the alarm is viewed.

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#### QJET AIS output alarm change

The QJET AIS alarm has been renamed "AIS output" to indicate the output of AIS on the port.  
This alarm is no longer generated during a QJET LOS (Loss Of Signal) state.

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#### Terminal clocking from unframed E1

The option has been added to allow an unframed E1 port to be used as a primary / secondary terminal clock source.

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#### DFXO On Hook Speed

The DFXO Control option of "On-hook Speed" has been moved from the RINGER SETTINGS grouping to the SIGNALLING grouping.

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#### DFXO Control options changed

Some DFXO control options used selection choices of values such as High, Medium and Low. The control options changed were Ringing Setting options of 'Impedance' and 'Detection Threshold' and Signalling option of 'On Hook Speed'.

These control options have been changed to show the actual parameter values e.g. the 'Ringer Detection Threshold' had selection choices of Low, Medium and High. These are now 16 Vrms, 26 Vrms and 49 Vrms.

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#### DFXO Control options deleted

The DFXO control options of 'Min Loop Current' and 'Tip Ring Voltage' have been deleted and the values set to the 10mA and DCT of 3.5 V respectively.

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#### Clock source option changed

The clock source selection on the 'Clocking' page has been changed from radio buttons to a drop-down list of options.

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#### MAC address OID

A read-only OID has been added to the 4RF-COMMON-MIB MIB called 'fourRFSsystemMACAddress' which retrieves the MAC address of the terminal. The result is also displayed on SuperVisor Support Summary page.

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#### Radio settings validity check

When entering Basic Radio Settings of Modulation and TX Output power, the entered values are now checked to determine if they are valid for the channel spacings and modulations.

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#### **External Alarms**

The External Alarm settings have been changed to simplify the setup.

The external alarm outputs can now be mapped to remote external alarm inputs, local or remote major or minor alarms.

The external alarm out state names have been changed from Active Open / Active Closed to Normally Open / Normally Closed.

The external alarm inputs can now be set to 'display locally' if required and the 'severity' can be assigned as 'major' or 'minor'.

The external alarm input state names have been changed from Active Closed / Active Open to Loop Current / No Loop Current.

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#### **User Details Confirm Password**

A 'Confirm password' field has been added to the 'User Details' page for password confirmation.

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#### **Session Details Access Count**

The Maintenance > User Admin > Session Details 'Access Count' field has been removed as it served no purpose.

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#### **Multiple browser windows**

To prevent multiple instances of the Internet browser when resetting the terminal many times, the SuperVisor main screen "Use pop-up window" tick box default has been set to OFF.

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#### **Reset added to quick links box**

The 'reset' shortcut has been added to the quick links box as a reset is often required after a TFTP upgrade.

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#### **Daylight Savings tick box removed**

The Daylight Savings tick box has been removed from the Terminal > Advanced Terminal Settings page as there was no way of automatically keeping track of when daylight savings occurred in each location.

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#### **Loopback LED indications**

Previously, alarm LEDs flashed green when a loopback was enabled irrespective of any existing alarm (colour).

Now, when a loopback is enabled, the alarm LED remains the same colour of the existing alarm state but will also flash.

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#### **RSSI alarm thresholds**

A 'RSSI thresholds' page has been added which allows the RSSI alarm thresholds to be configured over the adjustment range of -40 dBm to -110 dBm for each modulation type. The alarm threshold has a +1 dB hysteresis for the inactive state.

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#### **New 25 kHz and 50 kHz support**

Support has been added for the new 25 kHz and 50 kHz channel spacings. These are only available in the 300 and 400 MHz frequency bands.

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## 5.2. SuperVisor Bug Fixes

<b>Menu Item Command Names</b>	<p>Previously, there were some Menu Item Command Names which were inconsistent with the titles of the pages they invoked e.g. The menu item 'Interface Summary' invoked the page titled 'Interface Table'.</p> <p>These inconsistencies have been corrected in 7.1.4.</p>
<b>Long Strings In Entry Fields</b>	<p>Previously, some entry fields in the Local &gt; Terminal &gt; Basic page allowed long data strings to be entered which then wrapped making it hard to read e.g. Location and Contact Details fields.</p> <p>The length of the string that can be entered in these fields has been restricted in 7.1.4 .</p>
<b>Modem card not reported</b>	<p>Previously, the modem card details were not displayed in the menu item Local &gt; Maintenance &gt; Support summary.</p> <p>The modem card details are now shown in 7.1.4.</p>
<b>View user able to clear the alarm history</b>	<p>Previously, a user setup with a User Group of 'view' was able to access the menu item 'Clear Alarm History' and clear the alarm history for all users.</p> <p>A user setup in the 'view' User Group is not able to clear the alarm history in 7.1.4.</p>
<b>DFXS gain range error</b>	<p>The last high gain step on the DFXS interface card did not function correctly (input gain step -9.5 dB and output gain step +3.0 dB).</p> <p>The DFXS 'input gain' adjustment range has been changed to +3.0 to -9.0 dB and the 'output gain' adjustment range has been changed to +2.5 to -9.5 dB in 7.1.4.</p>
<b>DFXO billing tone detection bandwidth options</b>	<p>Previously, the selection options of DFXO billing tone detection bandwidths on the DFXO Billing Tone Advanced page were given as 1.5%, 3.5%, 5.5% and 7.5% which incorrectly implied an increase (positive) in bandwidth only.</p> <p>The selection options have been changed in 7.1.4 to +/-1.5%, +/-3.5%, +/-5.5% and +/-7.5% to accurately define the bandwidth of billing tone detection (both positive and negative deviation from the nominal billing frequency).</p>
<b>QJET transmit bit rate during link startup</b>	<p>Previously, while the RF link was initializing, the QJET interface card used a free running clock for the transmit stream which was outside the 2048 kbit/s G.703 frequency specification of <math>\pm 50</math> ppm.</p> <p>The problem was corrected in 7.1.4 by sending AIS until the link has established .</p>

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**E1 NUBs not  
transported in  
PCM30 modes**

Previously, E1 National Use Bits (NUBs in TS0 bits Sa4 to Sa8) were transported over the RF link in PCM31 modes but were not transported over the RF link in PCM30 modes.

This has been corrected in 7.1.4.

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**Receiver RSSI  
Alarm**

Previously, after changing the terminal frequency or modulation, the terminal would produce a 'Receiver RSSI Alarm' even when the actual RSSI was within allowable thresholds.

This has been corrected in 7.1.4.

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## 6. Cross Connection Application

### 6.1. Cross Connections Application Enhancements

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#### Tool Tips

Tool Tips have been added to the Cross Connections application in the form of notes that appear when the cursor is moved over visual objects on the screen.

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#### Setting of IP addresses

Menu options of "Set local terminal address" and "Set remote terminal address" have been added to the Cross Connections application Local and Remote menus to set the IP addresses of the terminals being configured.

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#### Connection Highlight

Clicking on a connection now highlights all the bits of a connection (red) to distinguish it from other adjacent connections.

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#### Symmetrical Connections Wizard

A Symmetrical Connections Wizard has been added to the Cross Connections application which simplifies the cross connection configuration when the terminals are fitted with symmetrical / matching interface types.

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#### Startup screen maximized

The Cross Connections application now starts up in the maximized screen mode.

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### 6.2. Cross Connections Application Bug Fixes

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#### New Splash Screen

Previously, the Cross connection application splash screen was too small to display the text correctly.

The splash screen has been enlarged to allow all the text to be displayed correctly.

---

#### Scrolling problem when dragging connections

Previously, when dragging connections from an interface card to another card located further down the page, the application would not scroll to give access to the required connections.

The scrolling action has been corrected when dragging connections in 7.1.4.

---

#### Non related cross connections deleted

Cross connections that are setup on an interface card which is subsequently removed from a terminal are automatically deleted. However, other cross connections that were previously associated with the card removed from the terminal were incorrectly deleted.

This has been corrected in 7.1.4.

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#### DFXO / DFXS Signalling selection field

Previously, the cross connections 'signalling' selection field value for DFXO / DFXS interface cards can displayed incorrectly if port 2 had a signalling connection and port 1 did not.

This has been corrected in 7.1.4.

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**Cross connections on same QJET card**

Previously, dropping and inserting bits (including TS0 NUB bits) between ports on the same QJET interface card did not work but also caused previously operational timeslot drop and insert cross connections to fail.

This has been corrected in 7.1.4.

(Note: dropping and inserting bits within the same port of an E1 interface is not possible)

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**QJET local connections fail when RF link lost**

Previously, local drop & insert traffic connections between local QJET E1 ports would stop operating when the RF link went down.

Local drop & insert traffic connections between local QJET E1 ports will now continue to work in 7.1.4 even if the RF link goes down.

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**Grouped QJET cross connections**

Previously, mapping of grouped QJET cross connections across multiple timeslots including CAS, created two grouped cross connections. One for the E1 data and one for the E1 CAS.

Multiple timeslot cross connections including CAS are now mapped as one cross connection in 7.1.4.

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**Changing framing mode on QJET**

Previously, if you changed the QJET framing mode from PCM30x to PCM31x without first deleting existing CAS connections, the CAS connections were deleted but the E1 CAS grid did not grey out and change to PCM31x mode.

This has been corrected in 7.1.4.

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**QJET delete selected connections**

Previously, a right click on a QJET connection popped up a dialog box but the 'delete selected connections' menu item did not delete the selected item.

This has been corrected in 7.1.4.

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## 7. Setup Menu

### 7.1. Setup Enhancements

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#### Display of SNMP Settings

A new menu item 'Display SNMP Settings' has been added to the setup menu item 4 to view the currently set SNMP settings (IP addresses and TRAP community)

- 4) Configure SNMP
    - 1) Display SNMP Settings
    - 2) Set Community String
- 

## 8. MIB Changes

### 8.1. MIB Bug Fixes

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#### Alarm OIDs not working

Previously, three MIB objects in the parent object 'aprisaXETxSynthOutOfLockAlarm' did not function correctly:

- aprisaXETxSynthOutOfLockAlarmStatus
- aprisaXETxSynthOutOfLockAlarmSeverity
- aprisaXETxSynthOutOfLockAlarmEnabled

This has been corrected in 7.1.4.

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## 8.2. New MIB Objects

Object Type	Parent	Parent Object	Object ID	Syntax	Description
OBJECT IDENTIFIER	5	aprisaXEEExternalAlarms	aprisaXEEExternalAlarmOutputOne		This object is an Object Identifier for aprisaXEEExternalAlarmOutputOne.
OBJECT IDENTIFIER	6	aprisaXEEExternalAlarms	aprisaXEEExternalAlarmOutputTwo		This object is an Object Identifier for aprisaXEEExternalAlarmOutputTwo.
OBJECT IDENTIFIER	7	aprisaXEEExternalAlarms	aprisaXEEExternalAlarmOutputThree		This object is an Object Identifier for aprisaXEEExternalAlarmOutputThree.
OBJECT IDENTIFIER	8	aprisaXEEExternalAlarms	aprisaXEEExternalAlarmOutputFour		This object is an Object Identifier for aprisaXEEExternalAlarmOutputFour.
OBJECT-TYPE	1	aprisaXEEExternalAlarmOutputOne	aprisaXEEExternalAlarmOutputOneStatus	FourRFAlarmStatus noAlarm (0), informationAlarm (1), warningAlarm (2), minorAlarm (3), majorAlarm (4), criticalAlarm (5)	The status of the first external alarm output.
OBJECT-TYPE	1	aprisaXEEExternalAlarmOutputTwo	aprisaXEEExternalAlarmOutputTwoStatus	FourRFAlarmStatus noAlarm (0), informationAlarm (1), warningAlarm (2), minorAlarm (3), majorAlarm (4), criticalAlarm (5)	The status of the second external alarm output.
OBJECT-TYPE	1	aprisaXEEExternalAlarmOutputThree	aprisaXEEExternalAlarmOutputThreeStatus	FourRFAlarmStatus noAlarm (0), informationAlarm (1), warningAlarm (2), minorAlarm (3), majorAlarm (4), criticalAlarm (5)	The status of the third external alarm output.
OBJECT-TYPE	1	aprisaXEEExternalAlarmOutputFour	aprisaXEEExternalAlarmOutputFourStatus	FourRFAlarmStatus noAlarm (0), informationAlarm (1), warningAlarm (2), minorAlarm (3), majorAlarm (4), criticalAlarm (5)	The status of the fourth external alarm output.
OBJECT-TYPE	2	aprisaXEEExternalAlarmOutputTwo	aprisaXEEExternalAlarmOutputTwoMapping	AprisaXEAlarmMapping none(0), localMajor(1), localMinor(2), remoteMajor(3), remoteMinor(4), remoteInput1(5), remoteInput2(6)	This defines how the second external alarm output is mapped to the alarms.
OBJECT-TYPE	2	aprisaXEEExternalAlarmOutputThree	aprisaXEEExternalAlarmOutputThreeMapping	AprisaXEAlarmMapping none(0), localMajor(1), localMinor(2), remoteMajor(3), remoteMinor(4), remoteInput1(5), remoteInput2(6)	This defines how the third external alarm output is mapped to the alarms.
OBJECT-TYPE	2	aprisaXEEExternalAlarmOutputFour	aprisaXEEExternalAlarmOutputFourMapping	AprisaXEAlarmMapping none(0), localMajor(1), localMinor(2), remoteMajor(3), remoteMinor(4), remoteInput1(5), remoteInput2(6)	This defines how the fourth external alarm output is mapped to the alarms.

Object Type	Parent	Parent Object	Object ID	Syntax	Description
OBJECT-TYPE	2	aprisaXEExternalAlarmOutputOne	aprisaXEExternalAlarmOutputOneMapping	AprisaXEAlarmMapping none(0), localMajor(1), localMinor(2), remoteMajor(3), remoteMinor(4), remoteInput1(5), remoteInput2(6)	This defines how the first external alarm output is mapped to the alarms.
OBJECT-TYPE	5	aprisaXEMHSB	aprisaXEMHSBSwitchoverStatus	FourRFAlarmStatus noAlarm (0), informationAlarm (1), warningAlarm (2), minorAlarm (3), majorAlarm (4), criticalAlarm (5)	Status of the alarm reflecting if a switchover has occurred
OBJECT-TYPE	6	fourRFWebUserEntry	fourRFWebUserPasswordConfirm	OCTET STRING(SIZE(4..32))	Dummy OID used for password confirmation in the web management interface
OBJECT-TYPE	11	aprisaXEModem	aprisaXEModemConfigVersion	INTEGER	Modem Configuration file version
OBJECT-TYPE	17	fourRFSysm	fourRFSysmMACAddress	DisplayString (SIZE (0..32))	The MAC Address for the terminal.
OBJECT-TYPE	21	aprisaXETerminal	aprisaXETerminalMuxStatus	none (0), muxOnly (1)	This indicates if the terminal is operating in Mux mode
OBJECT-TYPE	22	aprisaXETerminal	aprisaXETerminalBootloaderDataVersion	Unsigned32	This indicates the data version of the shared data field in the bootloader
OBJECT-TYPE	32	aprisaXEReceiver	aprisaXEReceiverRSSIThresQPSKLowerOn	Integer32(-110..-40)	The QPSK Lower ON RSSI Threshold.
OBJECT-TYPE	33	aprisaXEReceiver	aprisaXEReceiverRSSIThres16QAMLowerOn	Integer32(-110..-40)	The 16QAM Lower ON RSSI Threshold.
OBJECT-TYPE	34	aprisaXEReceiver	aprisaXEReceiverRSSIThres32QAMLowerOn	Integer32(-110..-40)	The 32QAM Lower ON RSSI Threshold.
OBJECT-TYPE	35	aprisaXEReceiver	aprisaXEReceiverRSSIThres64QAMLowerOn	Integer32(-110..-40)	The 64QAM Lower ON RSSI Threshold.
OBJECT-TYPE	36	aprisaXEReceiver	aprisaXEReceiverSynthFileVersion	INTEGER	The version of the Synth File loaded from the filesystem
OBJECT-TYPE	37	aprisaXETransmitter	aprisaXETransmitterTcxoAdjustment	txTCXOAdjustmentPosFive(0), txTCXOAdjustmentPosOne(1), txTCXOAdjustmentZero(2), txTCXOAdjustmentNegOne(3), txTCXOAdjustmentNegFive(4)	The TX TCXO adjustment to be made by the customer, to tune the TCXO. This is a shift in DAC steps.
OBJECT-TYPE	38	aprisaXETransmitter	aprisaXETransmitterSynthFileVersion	INTEGER	The version of the Synth File loaded from the filesystem

### 8.3. New MIB Events

Object Type	Parent	Parent Object	Object ID	Event	Description
NOTIFICATION-TYPE	35	aprisaXELinkAlarmsEventsV2	aprisaXEModemUCEPresentEvent	aprisaXEEventAlarmStatus	Event indicating the presence of uncorrectable errors.
NOTIFICATION-TYPE	130	aprisaXELinkAlarmsEventsV2	aprisaXEMhsbSwitchToStandbyEvent	aprisaXEEventAlarmStatus	Event indicating a Monitored Hot Standby switch to Standby Event.
NOTIFICATION-TYPE	131	aprisaXELinkAlarmsEventsV2	aprisaXEAlternateImageTableEvent	aprisaXEEventAlarmStatus	Event indicating an Alternate Image Table Event.
NOTIFICATION-TYPE	132	aprisaXELinkAlarmsEventsV2	aprisaXEDefaultImageTableEvent	aprisaXEEventAlarmStatus	Event indicating a Default Image Table Event.

## 9. Backward Compatibility Issues

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### Hardware Variants

Any hardware variant of Aprisa XE terminal can be upgraded with this software.

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### Link Software

Aprisa XE radio links with different software versions can exist in the same network, however, both terminals of an individual link must be running the same software version.

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## 10. Recommendations

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### Java 1.5 JRE

That all PCs running the Aprisa XE support software, SuperVisor and the Cross Connections application be upgraded to Java 1.5 JRE (JVM).

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End