

XVP-3901 – Upgrade Package 9.7.4

Upgrade Package Release History

Release Version	Comprising:		Release Date	Version Details	User Manual for this release (Miranda document #)
	Firmware Version	Software Version			
9.7.4	9.7.4 (RC5)	9.7.4	2015.04.24	(go)	M886-9900-330
9.7.4	9.7.4 (RC1)	9.7.4	2015.02.26	(go)	M886-9900-330
3.3.1	3.3.1		2014.05.16	(go)	M886-9900-330
3.3.0	3.3.0	1.0.0	2014.03.31	(go)	M886-9900-330
3.2.0	3.2.0		2013-01-25	(go)	M886-9900-320
3.1.2	3.1.2		2012-04-04	(go)	M886-9900-312
3.1.0	3.1.0		2011-08-29	(go)	M886-9900-310
3.0.2	3.0.2		2011-06-03	(go)	M886-9900-300
3.0.0	3.0.0		2011-03-31	(go)	M886-9900-300
3.4.9	3.4.9		2010-12-02	(go)	M886-9900-340

NOTES: The iControl compatibilities shown below are officially supported by Miranda. Earlier versions may also work, with bugs or limited features.
The Reference number (Ref#) given for each feature or bug in these Release Notes refers to internal Miranda documentation.

UPGRADE PACKAGE: 9.7.4 RC5 (CPU=39, FPGA_I=2186, FPGA_V=1165)

Release date: 2015-04-24

iControl compatibility: 5.0 (build 17) and up

iControl Solo compatibility: 6.0 (build 89) and up

RCP-200 compatibility: NA

Hardware compatibility: This upgrade package applies to all existing hardware assemblies.

ENHANCEMENTS & NEW FEATURES

Ref#	Description															
XVP3901-1654	<p>FCC requirement for emergency Audio Description</p> <p>Allow the GPI-3 and GPI-4 to override the "Automatic Preset Recall" feature to load their respective presets (GPI-3 loads preset-3 and GPI-4 loads preset-4). Releasing the GPI returns to the "Automatic Preset Recall" mode.</p> <p>Example of usage:</p> <ul style="list-style-type: none">• "Automatic Preset Recall" is activated normally• GPI-3 is activated → "Automatic Preset Recall" is temporarily deactivated and preset-3 is loaded• GPI-3 is released "Automatic Preset Recall" mode resumes normally															
DSERV-1272	<p>Modification of Loudness labels in the iControl service panel</p> <table><tr><td>« EBU R128-2010 »</td><td>→</td><td>« EBU R128-2010 (ITU BS.1770) »</td></tr><tr><td>« EBU R128-2011 »</td><td>→</td><td>« EBU R128-2014 (ITU BS.1770-3) »</td></tr><tr><td>« A85 ITU BS.1770-1 »</td><td>→</td><td>« ATSC A85:2011 (ITU BS.1770-1) »</td></tr><tr><td>« A85 ITU BS.1770-2 »</td><td>→</td><td>« ATSC A85:2013 (ITU BS.1770-3) »</td></tr><tr><td>« ARIB TR-B32 »</td><td>→</td><td>« ARIB TR-B32 (ITU BS.1770-3) »</td></tr></table>	« EBU R128-2010 »	→	« EBU R128-2010 (ITU BS.1770) »	« EBU R128-2011 »	→	« EBU R128-2014 (ITU BS.1770-3) »	« A85 ITU BS.1770-1 »	→	« ATSC A85:2011 (ITU BS.1770-1) »	« A85 ITU BS.1770-2 »	→	« ATSC A85:2013 (ITU BS.1770-3) »	« ARIB TR-B32 »	→	« ARIB TR-B32 (ITU BS.1770-3) »
« EBU R128-2010 »	→	« EBU R128-2010 (ITU BS.1770) »														
« EBU R128-2011 »	→	« EBU R128-2014 (ITU BS.1770-3) »														
« A85 ITU BS.1770-1 »	→	« ATSC A85:2011 (ITU BS.1770-1) »														
« A85 ITU BS.1770-2 »	→	« ATSC A85:2013 (ITU BS.1770-3) »														
« ARIB TR-B32 »	→	« ARIB TR-B32 (ITU BS.1770-3) »														

BUGS FIXED IN THIS RELEASE

Ref #	Description
XVP3901-1670	<p>PRESETs don't work with new hardware/firmware supporting new dataflash When loading "USER PRESET 2", the ALC gets loaded with corrupted values</p> <p>WORKAROUND: Do not use the "USER PRESET 2".</p>

KNOWN BUGS & LIMITATIONS

Ref #	Description
XVP3901-1673	<p>Profile copy of USER PRESETs does not work. Using the profile function to copy a user preset from one card to another does not work: the destination card user preset will be corrupted when recalled (the same is true for all users 1 to 5). The problem does not occur if we use the "All" profile. WORKAROUND: Use the "Copy All" function.</p>
XVP3901-1192	Do not use this package to update a 3DX-3901 in XVP emulation mode.
XVP3901-1526	SCTE-104 does not pass through on a Down/Up conversion.
XVP3901-1526	<p>Wrong default values after card update. This can happen after updating to version 330 from a version previous to 320. The loudness global configuration may not have nominal values Two workarounds are possible: 1) Reset the card parameters to the factory defaults. 2) Reselect the meter mode to force default values.</p>
XVP3901-1605	GPO 5 and GPO 6 are not available with XVP3901-FS-R rear.
ICONROL-16023	Disabling Loudness Monitoring interrupts momentary loudness logging.

	<p>If the XVP-3901 card is logging loudness data and loudness monitoring is enabled then disabled, the loudness logging activity may be interrupted, i.e. the log file will close while a new one is created. The overall effect is a loss of logged loudness data.</p>
ICONTROL-16024	<p>Loudness text alarm not reported to iControl GSM.</p> <p>In the Alarm Configuration, the text alarm for loudness no longer represents the cards ability to measure multiple loudness programs.</p>
RCP200-930	<p>XVP-3901 version 320+ not supported.</p> <p>New features introduced in versions 320 and 330 and listed in this Release Note are not supported RCP-200 v1.8.</p>

UPGRADE PACKAGE: 9.7.4 RC1

Release date: 2015-02-26

iControl compatibility: 5.0 (build 17) and up

iControl Solo compatibility: 6.0 (build 89) and up

RCP-200 compatibility: NA

Hardware compatibility: This upgrade package applies to all existing hardware assemblies.

ENHANCEMENTS & NEW FEATURES

Ref#	Description
XVP3901-1654	<p>FCC requirement for emergency Audio Description</p> <p>Allow the GPI-3 and GPI-4 to override the "Automatic Preset Recall" feature to load their respective presets (GPI-3 loads preset-3 and GPI-4 loads preset-4). Releasing the GPI returns to the "Automatic Preset Recall" mode.</p> <p>Example of usage:</p> <ul style="list-style-type: none"> • "Automatic Preset Recall" is activated normally • GPI-3 is activated → "Automatic Preset Recall" is temporarily deactivated and preset-3 is loaded • GPI-3 is released "Automatic Preset Recall" mode resumes normally

BUGS FIXED IN THIS RELEASE

Ref #	Description
XVP3901-1655	<p>Micro-controller crashing when communication is overloaded</p> <p>When multiple clients are connected to the Densité frame with a controller of version 212 and later, the XVP can become unresponsive. A bug in the communication engine of the card has been exposed with the higher performance of the newer versions of the Densité controller.</p> <p>WORKAROUNDS:</p> <ul style="list-style-type: none"> • Downgrade the Densité controller of the frame to version 204

KNOWN BUGS & LIMITATIONS

Ref #	Description
XVP3901-1192	Do not use this package to update a 3DX-3901 in XVP emulation mode.
XVP3901-1526	SCTE-104 does not pass through on a Down/Up conversion.
XVP3901-1526	<p>Wrong default values after card update.</p> <p>This can happen after updating to version 330 from a version previous to 320. The loudness global configuration may not have nominal values</p> <p>Two workarounds are possible:</p> <ol style="list-style-type: none"> 1) Reset the card parameters to the factory defaults. 2) Reselect the meter mode to force default values.
XVP3901-1605	GPO 5 and GPO 6 are not available with XVP3901-FS-R rear.
ICONTROL-16023	<p>Disabling Loudness Monitoring interrupts momentary loudness logging.</p> <p>If the XVP-3901 card is logging loudness data and loudness monitoring is enabled then disabled, the loudness logging activity may be interrupted, i.e. the log file will close while a new one is created. The overall effect is a loss of logged loudness data.</p>
ICONTROL-16024	<p>Loudness text alarm not reported to iControl GSM.</p> <p>In the Alarm Configuration, the text alarm for loudness no longer represents the cards ability to measure multiple loudness programs.</p>
RCP200-930	<p>XVP-3901 version 320+ not supported.</p> <p>New features introduced in versions 320 and 330 and listed in this Release Note are not supported RCP-200 v1.8.</p>

UPGRADE PACKAGE: 3.3.1

Release date: 2014-05-16

iControl compatibility: 5.0 (build 17) and up

iControl Solo compatibility: 6.0 (build 89) and up

RCP-200 compatibility: NA

Custom software compatibility: NA

Hardware compatibility: This upgrade package applies to all existing hardware assemblies.

ENHANCEMENTS & NEW FEATURES

Ref#	Description
XVP3901-1590	FLASH AT45DB642D end of life Added support for the new flash AT45DB621E

BUGS FIXED IN THIS RELEASE

Ref #	Description
XVP3901-1543	OP-47 payloads carrying 2 packets with the same line will lose info This bug concerns HD to SD conversions. When a second packet (or payload) is detected with the same line number, this data is pushed towards the next field so that it can be downconverted properly.

KNOWN BUGS & LIMITATIONS

Ref #	Description
XVP3901-1192	Do not use this package to update a 3DX-3901 in XVP emulation mode.
XVP3901-	SCTE-104 does not pass through on a Down/Up conversion.

1526	
XVP3901-1526	<p>Wrong default values after card update.</p> <p>This can happen after updating to version 330 from a version previous to 320. The loudness global configuration may not have nominal values</p> <p>Two workarounds are possible:</p> <ol style="list-style-type: none"> 1) Reset the card parameters to the factory defaults. 2) Reselect the meter mode to force default values.
XVP3901-1605	<p>GPO 5 and GPO 6 are not available with XVP3901-FS-R rear.</p>
ICONCONTROL-16023	<p>Disabling Loudness Monitoring interrupts momentary loudness logging.</p> <p>If the XVP-3901 card is logging loudness data and loudness monitoring is enabled then disabled, the loudness logging activity may be interrupted, i.e. the log file will close while a new one is created. The overall effect is a loss of logged loudness data.</p>
ICONCONTROL-16024	<p>Loudness text alarm not reported to iControl GSM.</p> <p>In the Alarm Configuration, the text alarm for loudness no longer represents the cards ability to measure multiple loudness programs.</p>
RCP200-930	<p>XVP-3901 version 320+ not supported.</p> <p>New features introduced in versions 320 and 330 and listed in this Release Note are not supported RCP-200 v1.8.</p>

UPGRADE PACKAGE: 3.3.0

Release date: [2014-03-31](#)

iControl compatibility: [5.0 \(build 17\)](#)

iControl Solo compatibility: [6.0 \(build 89\)](#)

RCP-200 compatibility: [NA](#)

Custom software compatibility: [NA](#)

Hardware compatibility: [This upgrade package applies to all existing hardware assemblies.](#)

ENHANCEMENTS & NEW FEATURES

Ref#	Description
XVP3901-1601	Add support for Dolby Digital Plus encoding. Support the MOD-DOLBY-ENC-D-2 v5.1 module.

BUGS FIXED IN THIS RELEASE

Ref #	Description
XVP3901-1594	Dolby Digital Encoder: pre-encoded (non-PCM) input data corrupted in pass-through mode. The sample rate converter (SRC) on the MOD-DOLBY-ENC-D module was always activated thereby modifying and corrupting pre-encoded data passing through the encoder.
XVP3901-1600	Dolby module upgrade always fails if a previous module upgrade failed. If a Dolby module upgrade fails, for example when the upgrade is interrupted between 0 and 100%, the module will remain in boot mode even after reinserting the XVP-3901 card.

KNOWN BUGS & LIMITATIONS

Ref #	Description
XVP3901-1192	Do not use this package to update a 3DX-3901 in XVP emulation mode.
XVP3901-1526	SCTE-104 does not pass through on a Down/Up conversion.
XVP3901-1526	<p>Wrong default values after card update.</p> <p>This can happen after updating to version 330 from a version previous to 320. The loudness global configuration may not have nominal values</p> <p>Two workarounds are possible:</p> <ol style="list-style-type: none"> 1) Reset the card parameters to the factory defaults. 2) Reselect the meter mode to force default values.
XVP3901-1605	GPO 5 and GPO 6 are not available with XVP3901-FS-R rear.
ICONTROL-16023	<p>Disabling Loudness Monitoring interrupts momentary loudness logging.</p> <p>If the XVP-3901 card is logging loudness data and loudness monitoring is enabled then disabled, the loudness logging activity may be interrupted, i.e. the log file will close while a new one is created. The overall effect is a loss of logged loudness data.</p>
ICONTROL-16024	<p>Loudness text alarm not reported to iControl GSM.</p> <p>In the Alarm Configuration, the text alarm for loudness no longer represents the cards ability to measure multiple loudness programs.</p>
RCP200-930	<p>XVP-3901 version 320+ not supported.</p> <p>New features introduced in versions 320 and 330 and listed in this Release Note are not supported RCP-200 v1.8.</p>

FIRMWARE VERSION: 320

Release date: 2013-01-25

iControl compatibility: 4.40 (build 24) and up

iControl Solo compatibility: **4.40 (build 24) and up**

RCP-200 compatibility: **Not Supported**

Custom software compatibility: **N/A**

Hardware incompatibility: **This firmware applies to all existing hardware assemblies.**

ENHANCEMENTS & NEW FEATURES

Bug#	Description
37941	Miranda ALC enhancement Added True peak. Also added preset mode : EBU R128, A85 ITU BS.1770 and ARIB
ICONTROL-12709	Loudness Logging Loudness logging up to 4 independent programs.
ICONTROL-12830	Loudness Measurement Loudness measurement compliant to EBU R128, A85 and ARIB. Loudness measurement up to 4 independent programs : short Term, Momentary and True Peak max
ICONTROL-12826	Added field selection for AFD and VLI extraction Extract AFD and VLI from : Field 1, Field 2 or Field 1&2
ICONTROL-16057	Added TX Optical Power
37726	Added XDS implementation Extract and insertion of V-Chip Program Rating. Extraction and insertion of Copy & Redistribution Control
37693	Local card edge control menu simplified, see user manual for new structure. Removed advanced configuration.

BUGFIXES

Bug#	Description
33569	Correct 1080p59/1080p50 level B Dual link VPID
34207	Distorted audio on power up or input format change
37954	Able to restore profiles from older version
37941	ALC Loudness measurement doesn't consider LFE for correction. Also weighting is applied on surround channels. As specified on ITU-r BS.1770-1
38082	Disable driver of output B on bypass relay for XVP-3901-FS-R.

KNOWN BUGS & LIMITATIONS

Bug#	Description
38062	After updating to version 320 a factory reset may be required for the loudness global configuration setting to default to nominal values, or simply reselect the meter mode to force default values.
RCP200-930	XVP3901 version 320 not supported
38030	SCTE-104 does not pass-through on a Down/Up conversion
iCONTROL-16023	Disabling Loudness Monitoring interrupt momentary loudness logging
iCONTROL-16024	Loudness text alarm not reported to iControl GSM.
29635	Do not use this package to update a 3DX-3901 in XVP emulation mode.

FIRMWARE VERSION: 312

Release date: [2012-04-04](#)

iControl compatibility: [4.11 \(build 27\) and up](#)

iControl Solo compatibility: [4.11 \(build 27\) and up](#)

RCP-200 compatibility: [1.32 and up](#)

Custom software compatibility: [N/A](#)

Hardware incompatibility: [This firmware applies to all existing hardware assemblies.](#)

BUGFIXES

Bug#	Description
001-00-007911	Rare stability issue on the video output In very rare conditions, the video output may become distorted. This fix is mostly preventive.

KNOWN BUGS & LIMITATIONS

Bug#	Description
29635	Do not use this package to update a 3DX-3901 in XVP emulation mode.

FIRMWARE VERSION: 310

Release date: [2011-08-29](#)

iControl compatibility: [4.11 \(build 27\) and up](#)

iControl Solo compatibility: [4.11 \(build 27\) and up](#)

RCP-200 compatibility: [1.32 and up](#)

Custom software compatibility: [N/A](#)

Hardware incompatibility: [This firmware applies to all existing hardware assemblies.](#)

ENHANCEMENTS & NEW FEATURES

Bug#	Description
	<p>This version includes the new Automatic Preset Recall feature.</p> <p>With this feature, the card automatically recall user presets based on audio detection scheme. For example, a 5.1/2.0 detection scheme can be used to load a predetermined User Preset if 2.0 audio is detected and a different User Preset when 5.1 is detected. This feature has been implemented in many ANC's, but always as fixed configuration. This implementation is user-configurable in iControl only.</p>

BUGFIXES

Bug#	Description
32754	Audio click on change of user preset.

KNOWN BUGS & LIMITATIONS

Bug#	Description
29635	Do not use this package to update a 3DX-3901 in XVP emulation mode.

FIRMWARE VERSION: **302**

Release date: [2011-06-03](#)

iControl compatibility: [4.0.3 \(build 65\)](#) and up

iControl Solo compatibility: [3.73 \(build 23\)](#) and up

RCP-200 compatibility: [1.32](#) and up

Custom software compatibility: [N/A](#)

Hardware incompatibility: [This firmware applies to all existing hardware assemblies.](#)

BUGFIXES

Bug#	Description
31724	Cannot set card model other than full if none of the ALC options is enabled.
31660	Output Aspect Ratio changes from 4:3 to 16:9 are not clean in Auto mode.

KNOWN BUGS & LIMITATIONS

Bug#	Description
29635	Do not use this package to update a 3DX-3901 in XVP emulation mode.

FIRMWARE VERSION: **300**

Release date: [2011-03-31](#)

iControl compatibility: [4.0.3 \(build 65\)](#) and up

iControl Solo compatibility: [3.73 \(build 23\)](#) and up

RCP-200 compatibility: [1.32](#) and up

Custom software compatibility: [N/A](#)

Hardware incompatibility: [This firmware applies to all existing hardware assemblies.](#)

ENHANCEMENTS & NEW FEATURES

Bug#	Description
30646	Support Auto-ARC using automatic 4:3/16:9 output on SD output
30650	AFD : Can now monitor and set a priority for the use of the 3 different AFD incoming flags (SMPTE-2016 AFD, VLI or WSS with 625 line systems).

30651	AFD insertion: It is now possible to insert AFD, VLI and WSS simultaneously
30648	MIRANDA ALC: supports 4 additional programs for a total of 8 programs
30647	The card does Fingerprint generation for both SD and HD outputs
24693	Supports Teletext conversion (SD) to OP-47 (HD) and OP-47 (HD) to Teletext (SD)
30408	Supports CWDM and WDM SFP Optical Plug-in Cartridges
22611	Incoming optical power is now reported.
22613	Display the manufacturer name of the SFP cartridge installed
29927	It is now possible to downscale HD signals to 704 or 720 pixel wide SD video.

BUGFIXES

Bug#	Description
27425	The Thumbnail player does not display correctly in 625 mode.
30609	PCM Audio glitch when switching between two synchronous sources connected to input 1 and input 2.
30982	AUDIO DEMUX SD : Doesn't support 8 samples per line

KNOWN BUGS & LIMITATIONS

Bug#	Description
29635	Do not use this package to update a 3DX-3901 in XVP emulation mode.

FIRMWARE VERSION: [249](#)

Release date: [2010-12-02](#)

iControl compatibility: [3.53 \(build 44\) and up](#)

iControl Solo compatibility: [3.53 \(build 5\) and up](#)

RCP-200 compatibility: [1.10 and up](#)

Custom software compatibility: [N/A](#)

Hardware incompatibility: [This firmware applies to all existing hardware assemblies.](#)

BUGFIXES

Bug#	Description
29567	Permanent audio glitches after switch to DPS source Sometimes, permanent audio distortion is heard when switching to a source coming out of a DPS-7xx from Harris due to an uneven embedded audio sample distribution. The problem does not disappear until the card is reset. This bug has been introduced around v230.
29650	ALMs stop streaming during normal operation The ALMs stop working after a certain time of normal operation. A card reset must be done to restart the ALMs. This bug has been present since the first release of the product.

KNOWN BUGS & LIMITATIONS

Bug#	Description
29635	Do not use this package to update a 3DX-3901 in XVP mode.