

945-01M03-101

IRG-3401 – Upgrade Package 1.0.1

Upgrade Package Release History

Release	Comprising:	Release		Version	User Manual for this
Version	Firmware Version	Software Version	Date	Details	ils release (Grass Valley document #)
1.0.1	1.0.1	1.0.1	2016.01.26	<u>(go)</u>	M945-9900-100
1.0.0	1.0.0	n/a	2013.09.06	<u>(go)</u>	M945-9900-100
0.0.1	0.0.1	n/a	2013.07.31	<u>(go)</u>	M945-9900-100

NOTES: The iControl compatibilities shown below are officially supported by Grass Valley. 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 Grass Valley documentation.

UPGRADE PACKAGE: 1.0.1

Release date: 2016.01.26

iControl compatibility: 5.00+

iControl Solo compatibility: 6.00+

RCP-200 compatibility: NA

Custom software compatibility: NA

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

ENHANCEMENTS & NEW FEATURES

Ref#	Description
	N/A



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BUGS FIXED IN THIS RELEASE

Ref #	Description
IRG-221	Arp request not processed after IRG-3401 reboots When configured using unicast addresses, the card streaming was not restarting by itself after a reboot. The user needs to press the apply button for the streaming to restart. This issue is now resolved and the streaming restart by itself after a reboot in unicast mode. Multicast mode was unaffected by this bug.

KNOWN BUGS & LIMITATIONS

Ref #	Description
IRG-1	Ethernet types and protocols supported This version of the IRG-3401 only supports the following protocols-: ARP; IPv4; ICMP; IGMP; UDP and TCP.
IRG-99	Power outage or card removal during upgrade Be careful not to unplug the card from the frame until the upgrade process is completed. Doing so (or a power outage when the update is in progress) may lead to corruption causing boot-up problems. This limitation should be fixed in the next release.
IRG-124	Ethernet port configuration To avoid confusion and various network problems, the IP addresses of card`s two Ethernet ports should <u>not</u> be set in the same subnet.
IRG-176	Maximum throughput accepted by the card We estimate the maximum throughput that could be handled correctly by the card's twelve gateways at 800Mbps. We strongly recommend not exceeding it. Doing so may lead to loss of packets.
IRG-191	Backup port status on the Ethernet side It is not possible to get the various stream statuses of the Ethernet backup port while using the Main port In any case, only the statuses of the "in use" port will be displayed to the user.
IRG-213	FEC packets not present in ethernet port mirroring When the Ethernet side is used as output and with port redundancy active, UDP packets carrying transport streams are transmitted simultaneously on both Ethernet ports (main and backup). This is called port mirroring. However, when FEC is used, the FEC packets won't be



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transmitted on the <u>backup</u> port. The stream will consequently be seen as a UDP-type stream on this port. This will be fixed in a future release.



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PREVIOUS RELEASES

UPGRADE PACKAGE: 1.0.0

Release date: 2013-09-06

iControl compatibility: 4.44 build 518 and up

iControl Solo compatibility: 4.44 build 518 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
	N/A

BUGS FIXED IN THIS RELEASE

Ref #	Description
IRG-158	Input buffer for the IP to ASI direction The IRG-3401 is now able to receive streams with jitter from the IP side and output it in conformance with the specifications on the ASI side as long as the jitter on the IP side stays within the Pro-MPEG Code of Practice #3 specification.
IRG-160	Inaccurate statistics in the network tab The Statistics tab has been modified and the info located there is now reliable.
IRG-167	Issues with RTP + FEC Previous issue with RTP and FEC causing loss of packets has been corrected and this mode can now be used efficiently.
IRG-194	Host messages received on Ethernet port 2 (backup port) This limitation present in the previous release has now been removed and host messages can



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now be sent and received from the backup port.

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UPGRADE PACKAGE: BETA 0.0.1 BUILD 129

Release date: 2013-07-31 iControl compatibility: 4.43

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

ENHANCEMENTS & NEW FEATURES

Ref#	Description
	N/A

BUGS FIXED IN THIS RELEASE

Ref #	Description
	N/A

KNOWN BUGS & LIMITATIONS

Ref #	Description
IRG-99	Power outage or card removal during upgrade Be careful not to unplug the card from the frame until the upgrade process is completed. Doing so (or a power outage when the update is in progress) may lead to corruption causing boot-up problems.
IRG-124	Ethernet port configuration To avoid confusion and various network problems, the IP addresses of card`s two Ethernet ports should <u>not</u> be set in the same subnet.
IRG-158	Input buffer for the IP to ASI direction When the streams received from IP contains too much jitter or are too "bursty", the IRG-3401 may not be able to output it on the ASI side correctly. The bitrate of the ASI output feed by



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	this IP socket will vary a bit more than what it should. Improvements are left to do and they are planned for the next phase.
IRG-160	Inaccurate statistics in the network tab Most of the statistics under the "Network – Statistics" tab are stuck at 0 or displayed invalid numbers. None of the information displayed in this tab should be considered for now. This should be fixed for the next phase.
IRG-167	Issues with RTP + FEC We actually have some issues with the FEC (forward error correction) that causes loss of packets and we suggest not using the RTP with FEC enabled with this version. This should be fixed for the next release.
IRG-176	Maximum throughput accepted by the card We estimate the maximum throughput that could be handled correctly by the card`s twelve gateways at 800Mbps. We still have some validation to do regarding this limit but we strongly recommend not exceeding it with this release. Doing so may lead in loss of packets.
IRG-194	Host messages received on Ethernet port 2 (backup port) Due to some limitations that should be fixed for the next release, we had to restrict the ability of Ethernet port 2 (backup port) to receive and answer to host messages received from the network. (for example, the PING command)