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NV9000 Control Software and NV9000-SE Utilities v6.8.0 and v8.0.0

Control System and Configuration Software

Release Notes

TN0116-03

08 February 2016

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Introducing NV9000 and NV9000-SE Utilities v6.8.0 and v8.0.0

The NV9000 router control system is the most broad and application-specific system available, offering the most efficient control paradigms that help operators execute signal routing fast and error-free from a highly resilient router controller platform.

The NV9000 panel series includes a wide range of highly adapted panels for superior control. The panel range includes informative and easy to use LCD relegendable panels, multi-destination panels, multi-mode button per source panels and destination/source (XY) panels.

The NV9000 control system offers a selection of two controllers. The NV960, a 2 RU enterprise range controller, is predominantly used in TV stations and larger installations; and the NV920 compact 1 RU redundant controller, which is perfectly suited for truck applications. The NV9000 control system is configured via the SE-Utilities software provided with the system.

This document lists cumulative changes to the NV9000 software and NV9000-SE Utilities software released together as version 6.8.0. The changes affect NV9000 core software, NV9000-SE Utilities, and third-party control code (as applicable).

NV9000 control software is migrating to the 64-bit Windows 10 Enterprise LTSC (Long Term Service Branch) operating system. This is an exciting transition that will bring increased stability and performance to the NV9000 family of Control Systems. The cumulative changes that make up version 6.8.0 of the control software, are being released as a 64-bit version that will run on the new NV9000 Windows 10 platform. To allow time for customers to transition from Windows Embedded XP to Windows10, Grass Valley will publish both a 32-bit (6.x.x) and a 64-bit (8.x.x) version of the software for the next year. At the end of that time, the Windows 10 software will become the main development platform for NV9000. The Windows 10 OS and version of the control software will begin shipping on new NV9000 and NV920 Control Systems in April 2016. Upgrades to currently owned NV9000 and NV920 Control Systems are available at cost. There is a hardware limitation for users of the NV9000 platform – the hardware is required to be an FR0040-30 or newer frame (The FR0040-40 is the current hardware frame for the NV960, NV965, and NV967 NV9000 systems). Please contact your regional Grass Valley salesperson for upgrade pricing and additional information.

New Features

NVSE-1248: Button for ShowLevelSet added to NV9649 panel editor

Adds button type "ShowLevelSet" to NV9649 configuration page. When added to a panel configuration and pressed, the displays change to show the levelset of the currently selected device.

NVSE-1206: Virtual XPT status persistence is now the default setting

In the past, users utilizing the virtual XPTs functionality were required to add a SysParam to their SE-Utilities configuration table to make the virtual XPTs status persist after failover and restart. SE-Utilities was changed to make that SysParam a default setting. This would need to be removed if a user would prefer that virtual XPTs do not persist.

NVPL-182: NV9649/48 SVR/CLT Allow brightness to be adjusted on a NV9649/NV9648 stack.

When using the NV9649/NV9648 panels in Server Client mode groups, this improvement allows the LCD brightness to be changed for the group. This is accomplished through the MENU | LCD CONTROL menu item on the Server panel (NV9649). A representation of each current button COLOR is shown with the option of making them 'BRIGHTER' or 'DARKER' as appropriate (this is identical to all other LCD panel LCD brightness options). Note that changing the brightness will be replicated across all Clients (NV9648) in the group as well as the Server. This is accomplished by an automatic re-boot of all panels in the group similar to what happens during a Dynamic Update for any panel in the group.

NVPL-177: NV9649/NV9648 SVR/CLT added "Show Levelset" button type.

When the NV9649 and NV9648 are in a client server group there is a new button type, "Show Levelset" that can be added to the NV9649 (Server) panel. When the Show Levelset button is selected it will high tally and the Names of the Levelsets for the STATUS, PRESET (if any), and DESTINATION will be displayed in those LED displays. In addition the Names of the Levelsets for the sources (when in Source Mode) will be displayed in the three STATUS LED displays of each of the Client panels in the group. The Names of the Levelsets for the destinations (when in Destination Mode) will also be displayed in the three STATUS LED displays of each of the Client panels in the group. When this button is active (high tally) the text "LevelSet" will be displayed in the INFO display of the server (NV9649). When this new button type is not selected (low tally) the panels in the group will all show the appropriate sources and destinations as usual.

Improvements

NVCS-4468: Last stable build of SNMP utilities now included

SNMP functionality is now being supported with the Grass Valley iControl engine. However, those customers still utilizing the NV9000 SNMP functionality will be able to continue to utilize the build included in this release. There will be no further development completed on the NV9000 SNMP utilities going forward.

Fixes

NVCS-4375: Allow group tielines to be routed as individual tielines.

Previously, if a subset of a tieline group were routed, on a subsequent take unused tielines from that group were not available. That behavior has been modified to allow the usage of individual tieline(s) from within a tieline group. Tielines in a tieline group are now associated with the source port's virtual levels. Some configuration is required. See app note 10.

NVCS-4355: Video is not automatically routed with tieline group when only audio segment is routed.

Embedded video needs to be routed when only an audio segment is routed. Tieline groups are used to group a single embedded video tieline and one or more audio tielines. The embedded video tieline must be on a non-virtual router and the audio tielines must be on a virtual router. The embedded video tieline is known as the 'key' tieline. See AppNote10.doc, SysParam EMBEDDED_VIDEO_DEST_PORT.

NVSE-1274: EC9700 configuration editor returned to stable

A change in a prior release prevented the EC9700 panel configuration editor from storing some of its configuration. This made editing of the configuration of existing EC9700 panels unworkable. This was introduced in version 6.7.0 of SE-Utilities.

Known Issues

NVSE-1274: Limited Backwards Compatibility of NV9000 control software and SE-Utilities

Due to a schema change in the control software, users will not be able to export configurations from the 6.8.0 version of SE-Utilities and import into previous versions of SE. Users of the 6.8.0 version of SE-Utilities will not be able to read nor write open configurations to NV9000 control systems that have an installed version prior to 6.8.0.

As ever, it is recommended that users read and export their current SE-Utilities configurations prior to software update. The SE-Utilities application will automatically update open configurations to the latest schema. A warning will be displayed when opening previously saved SE configurations within SE-Utilities.

Supported Routers

Company	Protocol	Interface	Functions
Grass Valley	NV Compact router (NP-16)	IP	Routing control no mnemonics

Grass Valley	NV Enterprise router (NP-17)	IP	Routing control with mnemonics
Grass Valley	Horizon TCI	RS-422	Supports connection to a Grass Valley Group Horizon series router through an HX-GPI external controller. An HX-GPI unit running TCI protocol is required for this interface to function.
Grass Valley	Jupiter (ES-Bus)	RS-422	Enables the NV9000 to switch Philips routers using a VM3000 controller. Very old Philips routers might not function with this interface. However, most late model matrices, such as Venus, are supported. A properly configured VM3000 is required. Please note: The NV9000 does not connect directly to a Philips matrix. Operation using a serial port on an SI-3000 is not recommended if the total controlled matrix space will exceed 256 × 256.
Grass Valley	Trinix	IP	Routing control
Grass Valley	Jupiter Bridge		Routing control
Grass Valley	Encore		Routing control
Stagetec	Nexus		Routing control
Utah	RCP-1	Serial	Routing control
PESA	Pesa Protocol	RS-232	Routing control
SAM	Probel SP-08	IP and Serial	Routing control
ISIS	ISIS serial	RS-422	Routing control
DataTek	D-2815 serial	RS-422	Routing control
Sony	CART+	RS-422	Routing control
Siera video			
Klotz	Klotz	Serial	Routing control
LAWO	LAWO	Serial	Routing control
DHD	DHD	Serial	Routing control

Grass Valley User Documentation

Release Notes, product manuals and other user documentation is available online via the Grass

Valley Documentation Library at <http://www.grassvalley.com/docs/page>

Access to Release Notes, product manuals and white papers is prohibited without authentication. There are multiple authentication paths available to verify your identity.

Broadcast customers:

- If you already have a Grass Valley Service Portal account, you can login via <http://www.grassvalley.com/support/portal>
- If you do not have a Grass Valley Service Portal account, you can request one via http://www.grassvalley.com/support/service_portal_access_request

Alternately:

- If you already have a Grass Valley website account, you can login via <http://www.grassvalley.com/auth>
- If you do not have a Grass Valley website account, you can sign up via <http://www.grassvalley.com/account>

Contact Us

For technical assistance, contact our international support center at 1-800-547-8949 (US and Canada) or +1 530 478 4148.

To obtain a local phone number for the support center nearest you, please consult the Contact Us section of Grass Valley's website (<http://www.grassvalley.com/contact>). An online form for e-mail contact is also available from the website.

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