Firmware revision information for:

Wizard IP

Version 3.1

(February 2006)

1. The most significant improvement in version 3.1 is the video update performance. A comprehensive review of the efficiency of both the server and viewer software has lead to an overall doubling of the update speed in normal LAN applications. To benefit from the full performance improvements you will need to apply the 3.1 upgrade to the Wizard IP and also download the latest VNC viewer from the Wizard IP.

2. A Ctrl-Alt-Del button has been added to the main menu bar to enable ‘one click’ activation of this common key code.

3. The hotkey sequence syntax has been changed to enable easier integration with KVM switches that often used typed names within their hotkey sequences (for example, the Black Box ® Octet switches).

The syntax of key macros is now one of the following:

+<key> -<key> +-<key> (<chars>)

where <key> is a key name as before, <chars> can be any characters on the keyboard. Note that the shift state won't be altered for characters so for example +shift(5%7&)-shift(5%7&) will result in "%%&&5577" appearing. The syntax +<key>- is no longer supported since it creates ambiguity.

For example, if you want to press and release the shift key twice and then type the name ‘SERVER 1’ and then press the ENTER key you would use the following sequence:

+-SHIFT+-SHIFT(SERVER 1)+ENTER

4. Sun STOP key support has been added. All the special Sun keys are now supported when accessing a Wizard IP from a Solaris box running the Enterprise Edition VNC viewer version E4.1.8 or later.

5. The speed of ISDN connections has been significantly improved. Updates on slow and high-latency links are now handled more efficiently which dramatically reduces the number of round trips that the data has to make to update screens. In extreme circumstances, the number of round trips has been reduced from ten/fifteen to one/two. Therefore the ISDN performance may be dramatically improved by version 3.1.

6. The automatic threshold calculation algorithm has been enhanced. The threshold calculation now performs several captures at higher thresholds and averages them to provide a more optimised result.

7. From version 3.1, network upgrades without the local option switch are supported. The unit can now be put into upgrade mode via the Advanced Unit Config screen and upgraded remotely without access to the unit. Then it can be upgraded in the normal way using a web browser, and rebooted into the running new firmware remotely. The upgrades are digitally signed so that an unauthorized upgrade cannot be loaded into the unit.

8. The facility to manually calibrate colours has been added. The video settings dialog has been redesigned to accommodate this functionality.

9. Network Time Protocol (NTP) has been added. This enables the unit to update its time from an NTP server. This function is accessed from a new Time & Date Config screen. Since NTP synchronises to UTC , the concept of time zones has also been added. The "Timezone specifier" field uses the standard POSIX TZ setting as described for example at:

http://www.gnu.org/software/libc/manual/html_node/TZ-Variable.html

Some examples are:

UK	GMT0BST,M3.5.0/1,M10.5.0/2
Central Europe	CET-1CEST,M3.5.0/2,M10.5.0/3
US Eastern (2006)	EST5EDT,M4.1.0/2,M10.5.0/2
US Pacific (2006)	PST8PDT,M4.1.0/2,M10.5.0/2
US Eastern (2007 on)	EST5EDT,M3.2.0/2,M11.1.0/2
US Pacific (2007 on)	PST8PDT,M3.2.0/2,M11.1.0/2

Explanation of the UK example:

- winter time is called "GMT" which is 0 hours different from UTC
- summer time is called "BST", starting at 1am on the last(5) Sunday(0) in March(3) and ending at 2am on the last(5) Sunday(0) in October(10)).

Note that the US ones will change in 2007.

10. Syslog server support has been added and may be configured in the 'Logging and Status' configuration screen. When a syslog server is defined, the unit will send a copy of the logged events to the syslog server as well as adding an entry in its own log.

HOT TIP

When using a KVM switch with an OSD reminder banner, always make sure that this is disabled before trying to calibrate the Wizard IP's video. ServSwitch Uno, Duo and Quadro switches with firmware versions 2.06 and above will do this automatically. OSD menus are not pixel-synchronised with the original video and this creates video noise. This causes the Wizard IP to detect a much higher video threshold than is needed which leads to unnecessary video artifacts. On slow modem links, OSD confirmation banners can lead to lower performance and should be disabled. If you have a KVM switch that doesn't allow the confirmation banner to be disabled you can always adjust the video threshold manually. To do this use the Controls -> Video Settings menu and alter the threshold whilst observing the video activity indicator. As a rule of thumb, the following threshold levels are typical. If you are using a CATx style KVM switch then these levels may be higher.

Resolution	Typical threshold
800 x 600	6 to 8
1024 x 768	8 to 14
1280 x 1024	20 to 25
1600 x 1200	30 to 40