Release Notes for Dominion® KX II Software Version 2.0
Version: DKX II 2.0 Release Notes, Revision 1.0
Date: May 21, 2007

Effective: Immediately.

Applicability:

New Dominion KX II models:
- DKX2-116, DKX2-132, DKX2-216, DKX2-232, DKX2-416, DKX2-432.

Note: the existing Dominion KX models will be referred to as Dominion KX I.

KX Release 2.0 is <u>not</u> applicable to the existing Dominion KX I models:
- DKX116, DKX132, DKX216, DKX232, DKX416, DKX432 and DKX464

Release Status: General Availability.

Dominion KX II Overview:

Dominion KX II is Raritan's new family of next-generation, digital KVM switches with dual power supplies and dual gigabit Ethernet ports. KX II has a new user interface supporting advanced features such as virtual media, absolute mouse synchronization and 1600x1200 remote video resolution.

Release 2.0 Overview:

Release 2.0 is the firmware release for the new Dominion KX II switches. The Release 2.0 firmware does **not** run on the existing KX I switches.

Dominion KX II Documentation:

The following additional documentation is available for the Dominion KX II:

- **Dominion KX II User Guide** – user guide to the KX II's local and remote browser based user interfaces and general KX II usage.

- **MPC/RRC User Guide** – see this user guide for MPC usage for KX II.

- **Dominion KX II Quick Setup Guide** –reference for the quick setup of the KX II.

The Dominion KX II documentation is contained on the CDROM included in the Dominion KX II package and on the Raritan Website: www.raritan.com. Please

go to the Support section and click on "Product Documentation" in the left navigation pane, or go directly to:

http://www.raritan.com/support/productdocumentation

Scroll down to the "Dominion KX II" heading to locate the documentation in PDF format. Future documentation updates will also be provided via Raritan's website.

The most current version of the KX II User Guide is now available from the KX II User Interface (remote console in the left hand information panel).

Computer Interface Module (CIM) Overview:

Dominion KX II can use following CIMs:

- **KX I DCIMs**: DCIM-PS2, DCIM-USB, DCIM-SUSB and DCIM-SUN.
- *New* **D2CIM-VUSB**: high speed, USB virtual media CIM, required for the virtual media and absolute mouse synchronization features.
- *New* **D2CIM-PWR**: required to connect a remote power strip to the KX II.
- **Select Paragon CIMS**: P2CIM-AUSB, P2CIM-PS2, P2CIM-USB, P2CIM-SUSB, P2CIM-SUN, UKVMPD, UUSBPD, UKVMC and USKVMPD.

Release 2.0 Compatibility Information:

1. All Dominion KX II models and Release 2.0 have been certified for use with CommandCenter® Secure Gateway (CC-SG) 3.1.1. CC-SG Release 3.1.1 is the first release to support the new KX II models. Customers running previous CC-SG Releases (e.g. 2.3, 3.0, 3.1) must upgrade to CC-SG 3.1.1.

2. KX II devices can be remotely accessed by two Java-based remote clients:

REMOTE CLIENT	DESCRIPTION	VERSION
Virtual KVM Client (VKC)	New Java-based client invoked from the browser-based remote user interface. **KX II switches only.**	Version 2.0
Multi-Platform Client (MPC)	Upgraded Java-based MPC with traditional Raritan user interface. **KX I and KX II switches.**	Version 5.0
Raritan Remote Client (RRC)	**RRC does not support KX II devices.**	N/A

3. If using CC-SG in Proxy mode, change the default in the Default Application tab in Application manager to Virtual KVM Client. MPC is not supported in Proxy mode.

4. SUN Java™ Runtime Environment (JRE) versions 1.4.2, 1.5 and 1.6 are supported. SUN Java Runtime Environment (JRE) 1.4.2_05 or higher build number (e.g. 1.4.2_06 or 1.4.2_07, etc.) is required. SUN Java Runtime Environment JRE 1.5 is recommended for Windows platforms and 1.4.2_x is recommended for Solaris and Linux platforms. JRE version 1.5.0_02 is explicitly not supported. For best results, we recommend that Java Plug-in Caching is not enabled.

5. If the client does not have a JRE associated with the Browser or if the JRE version is below 1.4.2_05, then a message will be displayed, and the user will be directed to install the latest version from the SUN Java website.

6. The JRE installation requires the multi language option to be enabled for Korean and other non-English language support. For a "Custom" JRE installation, must ensure that "Support for Additional Languages" is included during the installation process.

7. A new SNMP MIB is available for KX2.0 on the Raritan website in the firmware upgrade section. This should be loaded into your SNMP management system if you are enabling SNMP traps from your KX II switch.

Dominion KX Release 2.0 Features:

Dominion KX Release 2.0 includes the following new features:

1. Dual Power Supplies with Failover.

2. Universal Virtual Media. Standard on all Dominion KX II models and works with or without a centralized management system.

3. New High Speed USB CIM for Virtual Media: D2CIM-VUSB.

4. Absolute Mouse Synchronization™.

5. Dual Gigabit Ethernet Ports with Failover.

6. Common Raritan Browser-Based User Interfaces.

7. New Browser-Based Remote Console User Interface.

8. New Browser-Based Local Port.

9. Multi-Platform Client (MPC) Support for KX I and KX II switches.

10. Full Administration Features from Remote Console and Local Port.

11. Command Center Secure Gateway Support via CC-SG Release 3.1.1.

12. Advanced Encryption Standard (AES) Encryption Algorithm.

13. 1600x1200 Remote and Local Server Video Resolution – 1600x1200x60. Larger Set of Supported Server Video Resolutions.

14. Administrator Configurable Strong Password Checking.

15. New Backup and Restore Options.

16. Support of the New PX and Existing Remote Power Control Strips.

17. Remote Power Control via New Remote Power Control CIM: D2CIM-PWR.

18. KX I DCIMs and Select Paragon CIM Compatibility.

19. New KX II CIMs are Firmware Upgradeable.

20. Longer field sizes for Port Names, Passwords and KX II Device Names.

21. Secure LDAP (LDAPS) and Active Directory Group Integration.

22. Factory Reset Button on Back Panel of the KX II.

23. Remote Diagnostic Functions for Enhanced Serviceability.

24. Most of the existing KX I features are available including: PC Share mode, internal and external (LDAP, Radius) authentication, automatic color calibration, color modes, SNMP, Syslog, video scaling, and full-screen mode.

25. The KX II User Guide is available from the Remote Console User Interface.

26. Updated SSL version provides additional security

Consult the Dominion KX II Documentation for more information on the KX II features.

Important Notes and Information:

1. The Dominion KX II's default configuration is for two power supplies. If only one power input is plugged in, then the front panel LED will light red. Configure it for a single power input using the "Power Supply Setup" function on the "Device Settings" menu.

2. For reliable network communication, configure the KX II and LAN Switch to the same LAN Interface Speed and Duplex. For example, configure both the KX II and LAN Switch to Autodetect (recommended) or set both to a fixed speed/duplex such as 100Mbps/Full.

3. There are several prerequisites for Virtual Media: (1) the D2CIM-VUSB must be connected to the server's USB port, (2) the operating system (OS) must support USB connected drives, and (3) the user must have the required administrator permissions on the client, target and the KX II.

4. Not all servers and operating systems support all virtual media options. In general, modern Windows® OS' do, including Windows Vista™, 2003 Server, XP and Windows 2000 with the latest patches. Target Servers running Linux and Mac OS', when accessed from a Windows client, will generally mount CD/DVD drives, USB drives and ISO images. Mac®, Linux and Solaris™ clients can only mount ISO images from a local or remote drive. Other UNIX based OS' generally do not support virtual media.

5. When connecting to the BIOS with a virtual media drive mapped, should the BIOS not support high speed USB, then you should enable the "Use Full Speed for Virtual Media CIM" option on the Port Configuration page for that particular port and reboot the target server.

6. In general, due to varying BIOS implementations of the USB 2.0 standard, it is not always possible to boot from a virtual media drive at the BIOS level.

7. For Windows OS', do not use the "Safely Remove Hardware" function in the system tray on the target server to disconnect a mounted virtual media drive. Disconnect using the "Disconnect" command on the virtual media menu.

8. Absolute Mouse Synchronization requires support from the OS. Windows and Mac OS'generally support it. Linux and Unix based OS' (AIX, HP-UX, Solaris) generally do not.

9. When a panel is opened in the Virtual KVM Client (VKC), the client, as well as related browser tabs and windows, will wait for user input until the panel is closed.

10. Be careful of the web browser refresh or reload function/button, which has the side-effect of closing VKC sessions.

11. D2CIM-PWR must be separately ordered. It is not included with the powerstrip.

12. To use AES encryption, first ensure that your web browser supports this stronger encryption – not all browsers do. For AES, set the "Encryption mode" on the "Security Settings" panel to "AES," not "Auto" which generally results in RC4 encryption.

13. For the best possible video quality, adhere to these distance guidelines from the CIM to the KX II:

Server Video Resolution	Distance
1024x768 (and below)	150 feet
1280x1024	100 feet
1600x1200	50 feet

14. To further minimize network bandwidth for lower bandwidth situations, set the "Noise Filter" on the "Video Settings" panel in the remote clients above the default value of 2 - values of 3 or 4 are recommended.

15. Modem access as well as low bandwidth DSL connections are not supported in KX Release 2.0. Both will be available via firmware upgrade in the near future.

16. In general, most administrative functions are available on the remote and local consoles. But some functions, by their nature, are only available on one console. For example, "Factory Reset" and the "Local Port Settings" are available on the local port. Firmware Update, Backup and Restore, and the KX Diagnostics are available from the remote client.

17. When changing the various user management, device and security settings, please remember to click the "OK" button at the end of the page to save and activate your changes.

18. A subset of the KX II administration functions is available from CC-SG. To access all functions, use the Pause Management feature in CC-SG to remove the KX II device temporarily from CC-SG management. Then you can access the additional administrative functions via the KX II local or remote consoles.

19. In some environments, the "Logout Idle Users" feature on the "Security Settings" page may not log out the user when the VKC is active. This will be addressed in a firmware upgrade.

20. SUN Backgrounds: Some of the SUN background screens may not center precisely on certain SUN servers, i.e. those backgrounds with dark borders (e.g. NoBackDrop). Use another background or place a light colored icon in the upper left hand corner.

21. For Mac OS, the Safari™ browser is certified for use in KX Release 2.0. Absolute Mouse Synchronization is required for Mac servers. The "Absolute mouse scaling for MAC server" option must be enabled for the specific port on the Port Configurations page.

Firmware Upgrade Instructions

Dominion KX II models ship with the KX Release 2.0 firmware. The Release Notes for future firmware upgrades will contain the specific upgrade instructions.

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