Congratulations on your purchase of Dominion® KSX II, the industry's most full-featured, enterprise class, secure digital KVM (Keyboard, Video, Mouse) and serial console switch. This Quick Setup Guide explains how to install and configure the Dominion KSX II. Follow the instructions carefully to ensure a quick and easy installation. For more detailed information on any aspect of the Dominion KSX II, consult the accompanying User Guide accessible from the Raritan User Manuals & Quick Setup Guides CD or from the Raritan web site Product Documentation Support page.

KVM target servers are the computers that will be accessed and controlled via the KSX II. Before installing KSX II, configure all KVM target servers to ensure optimum performance. This configuration applies only to KVM target servers, not to the client workstations (remote PCs) used to access KSX II remotely. Refer to Chapter 1: Introduction, Terminology for additional information.

I. Configure the KVM Target Servers:

- Check the video resolution.
- Check the desktop background.
- Adjust the mouse settings.
- Perform OS-specific mouse and video configuration.

Supported Video Resolutions

640x350 @70 Hz	720x400 @85 Hz	1024x768 @90 Hz
640x350 @85 Hz	800x600 @56 Hz	1024x768 @100 Hz
640x400 @56 Hz	800x600 @60 Hz	1152x864 @60 Hz
640x400 @84 Hz	800x600 @70 Hz	1152x864 @70 Hz
640x400 @85 Hz	800x600 @72 Hz	1152x864 @75 Hz
640x480 @60 Hz	800x600 @75 Hz	1152x864 @85 Hz
640x480 @66.6 Hz	800x600 @85 Hz	1152x870 @75.1 Hz
640x480 @72 Hz	800x600 @90 Hz	1152x900 @66 Hz
640x480 @75 Hz	800x600 @100 Hz	1152x900 @76 Hz
640x480 @85 Hz	832x624 @75.1 Hz	1280x960 @60 Hz
640x480 @90 Hz	1024x768 @60 Hz	1280x960 @85 Hz
640x480 @100 Hz	1024x768 @70 Hz	1280x1024 @60 Hz
640x480 @120 Hz	1024x768 @72 Hz	1280x1024 @75 Hz
720x400 @70 Hz	1024x768 @75 Hz	1280x1024 @85 Hz
720x400 @84 Hz	1024x768 @85 Hz	1600x1200 @60 Hz

Mouse Modes

The KSX II operates in several mouse modes: ***Absolute Mouse Synchronization***, ***Intelligent Mouse Mode***, and ***Standard Mouse Mode***. For both the Standard and Intelligent mouse modes, mouse parameters must be set to specific values, which are described in this quick guide.

Mouse parameters do not have to be altered for Absolute Mouse Synchronization; D2CIM-VUSB is required for this mode. Mouse configurations will vary on different target operating systems; consult your OS documentation for additional detail.

Windows XP®/Windows 2003 Settings

1. Select Start > Control Panel > Mouse.
2. Open the Pointer Options tab. In the Motion group:
   - Set the mouse motion speed setting exactly to the middle speed.
   - Disable the Enhanced pointer precision option.
   - Click OK.
3. Disable transition effects:
   a. Select the Display option from Control Panel.
   b. Open the Appearance tab.
   c. Click the Effects button.
   d. Clear the Use the following transition effect for menus and tooltips option.
   e. Click OK.
   f. Close the Control Panel.

Windows Vista Settings

1. Configure the mouse:
   a. Select Start > Settings > Control Panel > Mouse.
   b. Open the Pointer Options tab. In the Motion group:
      - Set the mouse motion speed setting exactly to the middle speed.
      - Disable the Enhanced pointer precision option.
      - Click OK.
2. Disable animation and fade effects:
   a. Select the System option from Control Panel.
   b. Select Advanced system settings. The System Properties dialog box opens.
   c. Open the Advanced tab.

   d. Click the Settings button in the Performance group. The Performance Options dialog box opens.
   e. Under Custom options, clear the following checkboxes:
      - Animate controls and elements inside windows
      - Animate windows when minimizing and maximizing
      - Fade or slide menus into view
      - Fade or slide ToolTips into view
      - Fade out menu items after clicking
   f. Click OK.
   g. Close the Control Panel.

Windows 2000 Settings

1. Configure the mouse:
   a. Select Start > Control Panel > Mouse.
   b. Open the Motion tab.
      - Set the acceleration to None.
      - Set the mouse motion speed setting exactly to the middle speed.
      - Click OK.
2. Disable transition effects:
   a. Select the Display option from Control Panel.
   b. Open the Effects tab.
   c. Clear the Use the following transition effect for menus and tooltips option.
   d. Click OK.
   e. Close the Control Panel.

Linux® Settings

(*Standard Mouse Mode only*) Set the mouse acceleration to exactly 1 and set the threshold to exactly 1. Enter this command: `xset mouse 1 1`. This should be set for execution upon login.

Sun Solaris™ Settings

1. Set the mouse acceleration value to exactly 1 and the threshold to exactly 1.
2. Ensure that your video card is set to a supported resolution and that its output is VGA (not composite sync).

Apple® Macintosh Settings

Use the D2CIM-VUSB and Absolute Mouse Synchronization.

IBM® AIX Settings

Go to the Style Manager, click on Mouse Settings and set Mouse Acceleration to 1.0 and Threshold to 3.0.

II. Network Firewall Settings

To enable remote access to Dominion KSX II, your network and firewall must allow communication on TCP Port 5000. You can also configure Dominion KSX II to use a different TCP port; then allow communication on that port.

To access Dominion KSX II via web browser, your firewall must also allow access to TCP Port 443 (Standard HTTPS).

Access to TCP Port 80 (Standard HTTP) enables automatic redirection of "HTTP" requests to "HTTPS".

III. Connect Devices

A. AC Power

1. Attach the included AC power cord to the Dominion KSX II and plug into an AC power outlet.

2. For dual power failover protection, attach the second included AC power cord and plug it into a different power source than the first power cord.

Note: If you only attach one power cord, the power LED on the KSX II front panel will display red, because the system is set to automatically detect both power sources. Please refer to Step V for more information about turning off the automatic power detection for the power source not in use.

B. Network Ports

Dominion KSX II provides two Ethernet ports for failover purposes (not for load-balancing). By default, only LAN1 is active and automatic failover is disabled. When enabled, if the Dominion KSX II internal network interface or the network switch to which it is connected becomes unavailable, LAN2 will be enabled using the same IP address.

1. Connect a standard Ethernet cable (included) from the network port labeled LAN1 to an Ethernet switch, hub, or router.

2. To make use of the optional Dominion KSX II Ethernet failover capability:
   - Connect a standard Ethernet cable from the network port labeled LAN2 to an Ethernet switch, hub, or router.
   - Enable Automatic Failover on the Network Settings page.

C. Local Access Port (local PC)

For convenient access to target servers while at the rack, use the Dominion KSX II Local Access port. While the local port is required for installation and setup, it is optional for subsequent use. The local port also provides a graphical user interface (the KSX II Local Console) for administration and target server access.

Attach a multi-sync VGA monitor, mouse, and keyboard to the respective Local User ports, using either a PS/2 or USB keyboard and mouse.

D. Target Server Ports

Dominion KSX II uses standard UTP cabling (Cat5/5e/6) to connect to each KVM and serial target server.

KVM Targets:

1. Use the appropriate Computer Interface Module (CIM).
2. Attach the HD15 video connector of your CIM to the video port of your target server. Ensure that your target server's video has already been configured to a supported resolution and refresh rate.
3. (Cat5/5e/6) cable, connect the CIM to an available server port on the back of your Dominion KSX II unit.

Serial Targets:

1. Use the appropriate serial adapter and connect it to a serial console of a target server.
2. Connect one end of the UTP cable to the serial Adapter and other end to the Dominion KSX II unit.
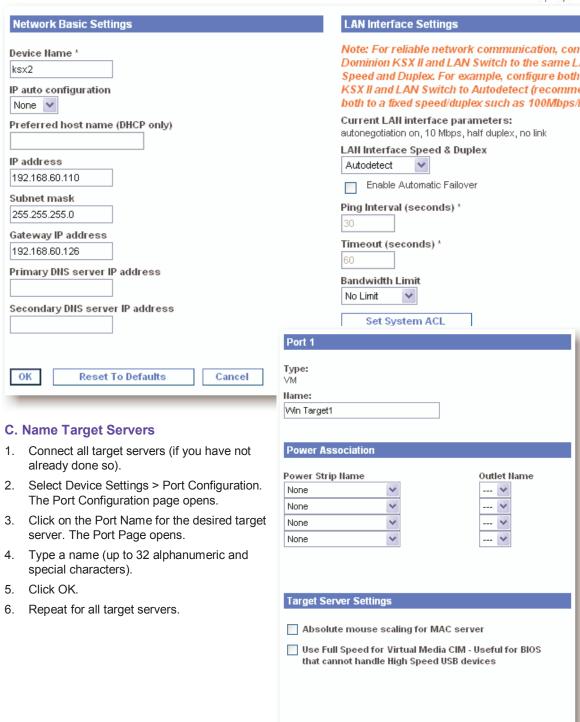
IV. KSX II Initial Configuration

A. Change the Default Password

The Dominion KSX II unit ships with a default password. The first time you start the Dominion KSX II you are required to change that password.

1. Power ON the Dominion KSX II using the power switch(es) at the back of the unit. Please wait for the Dominion KSX II unit to boot. (A beep signals completion of the boot.)

2. Once the unit has booted, the KSX II Local Console is visible on the monitor attached to the Dominion KSX II local port. Type the default username (admin) and password (raritan) and click Login. The Change Password screen is displayed.

3. Type your old password (raritan) in the Old Password field.

4. Type a new password in the New Password field; retype the new password in the Confirm New Password field. Passwords can be up to 64 characters long and can consist of English alphanumeric and printable special characters.

5. Click Apply.

6. You will receive confirmation that the password was successfully changed. Click OK. The Port Access page opens.

B. Assign an IP Address

1. Select Device Settings > Network Settings. The Network Basic Settings page opens.

2. Specify a meaningful Device Name for your Dominion KSX II unit; up to 16 alphanumeric and special characters, no spaces.

3. Select the IP configuration from the IP auto configuration drop-down list:
   - None (Static IP). This is the recommended option because the Dominion KSX II is an infrastructure device and its IP Address should not change. This option requires that you manually specify the network parameters.
   - DHCP. With this option, network parameters are assigned by the DHCP server.

4. If you select an IP configuration of None (static IP), type the TCP/IP parameters for your Dominion KSX II unit: IP address, Subnet mask, Gateway IP address, Primary DNS server IP address, and (optional) Secondary DNS server IP address.

Port Access

Click on the individual port name to see allowable operations.
1 of 1 Remote KVM channels currently in use.

▲ Port Number	Port Name	Port Type	Status	Availability
1	Win Target1	VM	up	connected
2	Dominion_KSX2_Port2	Not Available	down	idle
3	Switch From Win Target1 _KSX2_Port3	Not Available	down	idle
4	Connect Admin	VM	up	connected
5	Dominion_KSX2_Port5	Not Available	down	idle
6	Dominion_KSX2_Port6	Not Available	down	idle
7	Dominion_KSX2_Port7	Not Available	down	idle
	Dominion_KSX2_Port8	Not Available	down	idle
	Cisco 2501	Serial	up	idle
	SP-2	Serial	up	idle
	Serial Port 3	Serial	up	idle
	Serial Port 4	Serial	up	idle
	SP - 5	Serial	up	idle
	Serial Port 6	Serial	up	idle
	Serial Port 7	Serial	up	idle
	Serial Port 8	Serial	up	idle

Network Basic Settings

Device Name *
ksx2

IP auto configuration
None

Preferred host name (DHCP only)

IP address
192.168.60.110

Subnet mask
255.255.255.0

Gateway IP address
192.168.60.126

Primary DNS server IP address

Secondary DNS server IP address

[OK] [Reset To Defaults] [Cancel]

LAN Interface Settings

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

Current LAN interface parameters:
autonegotiation on, 10 Mbps, half duplex, no link

LAN Interface Speed & Duplex
Autodetect

☐ Enable Automatic Failover

Ping Interval (seconds) *
30

Timeout (seconds) *
60

Bandwidth Limit
No Limit

[Set System ACL]

C. Name Target Servers

1. Connect all target servers (if you have not already done so).

2. Select Device Settings > Port Configuration. The Port Configuration page opens.

3. Click on the Port Name for the desired target server. The Port Page opens.

4. Type a name (up to 32 alphanumeric and special characters).

5. Click OK.

6. Repeat for all target servers.

Port 1

Type:
VM

Name:
Win Target1

Power Association

Power Strip Name	Outlet Name
None	---
None	---
None	---
None	---

Target Server Settings

☐ Absolute mouse scaling for MAC server

☐ Use Full Speed for Virtual Media CIM - Useful for BIOS that cannot handle High Speed USB devices

[OK] [Cancel]

V. Create Users and Groups

User Groups are used with local and remote authentication (via RADIUS or LDAP). It is a good idea to define User Groups before creating individual users, because when you add a user, you must assign that user to an existing user group.

VI. Launching the KSX II Remote Console

1. Log on to any workstation with network connectivity to your Dominion KSX II unit and Java Runtime Environment v1.4.2_2 or higher installed (JRE is available at http://java.sun.com/). JRE version 1.5 is recommended for optimum performance; version 1.6 is also supported but has not been fully tested.

2. Launch a supported web browser such as Internet Explorer (IE) or Firefox.

3. Type the IP address that you assigned to your Dominion KSX II unit. The default IP address is https://192.168.0.192. The login page opens.

4. Type your username and password. The default username is admin and the default password is raritan.

5. Click Login.

VII. Access and Control Targets Remotely

The Dominion KSX II Port Access page provides a list of all Dominion KSX II ports, the connected target servers, their status, and availability.

Connecting to a Target

1. From the Port Access page, click the Port Name of the KVM target you want to access. The Port Action Menu is displayed.

2. Select Connect from the Port Action menu. A Virtual KVM Client window opens to the target server connected to that port.

Switching between Target Servers

Dominion KSX II provides the ability to switch from one target server to another. This feature is available in the Dominion KSX II Remote Console and MPC.

1. While already using a target server, access the Dominion KSX II Port Access page.

2. Click the Port Name of the target you want to access now. The Port Action menu is displayed.

3. Select the Switch From option from the Port Action Menu. The Virtual KVM Client window opens to the new target server selected.

Disconnecting a Target Server

1. From the Port Access page, click the Port Name of the target you are accessing. The Port Action menu is displayed.

2. Click Disconnect from the Port Action menu.

VIII. For Additional Information

Contact Raritan Technical Support by telephone (732) 764-8886, fax (732) 764-8887, or email tech@raritan.com, Monday through Friday 8:00 AM to 8:00 PM Eastern Time. For more information about the Dominion KSX II and the entire Raritan product line, refer to the Raritan User Manuals & Quick Setup Guides CD ROM or Raritan's Website http://www.raritan.com/support/productdocumentation.