



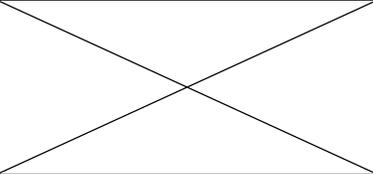
## Dominion® KX & KX II CIM Guide Version 3

This document provides a guide for Computer Interface Module (CIM) usage for Dominion KX I and KX II, with answers to frequently asked questions.

### ■ Dominion KX CIM Compatibility

Dominion KX II was designed to use multiple types of CIMs, including:

- **The Dominion KX I CIMs (DCIMs):** DCIM-PS2, DCIM-USBG2, DCIM-USB, DCIM-SUSB and DCIM-SUN can be used with KX I and KX II switches.
- **The new Dominion KX II CIMs (D2CIMs):** D2CIM-VUSB and D2CIM-PWR can only be used with KX II switches. They can **not** be used with KX I switches. These CIMs have a blue case.
- **Select Paragon and Paragon II CIMs:** the specific Paragon CIMs supported for Dominion KX II are listed below.

	Dominion KX I	Dominion KX II
Dominion KX I CIMs	<ul style="list-style-type: none"> <li>• DCIM-PS2</li> <li>• <b>DCIM-USBG2*</b></li> <li>• DCIM-USB (EOL)</li> <li>• DCIM-SUSB (EOL)</li> <li>• DCIM-SUN</li> </ul>	<ul style="list-style-type: none"> <li>• DCIM-PS2</li> <li>• <b>DCIM-USBG2*</b></li> <li>• DCIM-USB (EOL)</li> <li>• DCIM-SUSB (EOL)</li> <li>• DCIM-SUN</li> </ul>
Dominion KX II CIMs 		<ul style="list-style-type: none"> <li>• <b>D2CIM-VUSB</b></li> <li>• <b>D2CIM-PWR</b></li> </ul>
Paragon I CIMs	<ul style="list-style-type: none"> <li>• UKVMPD</li> <li>• UUSBPD</li> <li>• USKVMPD</li> <li>• USKVMC</li> <li>• UKVMC</li> </ul>	<ul style="list-style-type: none"> <li>• UKVMPD</li> <li>• UUSBPD</li> <li>• UKVMC</li> <li>• USKVMPD</li> </ul>
Paragon II CIMs	<ul style="list-style-type: none"> <li>• P2CIM-PS2</li> <li>• P2CIM-PS2DUAL</li> <li>• P2CIM-USB</li> <li>• P2CIM-USBG2</li> <li>• P2CIM-AUSB</li> <li>• P2CIM-SUSB</li> <li>• P2CIM-SUN</li> <li>• P2CIM-PWR</li> </ul>	<ul style="list-style-type: none"> <li>• P2CIM-AUSB</li> <li>• P2CIM-PS2</li> <li>• P2CIM-USB</li> <li>• P2CIM-SUSB</li> <li>• P2CIM-SUN</li> <li>• P2CIM-SER</li> <li>• P2CIM-SER-EU</li> </ul>

\* - The DCIM-USBG2 is now the recommended USB and Sun USB CIM for KX I and KX II.

## ■ Virtual Media and Absolute Mouse Synchronization Support

### D2CIM-VUSB and Dominion KX II models are required.

The D2CIM-VUSB is a high speed USB CIM that supports virtual media, absolute mouse synchronization and CIM firmware update. It is **required** for these new features.

The D2CIM-VUSB can **not** be used with Dominion KX I switches, so virtual media and absolute mouse synchronization are not be available for KX I switches.

### Not all servers and BIOS support Virtual Media (important!)

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.

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.

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.

### Not all servers support Absolute Mouse Synchronization:

Again, a USB server port is required, and the OS must support this technology. Microsoft Windows and Mac servers support this, but not UNIX, SUN and Linux.

### D2CIM-VUSB pricing

Packages of 32 and 64 D2CIM-VUSB CIMs provide a discount for buying in volume. The U.S. list price for a single D2CIM-VUSB is \$135, but is \$125 per CIM when purchased in a pack of 32, and \$120 per CIM for a pack of 64.

Customers who do not want virtual media and absolute mouse synchronization should use the new DCIM-USBG2, which is less expensive at \$99 U.S. list price.

## ■ Power CIMs for KX I and KX II

For **KX I switches**, use the existing **P2CIM-PWR** CIM for both the existing RPC power strips and the new Dominion PX power strips

For **KX II switches**, use the new **D2CIM-PWR** CIM for both the existing RPC power strips and the new Dominion PX power strips.

	Dominion KX I	Dominion KX II
RPC ( <i>Existing</i> )	P2CIM-PWR	D2CIM-PWR
Dominion PX ( <i>New</i> )		

## ■ The New DCIM-USBG2 Replaces the DCIM-USB and DCIM-SUSB

The new DCIM-USBG2, which replaces the DCIM-USB and DCIM-SUSB, is now available.

The DCIM-USBG2 is the second generation version of these CIMs, with enhanced reliability and performance. The DCIM-USBG2 supports both USB and SUN USB. A small switch on the unit determines USB or SUN USB.

The DCIM-USBG2 can be used for both KX I and KX II. It is a low cost CIM – US list price of \$99 - but lacks the virtual media and absolute mouse features of the D2CIM-VUSB.

End of Life (EOL) will be announced for the DCIM-USB and DCIM-SUSB in early October. The last time buy date for these CIMs is December 31, 2007.

## ■ Dominion KX II DCIM-USBG2 Usage

For Dominion KX II, the recommended usage depends on the features desired and the type of server and is as follows:

Customer Needs	CIM to Use
<ul style="list-style-type: none"> <li>Advanced features such as virtual media, absolute mouse synchronization and CIM firmware update</li> <li>Windows, Linux and Mac servers</li> </ul>	D2CIM-VUSB
<ul style="list-style-type: none"> <li>SUN USB Servers</li> <li>Unix Servers</li> </ul>	DCIM-USBG2
<ul style="list-style-type: none"> <li>Basic CIM features</li> <li>USB Servers</li> </ul>	DCIM-USBG2

## ■ Dominion KX I DCIM-USBG2 Usage

For Dominion KX I, the recommended usage depends on the firmware release as follows:

Domion KX I Release	CIM to Use
KX 1.3, KX 1.4, KX 1.4.x	DCIM-USBG2 for USB and SUN USB Servers
KX 1.0.x, KX 1.1 and KX 1.2	DCIM-USB DCIM-SUSB (Sun USB)

So most KX I customers should purchase the DCIM-USBG2, unless they are running a very old firmware release. Of course, customers can upgrade free of charge to new firmware and use the DCIM-USBG2 for increased reliability.

## ■ Connect to Serial Devices with P2CIM-SER and Dominion KX II

The P2CIM-SER (and P2CIM-SER-EU for European market) can be used to connect a serial device (networking device, headless server) to a Paragon or Dominion KX. The P2CIM-SER is now certified with the Dominion KX II.

The P2CIM-SER converts serial device input to a standard KVM signal for use with Paragon II and Dominion KX I and KX II. The US List Price is \$149. It is powered via USB from the serial device or the PWR-SER-4 four port power adapter.

## ■ Frequently Asked Questions:

1. **Can I use the KX I DCIMs with KX II?**  
→ Yes, you can.
2. **Can I use the KX II D2CIMs with KX I?**  
→ **No**, the KX I was not designed to use these new CIMs.
3. **The server only has PS2 ports, what should I do for KX II?**  
→ Use the DCIM-PS2. Remember the KX I DCIMs will work with KX II. Please note Virtual Media and Absolute Mouse Synchronization will not be supported in this case.
4. **My customer wants virtual media. What CIM do I need?**  
→ You need the D2CIM-VUSB. You also need to make sure that the target servers (USB port, OS and BIOS) support Virtual Media. See above.
5. **My customer wants absolute mouse synchronization, but not virtual media. How to handle this?**  
→ You can purchase the D2CIM-VUSB, but disable the virtual media permissions via the management user interface.
6. **My customer wants virtual media in KX I. Can I connect the D2CIM-VUSB to a KX I?**  
→ No, the D2CIM-VUSB only works with KX II. KX I switches can never support virtual media due to hardware differences.
7. **The D2CIM-VUSB is too expensive. Is there an alternative?**  
→ You can purchase the D2CIM-VUSB in the 32 and 64 piece packages for a reduced price. Or you can purchase the DCIM-USBG2, which doesn't have virtual media and absolute mouse synchronization for \$99 U.S. List Price.
8. **I want to connect a PX to a Dominion KX II. How do I do this?**  
→ You should use the D2CIM-PWR to connect a PX (or the existing RPC) to a KX II.
9. **I want to connect a PX to a Dominion KX I. How do I do this?**  
→ You should use the P2CIM-PWR to connect a PX (or the existing RPC) to a KX I.
10. **Why did you develop the DCIM-USBG2?**  
→ The DCIM-USBG2 has a more modern architecture based on the P2CIM-AUSB. It replaces the DCIM-USB and DCIM-SUSB (via switch on the CIM) and supports more server types. It can be used with both KX I and KX II.
11. **Does the DCIM-USBG2 support virtual media and absolute mouse synch?**  
→ No, the D2CIM-VUSB is required for these features.
12. **What about Mac target servers? What CIM should be used?**  
→ For Mac target servers, we recommend the D2CIM-VUSB and absolute mouse mode. The "Absolute mouse scaling for MAC server" option must be enabled for the specific port on the Port Configurations page.
13. **I have a few serial devices that I want to connect to a KX II. Can I?**  
Yes, the P2CIM-SER can be used to connect serial devices to a KX II.