

## **Dominion KX II Blade Server Configuration Guide – Release 2.1, v1.1**

Version: Dominion KX Release 2.1

Date: December 22, 2008

### **Applicable Dominion KX II models:**

DKX2-108, DKX2-116, DKX2-132

DKX2-216, DKX2-232

DKX2-416, DKX2-432, DKX2-464

### **Overview:**

This guide contains instructions on the configuration of IBM and Dell blade server chassis KVM and management modules to enable integration with the Dominion KX II Release 2.1 blade server feature. The guide provides supplemental information to the Dominion KX II Users Guide featuring screen shots and detailed instructions.

### **Contents:**

The guide contains instructions and screenshots for configuration of the following blade server types:

- IBM BladeCenter E or H with Advanced Management Module)
- Dell 1855/1955 with Analog KVM Module
- Dell M1000e with iKVM Module

### **Related Documents:**

Dominion KX II User Guide (Release 2.1)

Dominion KX II CIM Guide (Release 2.1)

Dominion KX II Release Notes (Release 2.1)

### **Caution:**

This guide has been prepared based on specific versions of the IBM and Dell blade servers, which may differ from the version you may have. Consult the manufacturer documentation for your particular version for more information.

## IBM Advanced Management Module Setup

This section describes the configuration required for the IBM BladeCenter Advanced Management Module to integrate with Raritan's Dominion KX II.

Under **MM Control**, access the **Login Profiles** to verify or create a user account for access from the Dominion KX II.

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### Management Module Login Configuration

Use the following links to jump down to different sections on this page.

[Login Profiles](#)

[Account Security Management](#)

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### Login Profiles

To configure a login profile, click a link in the "Login ID" column.

|    | Login ID                 | Role | <a href="#">Active Sessions</a> | Last Login        | Password Compliant | Days Until Password Expires | Dormant | State  | Action                  |
|----|--------------------------|------|---------------------------------|-------------------|--------------------|-----------------------------|---------|--------|-------------------------|
| 1  | <a href="#">USERID</a>   | C    | 0                               | Never             | Yes                | n/a                         |         | Active | <a href="#">Disable</a> |
| 2  | <a href="#">kperveil</a> | S    | 0                               | 09/24/07 15:12:57 | Yes                | n/a                         |         | Active |                         |
| 3  | <a href="#">andy</a>     | S    | 0                               | 09/18/07 09:28:43 | Yes                | n/a                         |         | Active |                         |
| 4  | <a href="#">toms</a>     | O    | 1                               | 09/25/07 09:14:11 | Yes                | n/a                         |         | Active | <a href="#">Disable</a> |
| 5  | <a href="#">jimrix</a>   | O    | 0                               | 04/10/07 22:22:40 | Yes                | n/a                         |         | Active | <a href="#">Disable</a> |
| 6  | <a href="#">dale</a>     | O    | 0                               | Never             | Yes                | n/a                         |         | Active | <a href="#">Disable</a> |
| 7  | <a href="#">stephen</a>  | O    | 0                               | Never             | Yes                | n/a                         |         | Active | <a href="#">Disable</a> |
| 8  | <a href="#">dallas</a>   | O    | 0                               | Never             | Yes                | n/a                         |         | Active | <a href="#">Disable</a> |
| 9  | <a href="#">hfuser</a>   | O    | 0                               | Never             | Yes                | n/a                         |         | Active | <a href="#">Disable</a> |
| 10 | <a href="#">angela</a>   | O    | 0                               | Never             | Yes                | n/a                         |         | Active | <a href="#">Disable</a> |
| 11 | <a href="#">phyllis</a>  | C    | 0                               | 04/26/07 01:24:31 | Yes                | n/a                         |         | Active | <a href="#">Disable</a> |
| 12 | ~ not used ~             |      |                                 |                   |                    |                             |         |        |                         |

Certain operations performed via the SSH connection require “Supervisor” (administrator level) privileges (e.g. setting idle timeout), so the account has to be created accordingly.

### Login Profile 12

Login ID

Password

Confirm password

### Role

- Supervisor (requires Scope selection)
- Operator (readonly, all scopes)
- Custom (requires Roles and Scopes)

#### Unassigned roles

- Chassis operator
- Chassis user account management
- Chassis log administration
- Chassis configuration
- Chassis administration
- Blade operator
- Blade configuration
- Blade administration
- Switch operator
- Switch configuration
- Switch administration

#### Assigned roles

- Blade remote presence

### Access Scope

#### Unassigned

- Chassis
- Blade 1
- Blade 2
- Blade 3
- Blade 5
- Blade 9
- Blade 10
- Blade 11
- Blade 12
- Blade 14
- Switch 1
- Switch 2
- Switch 3
- Switch 4

#### Assigned

- Blade 4
- Blade 6
- Blade 7
- Blade 8
- Blade 13

Under **Network Protocols**, ensure that **SSH Server** is Enabled.

The screenshot shows the 'BladeCenter H Advanced Management Module' interface. The left sidebar contains a navigation menu with categories like 'System Status', 'Power Management', 'Blade Tools', 'MM Control', and 'Service Tools'. The main content area is titled 'Management Module Network Protocols' and lists various protocols with links to their configuration pages. Below this list, the 'Simple Network Management Protocol (SNMP)' section is expanded, showing configuration options for the SNMPv1 agent, SNMPv3 agent, and SNMP traps, all of which are currently set to 'Enabled'. There is also a table for 'SNMPv1 Communities' with columns for 'Community Name', 'Access Type', and 'Host Name or IP Address'. The first row shows 'public' as the community name, 'Get' as the access type, and '1.0.0.0' as the host name.

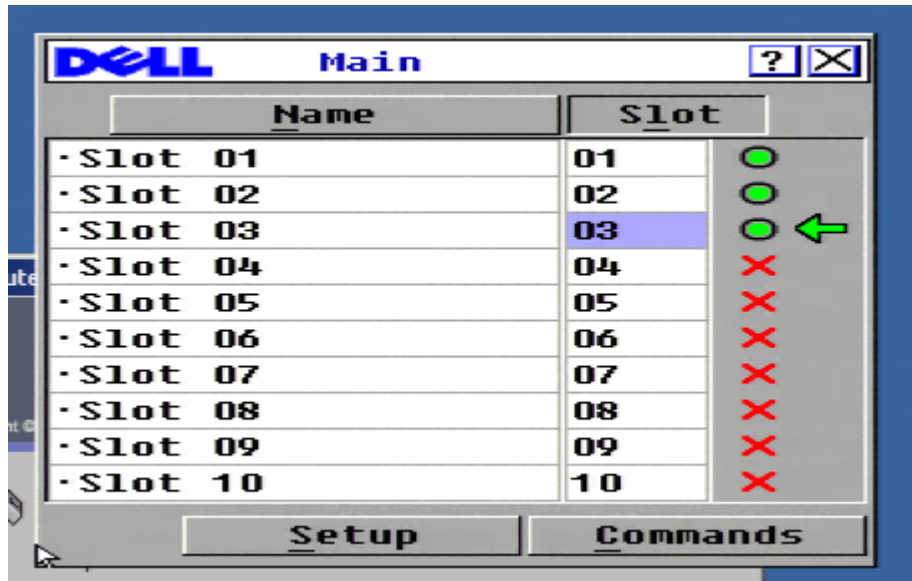
### Secure Shell (SSH) Server

SSH Server **Disabled**

Save

## Dell 1855/1955 Analog KVM Module

- From the Standard KVM Port invoke the **Main** menu using the current hot-key sequence. This may be set up to use any or all of the following:
  - Scroll Lock + Left Alt + Scroll Lock + Slot Number
  - Scroll Lock + Shift + Scroll Lock + Slot Number
  - PrintScr + Slot Number
  - Ctrl + Ctrl + Slot Number



Select the **Setup** button to see this screen:



Select **Menu** and then **Display/Sort Key** by **Slot**.

Set a **Screen Delay Time** - the time delay before the OSCAR menu is displayed after it is invoked. Recommend a value of 8 seconds.

If the hot-key sequence can be sent and executed within this timeframe, the OSCAR menu won't be seen when switching.

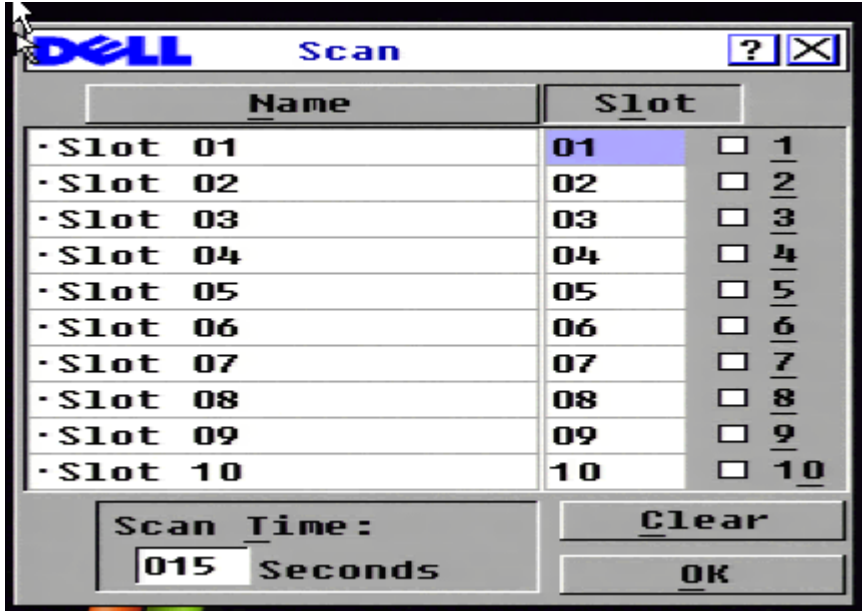


From the **Setup** menu, click on **Flag** to configure the Flag's behavior.

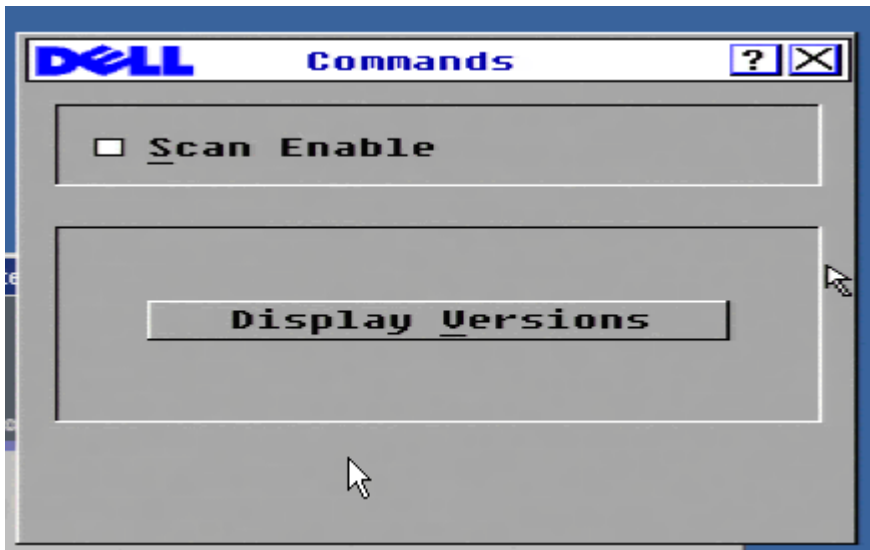
The flag serves as a visual confirmation of the slot you have connected to. Recommend to select **Displayed** and **Timed** so the flag is shown when first connected. This disappears after the **Screen Delay Time** specified earlier.



Return to the **Setup** menu, click on **Scan** to ensure that no slots are to be scanned.



From the **Main** screen, select **Commands** and make sure **Scan Enable** is NOT enabled.



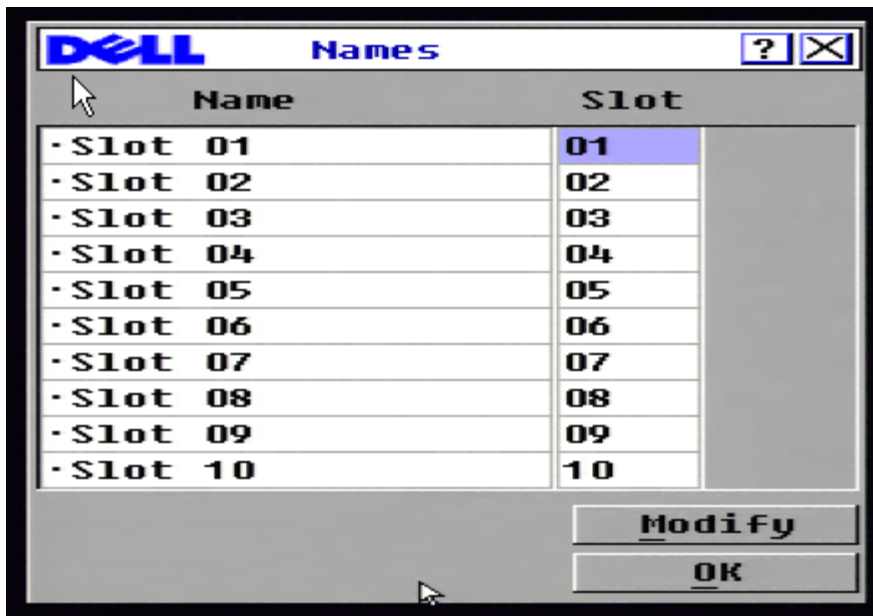
Return to the **Setup** screen and select **Security**. The **Enable Screen Saver** must be disabled and no password provided.



If you forget to disable the screensaver and password you'll encounter the following:



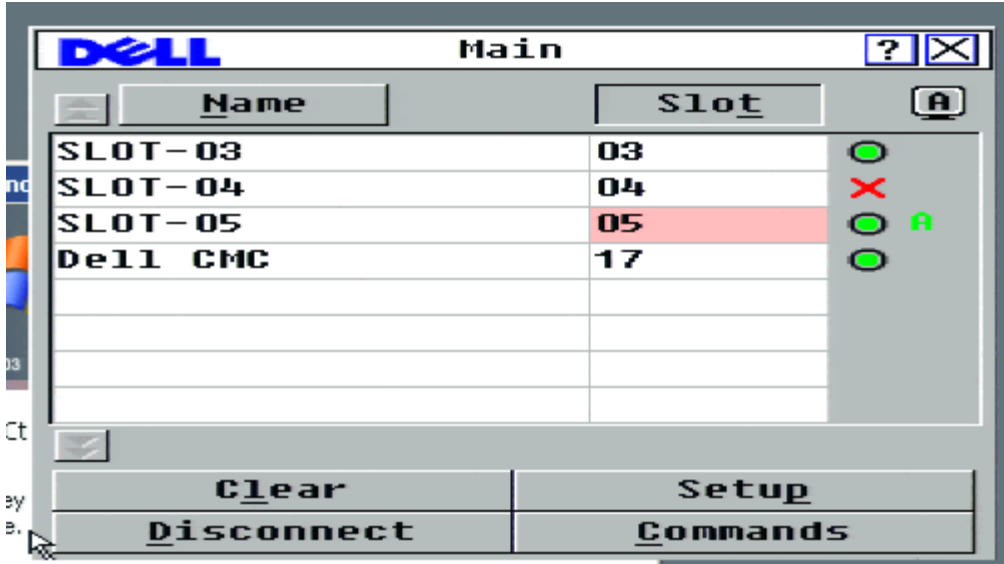
From the **Setup** screen, **Names** can be edited but these are not used with the KX II.





## Dell M1000e with iKVM Module

From the standard KVM Port, invoke the **Main** screen using the configured hot-key sequence. This may be set up to use : PrintScreen, Alt-Alt, Ctrl-Ctrl, and/or Shift-Shift.



Select **Setup** to see the following screen:



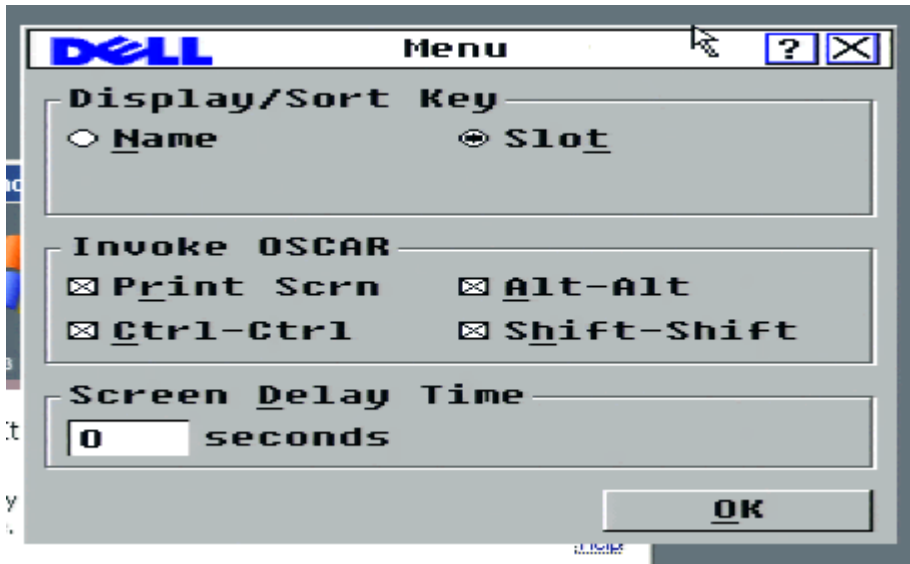
Select the **Menu** button.

Select **Display/Sort Key** by **Slot**

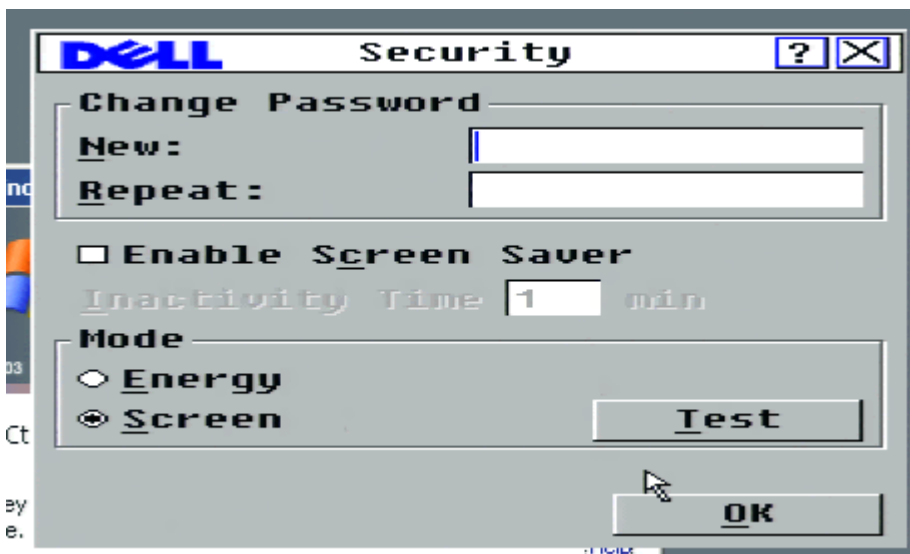
Designate 1 of 4 possible hot-key sequences to invoke OSCAR (the Port Configuration Page must match the hot-key selection made here).

Set a **Screen Delay Time** - the time delay before the OSCAR menu is displayed after it is invoked. Recommend a value of 8 seconds.

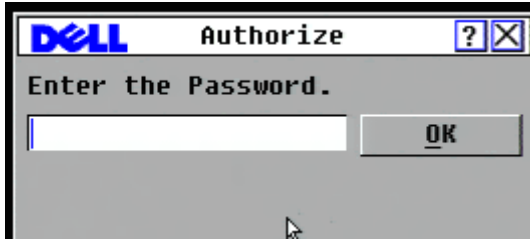
If the hot-key sequence can be sent and executed within this time, the OSCAR menu won't be seen when switching.



Return to the **Setup** screen and click **Security**. The **Enable Screen Saver** must be disabled and no password provided.



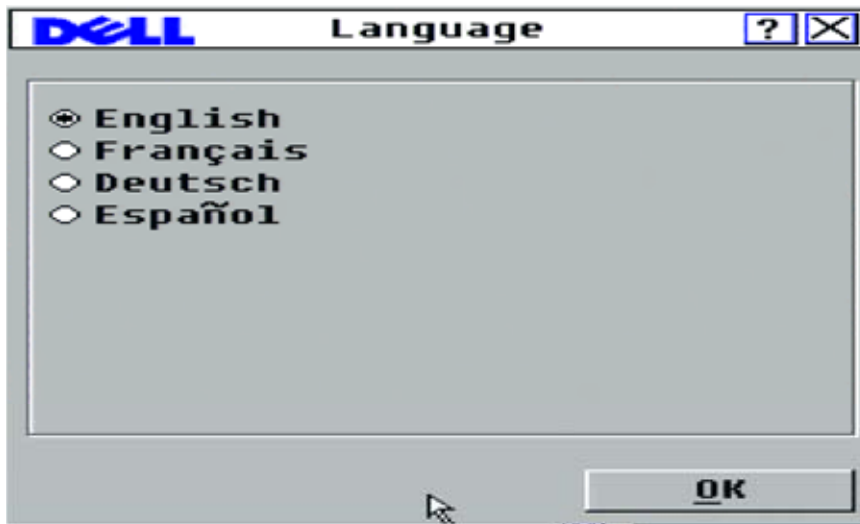
If you forget to disable the screensaver and password you'll encounter the following:



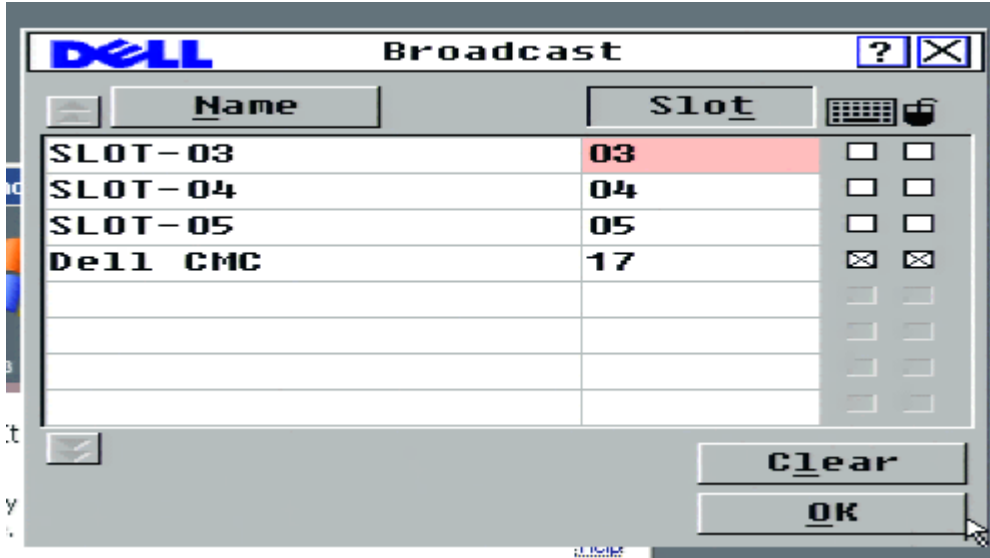
Return to the **Setup** screen and select **Flag**. The flag serves as a visual confirmation of the slot you have been connected to. Check **Displayed** and **Timed** so the flag is shown when first connected and disappears after the delay interval (the 8 seconds specified earlier).



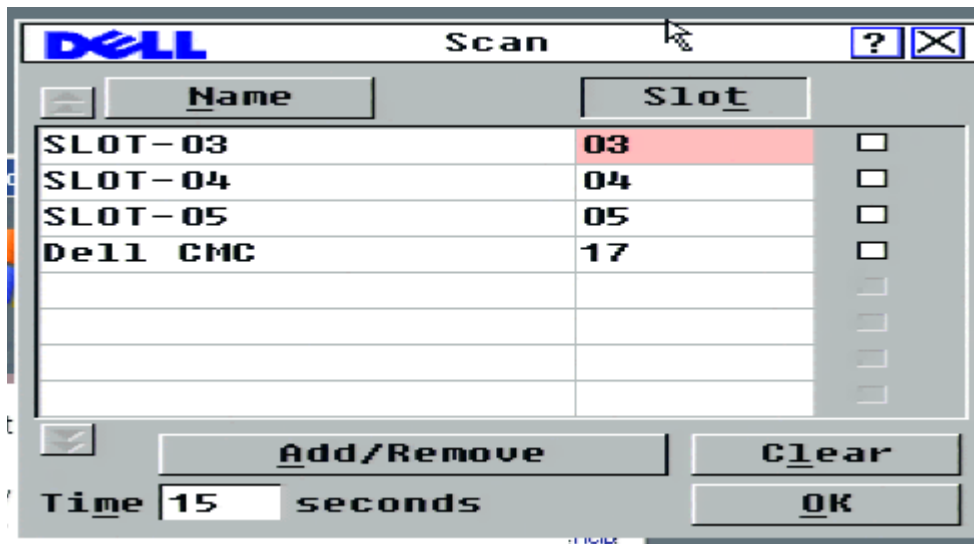
Return to the **Setup** screen and select **Language**, select **English**.



Return to the **Setup** screen and select **Broadcast**, ensure no slots are designated for broadcast.

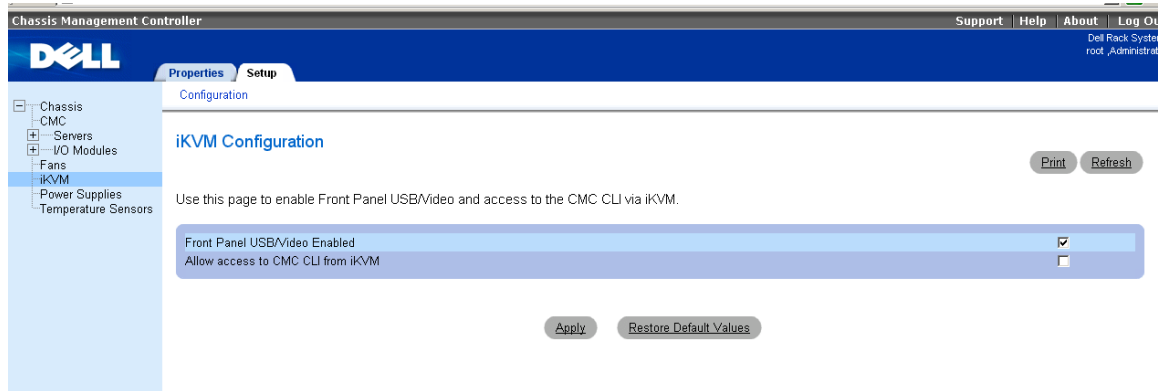


Return to the **Setup** screen and select **Scan**, ensure that no slots are designated for scan.



Setup for iKVM Module from the Chassis management Controller's (CMC) Administrative GUI, need to:

- Ensure that **Front Panel USB Video** is NOT enabled. The Front Panel has priority over the connections at the rear, so any connections at the front will prevent proper operation.
- Ensure that **Allow access to CMC CLI from iKVM** is NOT enabled



If the **Front Panel USB/Video** is enabled, you'll see a message indicating contention between the Front Panel and Rear Panel Access:



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