Dominion KX II Blade Server Configuration Guide – Release 2.1.10, v1.0

Version: Dominion KX Release 2.1.10
Date: July 9, 2009

Applicable Dominion KX II models:

DKX2-108, DKX2-116, DKX2-132

DKX2-216, DKX2-232

DKX2-416, DKX2-432, DKX2-464

DKX2-832, DKX2-864

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 blade server feature introduced in Release 2.1. 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 2.1.10)
Dominion KX II CIM Guide (Release 2.1.10)
Dominion KX II Release Notes (Release 2.1.10)

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.

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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.

For the IBM BladeCenter, the Advanced Management Module (AMM) is supported. The older Management Module has not been certified in this release. The KX II only supports auto-discovery for AMM[1] as the acting primary management module.

The following IBM BladeCenter minimum AMM firmware is recommended:

> Management Module Firmware
> Main application: BPET36K
> Released: 04-22-08
> Name: CNETMNUS.PKT
> Rev: 54

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

Management Module Login Configuration ❷

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

Login Profiles
Account Security Management

Login Profiles ❷

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

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

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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.

Here are some typical errors if Supervisor level control is not provided:

Communication Error	Error communicating with 'IBM-H-CHASSIS' connected to port '12' failed to 'failed to set Media Tray', <-7014:User does not have the authority to issue this command.>.
Communication Error	Error communicating with 'IBM-H-CHASSIS' connected to port '12' failed to 'connect to target', <-7014:User does not have the authority to issue this command.>.

For example, "new_user" has been assigned a "Supervisor" role.

BladeCenter, H Advanced Management Module

Login Profiles

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

	Login ID	Role	Active Sessions	Last Login	Password Compliant	Days Until Password Expires	Dormant	State	Action
1	USERID	S	2	06/30/09 09:04:37	Yes	n/a		Active	
2	admin	S	0	12/05/08 09:35:12	Yes	n/a		Active	
3	admin1	S	0	12/05/08 09:39:49	Yes	n/a		Active	
4	new_user	S	0	Never	Yes	n/a		Active	
5	tester	O	0	06/19/09 16:13:30	Yes	n/a		Active	Disable
6	~ not used ~								
7	~ not used ~								
8	~ not used ~								
9	~ not used ~								
10	~ not used ~								
11	~ not used ~								
12	~ not used ~								

Monitors
System Status
Event Log
LEDs
Power Management
Hardware VPD
Firmware VPD
Remote Chassis
Blade Tasks
Power/Restart
Remote Control
Firmware Update
Configuration
Serial Over LAN
Open Fabric Manager
I/O Module Tasks
Admin/Power/Restart
Configuration
Firmware Update
MM Control
General Settings
Login Profiles
Alerts

The login ID can be created by selecting a login id that is currently "not used", and can subsequently be edited by selecting it.

Login Profile 4

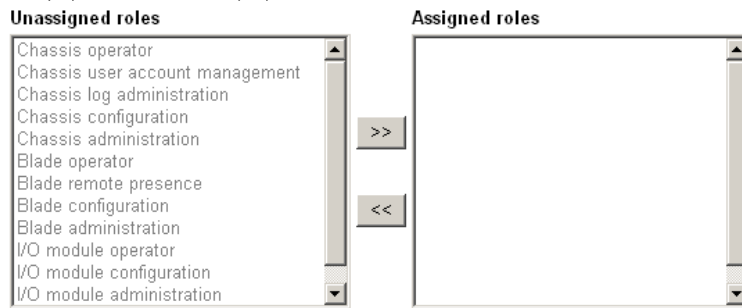| Login ID	new_user
New password	••••••••
Confirm password	••••••••
Maximum simultaneous active sessions	0

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Role

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

Unassigned roles		Assigned roles
Chassis operator		
Chassis user account management		
Chassis log administration		
Chassis configuration	>>	
Chassis administration		
Blade operator		
Blade remote presence		
Blade configuration	<<	
Blade administration		
I/O module operator		
I/O module configuration		
I/O module administration		
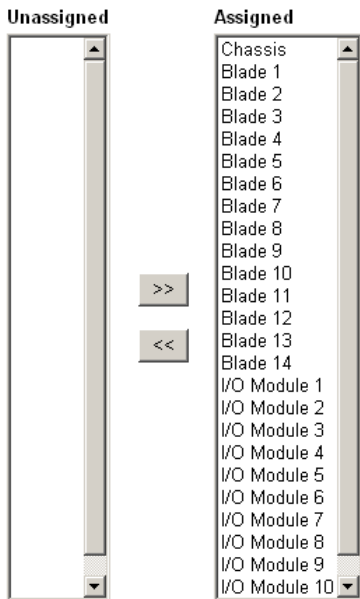
Access Scope

Unassigned		Assigned
		Chassis
		Blade 1
		Blade 2
		Blade 3
		Blade 4
		Blade 5
		Blade 6
		Blade 7
		Blade 8
		Blade 9
		Blade 10
	>>	Blade 11
		Blade 12
	<<	Blade 13
		Blade 14
		I/O Module 1
		I/O Module 2
		I/O Module 3
		I/O Module 4
		I/O Module 5
		I/O Module 6
		I/O Module 7
		I/O Module 8
		I/O Module 9
		I/O Module 10

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Under **Network Protocols**, ensure that **SSH Server** is Enabled. SSH will be used to access the command line interface to control blade chassis operations
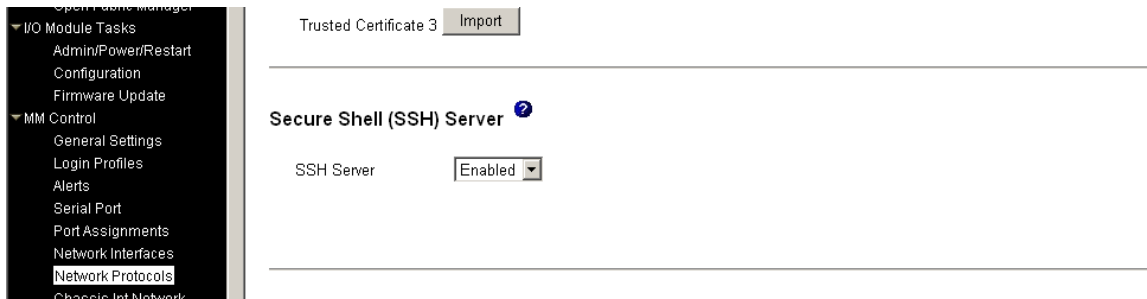

The Administrative Management Module firmware version can be verified by accessing **Service Tools** > **AMM Service Data**.
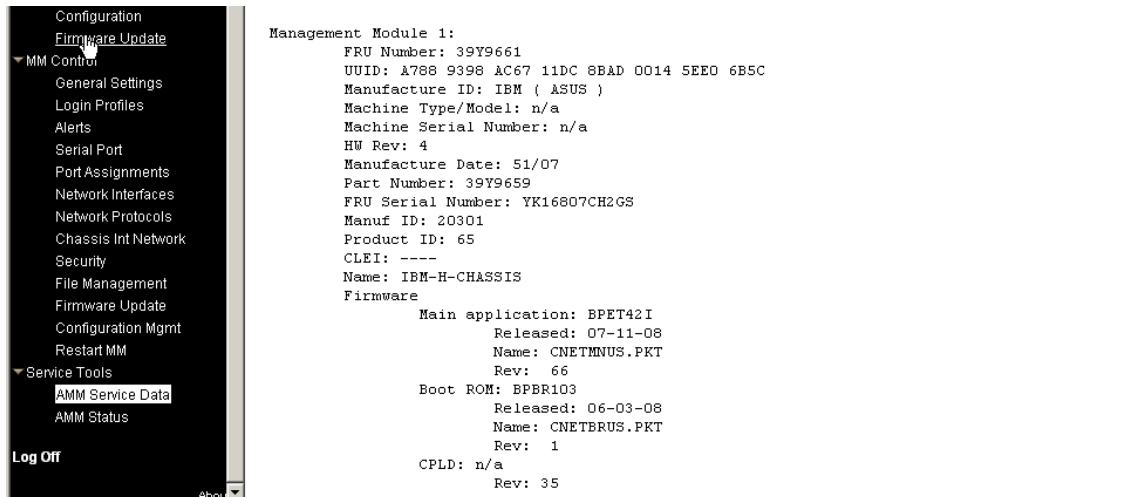
Dell 1855/1955 Analog KVM Module

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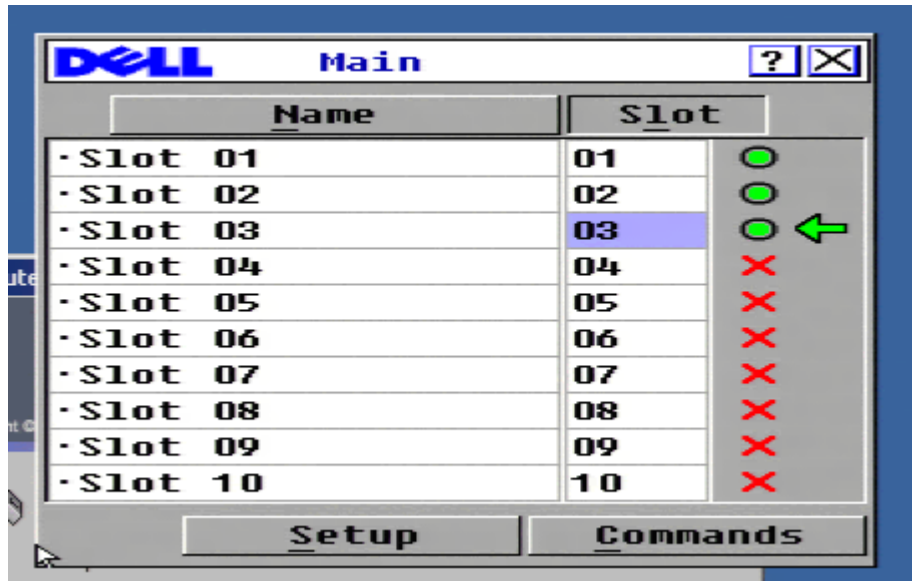
Select the **Setup** button to see this screen:

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.
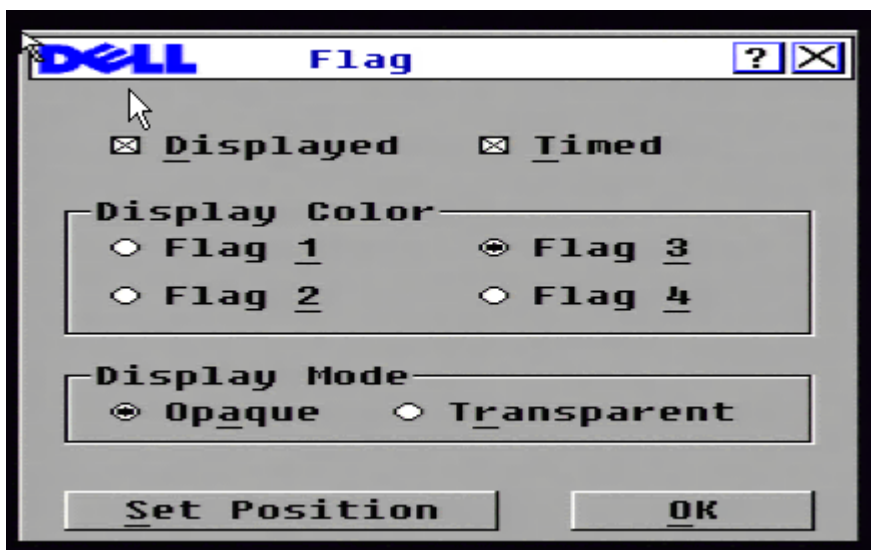
Return to the **Setup** menu, click on **Scan** to ensure that no slots are to be scanned.
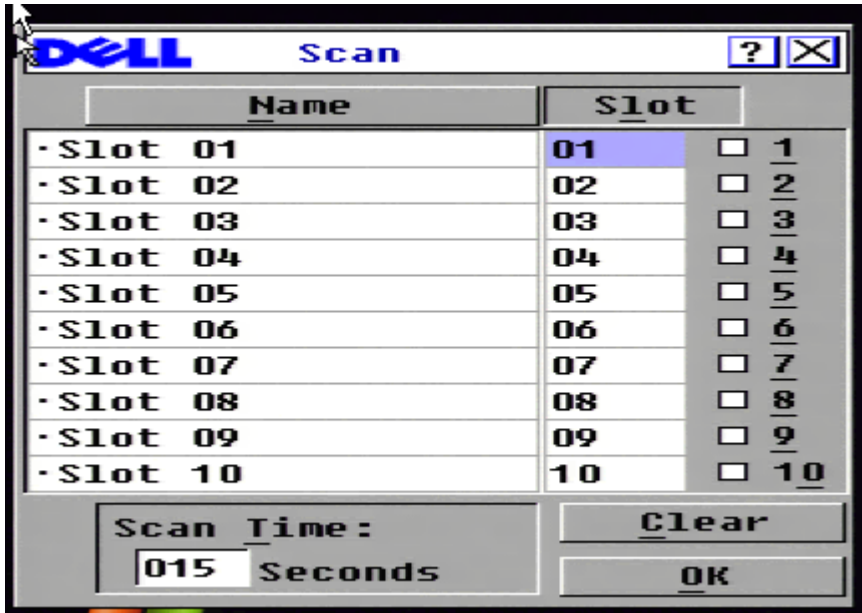
From the **Main** screen, select **Commands** and make sure **Scan Enable** is NOT enabled.
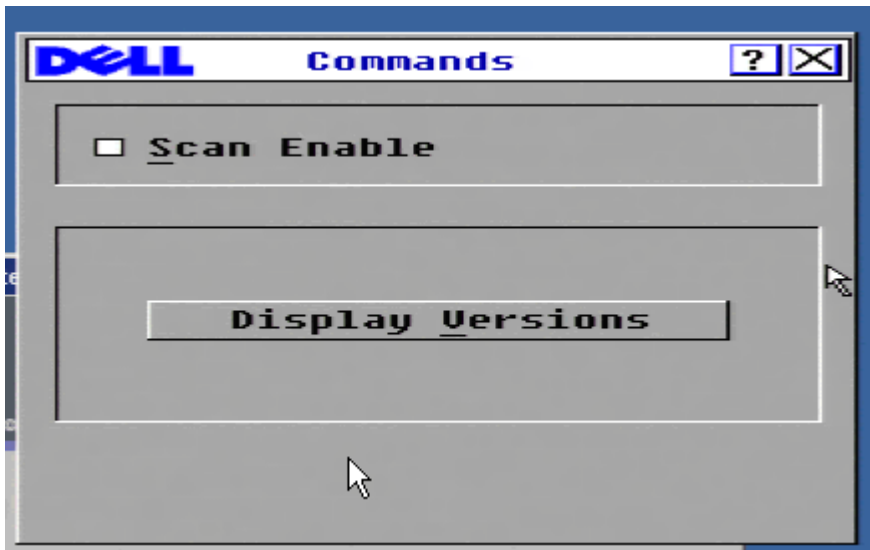
Return to the **Setup** screen and select **Security**. The **Enable Screen Saver** must be disabled and no password provided.

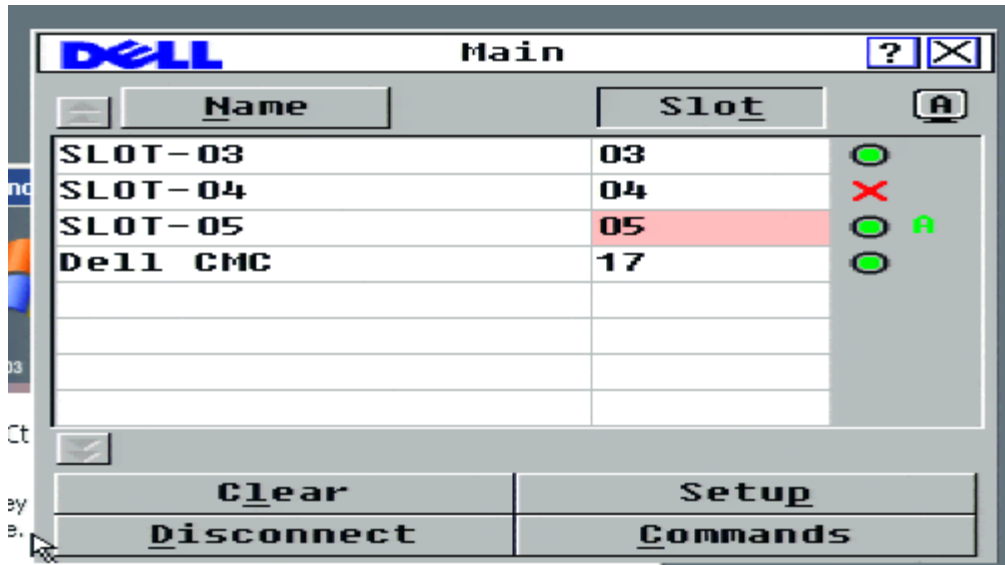If you forget to disable the screensaver and password you'll encounter the following:

From the **Setup** screen, **Names** can be edited but these are not used with the KX II.
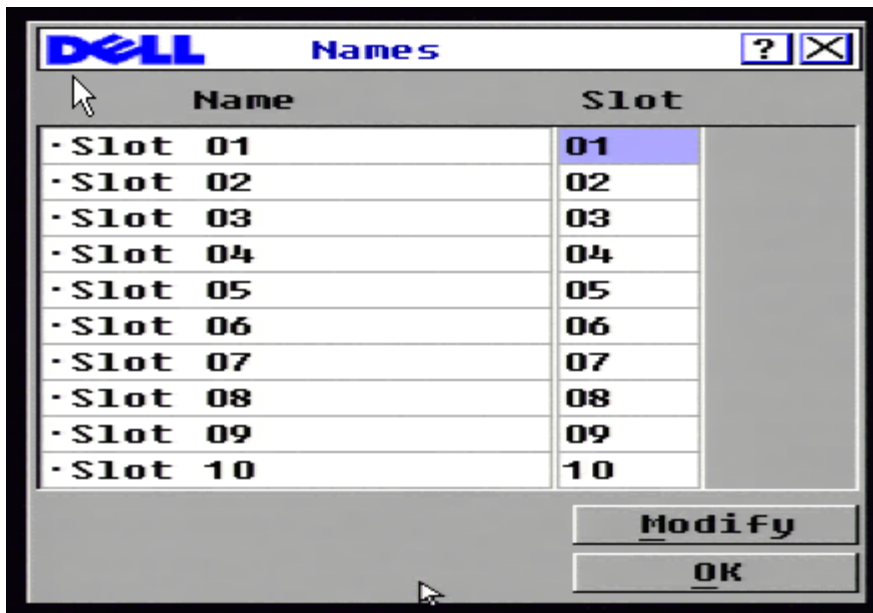
Dell M1000e with iKVM Module

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.
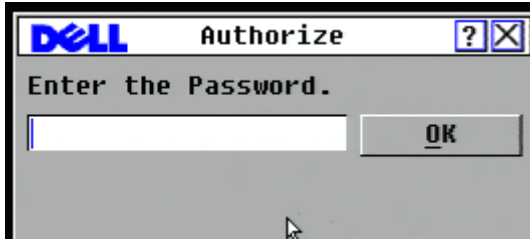
If the hot-key sequence can be sent and executed within this time, the OSCAR menu won't be seen when switching.
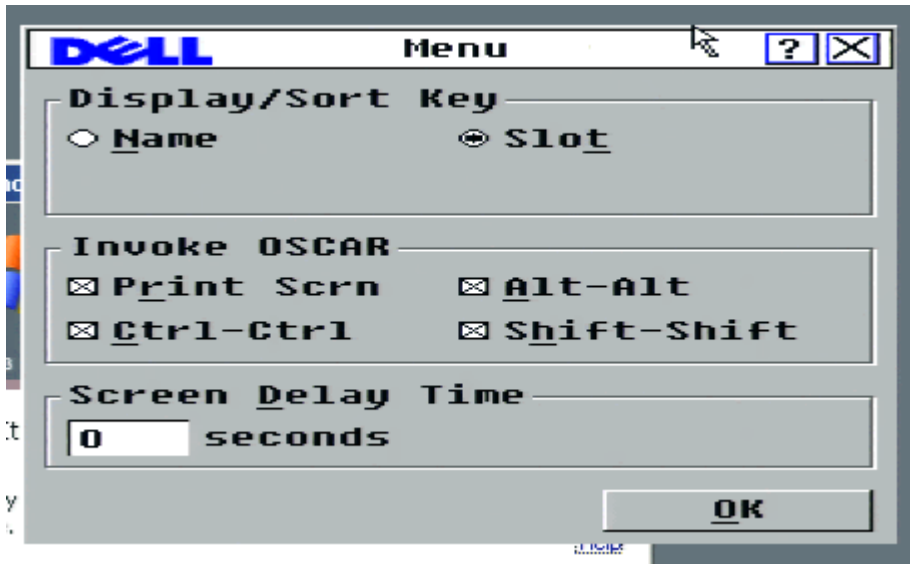
Return to the **Setup** screen and click **Security**. The **Enable Screen Saver** must be disabled and no password provided.


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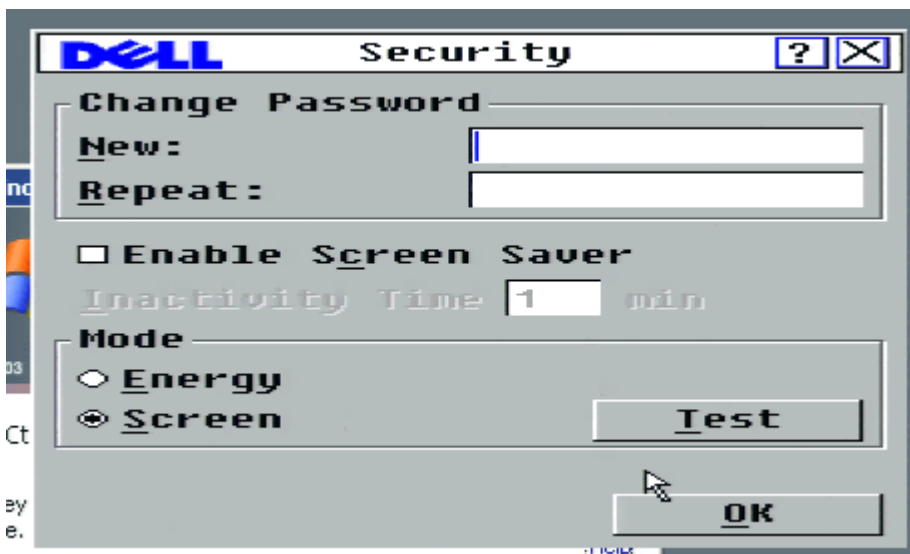
If you forget to disable the screensaver and password you'll encounter the following:

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).
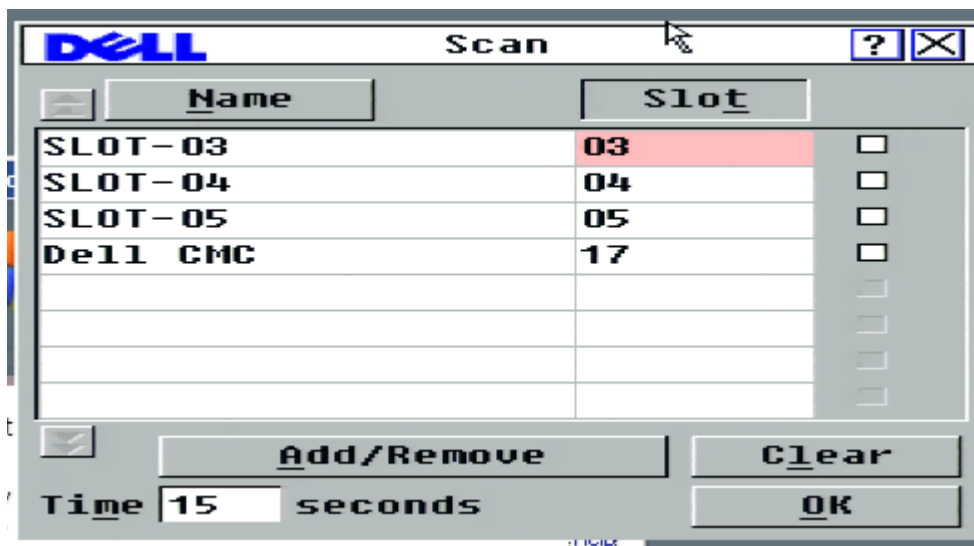

Return to the **Setup** screen and select **Language**, select **English**.

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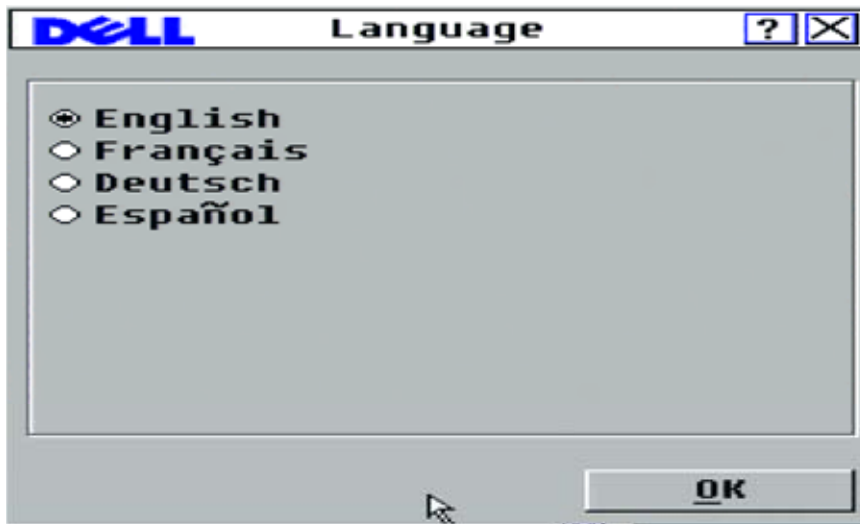
Return to the **Setup** screen and select **Broadcast**, ensure no slots are designated for broadcast.
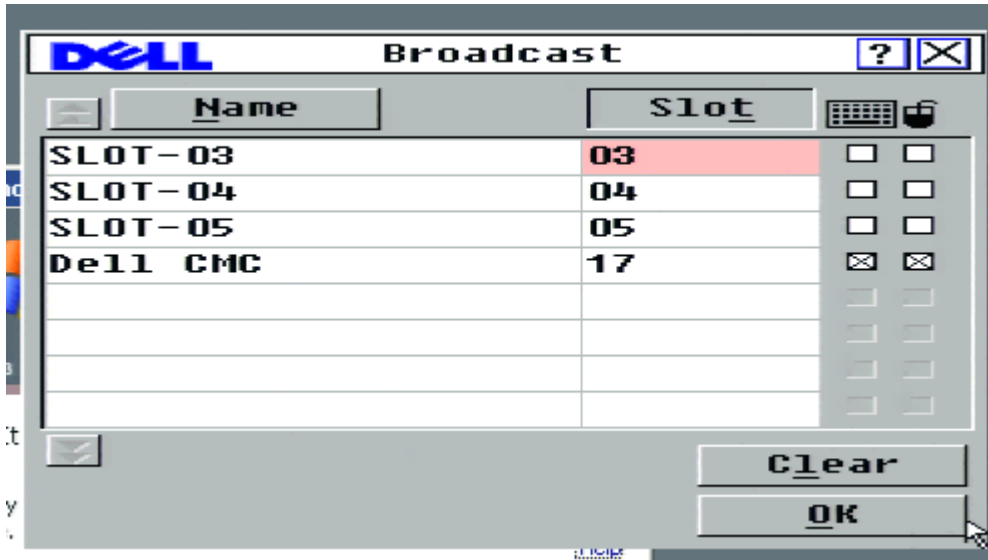
Return to the **Setup** screen and select **Scan**, ensure that no slots are designated for scan.

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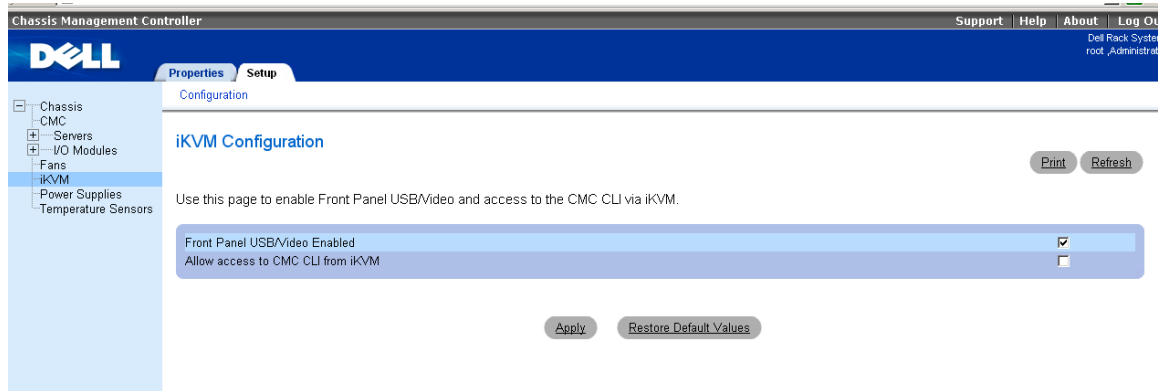
If the F**ront Panel USB/Video** is enabled, you'll see a message indicating contention between the Front Panel and Rear Panel Access:

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