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CRP and line cards configuration in Voyager for IPSO 3.8NET

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1

Central routing processor failover

Your network appliance is equipped with two central routing processors (CRPs) to give you failover protection. The standby CRP monitors the active CRP and will take control of your network appliance if it detects a failure of the active CRP. If your active CRP fails, your network services will be interrupted while the standby CRP takes control and your network appliance recovers.

For CRP failover to work, you must turn on CRP synchronization. The procedure allows the active CRP to transfer information, such as CRP configuration, general purpose line card (GPLC) images and configurations, and installed third-party applications to the standby CRP. For more information, see *Configuring central routing processor failover*.)

To choose which CRP you want as the active CRP, see *Choosing the active central routing processor*.

2

Configuring central routing processor failover

Purpose

This procedure describes how to configure central routing processor (CRP) failover.



Steps

1. Click **Config** from the **Home** page.
2. Click the **CRP Fail Over Configuration** link.
3. Click the **On** radio button in the **CRP Synchronization** field.
4. Click **Apply**.
5. Click **Save** to make your changes permanent.

3

Choosing the active central routing processor

Purpose

This procedure describes how to choose the active central routing processor (CRP).



Steps

1. Click **Config** from the **Home** page.
2. Click the **CRP Fail Over Configuration** link.
3. Click the **A** or **B** radio button associated with the CRP that you want as the active CRP in the **Preferred Active** field.
4. Click **Apply**.
5. Click **Save** to make your changes permanent.

Note

You must reboot both CRPs for this procedure to take effect.

4

General Purpose Line Cards

General Purpose Line Cards (GPLCs) give you the ability to build a highly scalable system. All of the interfaces of each line card are part of your network appliance's central routing processor (CRP) routing domain by default—exported to the CRP. You can also configure line card interfaces into multiple routing domains.

In the default mode, exported interfaces appear as pseudo interfaces on the CRP. (See *Exporting General Purpose Line Card Interfaces to the Central Routing Processor*.) You configure exported interfaces through the Configuration page by clicking the *Interfaces* link. It is possible to have both exported and local interfaces configured on a particular GPLC.

Interfaces that are not exported are part of each particular GPLC's routing domain—local interfaces. If you have local interfaces, you configure the GPLC with a separate IPSO image (see *Configuring IPSO Images On General Purpose Line Cards*) and you configure the local interfaces through each GPLC (see *Making Configuration Changes To General Purpose Line Cards*). When you have local interfaces, the CRP routing domain and GPLC routing domain pass information through virtual point-to-point (VPP) interfaces—virtual serial network interfaces. VPP connections use one local interface (vpp0) and one exported interface (vpp1).

Unless you need to set up multiple domains, for example, an IPv4 domain and an IPv6 domain, you should export line card interfaces to the CRP because you can manage the interfaces more easily through the main *Configuration* page.

5

Configuring IPSO DL images on general purpose line cards

Purpose

This procedure describes how to install an IPSO DL image on a general purpose line card (GPLC).

Before you start

IPSO DL images should be pre-installed in the CRP before proceeding to this task. For more information, see *Installing packages* in System functions configuration.



Steps

1. **Click Config on the Home page.**
2. **Click the *Image Selection for Line Cards* link.**
3. *If you want all the line cards to use the same image,*
Then
click the radio button next to the IPSO DL image in the *Default Image Selection for GPLC* table.
4. **(Optional) Click a slot link in the *Line Card Information* table.**
5. **Click the radio button in the Line Card Type field that describes the card.**
6. **Click the radio button next to the IPSO DL image you want to use when you activate the card.**

Note

You must boot, or reboot, the card after you perform this procedure for the card to install the new image.

- 7. Click Apply.**
- 8. To make your changes permanent, click Save.**

6

Making configuration changes to general purpose line cards

Purpose

This procedure describes how to make configuration changes to general purpose line cards (GPLC).

Note

You must have configured an IPSO DL image, and booted the GPLC, before you can make changes to the GPLC configuration. See *Configuring IPSO DL images on general purpose line cards* to install an IPSO DL image.



Steps

1. **Click Config on the Home page.**
2. **Click the *Line Cards* link.**
3. **Click the name of the line card in the *Line Card Information* table that you want to configure.**

Expected outcome

You will see a page titled *Line Card Configuration (slot number)* with links to the following Voyager pages: Change Hostname, Static Routes, Interfaces, DNS, Manage Installed Package, IPv6, Reboot, Shut Down Line Card and Show Configuration Summary.

4. **Click the link for which you would like to configure the line card, for example, Change Hostname.**
-

Note

All configuration changes will apply to the specific line card that you chose in Step 3.

7

Exporting general purpose line card interfaces to the central routing processor

Purpose

This procedure describes how to export general purpose line card interfaces (GPLCs) to the central routing processor (CRP).



Steps

1. Click **Config** on the Home page.
2. Click the **LineCard Configuration** link.
3. Click the name of the line card that you want to configure in the **Name** field.
4. Click the **Interfaces** link.
5. Click the **On** radio button in the **Exported** field of the interface you want to export to the CRP.
6. Click **Apply**.
7. To make your changes permanent, click **Save**.