

# Router Connect Application Quick Start

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## Running Junos Content Encore on the Application Services Modular Line Card

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Running Junos Content Encore (formerly Media Flow Controller) on the Application Services Modular Line Card requires the installation of the Router Connect application on routers running Junos OS Release 13.3 as described in this document.

If the router is running Junos OS Release 14.1 or later, you do not need the Router Connect application. Refer to [Running Junos Content Encore on the Application Services Modular Line Card](#) for information about how to run Junos Content Encore on the Application Services Modular Line Card for Junos OS Release 14.x.

Router Connect provides the following background services:

- Manages multiple Junos Content Encore images
- Loads specific Junos Content Encore images on each configured card

The following topics cover the installation and use of the Router Connect application:

- [Installing Router Connect on the MX Series Router on page 2](#)
- [Installing Junos Content Encore on the Modular Line Card on page 3](#)
- [Configuring Junos Content Encore on the Application Services Modular Line Card on page 4](#)
- [Router Connect Command-Line Interface \(CLI\) Reference on page 5](#)

### Installing Router Connect on the MX Series Router

Router Connect provides the interface between the MX Series router and the Application Services Modular Line Card on which Junos Content Encore runs. The application is installed and registered using the same commands and procedures used for other router-based applications.



**NOTE:** The graceful Routing Engine switchover (GRES) configuration must be deactivated or removed before installing the Router Connect application. The Router Connect application will not install successfully if GRES is configured.

Once GRES is restarted, the Router Connect application has full support. When the Junos Content Encore image is downloaded to the master Routing Engine, the same image is automatically propagated to the backup Routing Engine. All Router Connect image association settings will be automatically synchronized when the user issues the `commit` or `commit synchronize` commands.

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To install the Router Connect application:

1. Obtain the Router Connect image from Juniper Networks.
2. Configure the DHCP server process so that it is up and running with logging enabled:

```
set system services dhcp-local-server group group-name interface em0.0
set system services dhcp-local-server traceoptions file jdhcpd.log size 1m
```

3. Enable tracing options for the log file to trace all operations:

```
set services logging traceoptions file fsad.log size 1g
set services logging traceoptions flag all
```

4. Install the application package initially by configuring the provider name, license type, and deployment scope:

```
set system extensions providers juniper license-type juniper deployment-scope
commercial
```

You only need to perform this step once.

5. Enter the **request system software add** command to install the application on the router:

```
request system software add Router-Connect-Image
```

6. Verify that Router Connect has been installed using the **show version** command. The following line should appear at the end of the command output:

```
Media Flow Controller Management Application <image-name>
```

## Installing Junos Content Encore on the Modular Line Card

Each card supports only one Junos Content Encore image. Each card can run a different version of the Junos Content Encore software that is compatible with Router Connect. Currently, only Media Flow Controller Release 12.3.2 or later and Junos OS Release 13.3R2 or later support Router Connect.

In order to specify which image each card runs, each card is identified as a cluster, and an image is associated with that cluster. As a result, different cards can run different images, based on their card-cluster-image mapping.

To install Junos Content Encore on the router, and specify which image each card runs:

1. Obtain Junos Content Encore from Juniper Networks. You will receive either a URL from which the application can be installed, or an image that is copied to your system.
2. Use one of the following commands to install the application on the Modular Line Card:

- If you received a URL, enter the **request services media-flow-controller image add url** command to download and install the selected image.

```
request services media-flow-controller image add url url
```

- If you received an image file, install the image by entering the **request services media-flow-controller image add file *path*** command, where *path* is the path to the image on your local machine.

```
request services media-flow-controller image add file path
```

3. For each card, enter the **set services** command to create a cluster instance and associate it with a Modular Line Card.

```
set services mfc-cluster cluster-name member-node node-name blade type blade
fpc fpc_slot
set services mfc-cluster cluster-name-2 member-node node-name blade type blade
fpc fpc_slot
```

In the commands above, *cluster-name* and *node-name* are any names you choose for each, and *fpc-slot* is the slot where the card resides. Repeat the command for each cluster (card) you are using.

4. Use the **show services media-flow-controller downloaded-images** command to list all downloaded images available on the router. Use this list to either copy or enter the *mfc-image-name* in step 5.

5. Enter the **set services** command again to associate each cluster (card) with a Junos Content Encore image.

```
set services mfc-cluster cluster-name image-management image mfc-image-name
```

6. Enter the **commit** command to save your changes.

7. Reboot the card using the following commands, replacing *mic-slot* and *fpc-slot* with the respective MIC and FPC slots of each card:

```
request chassis mic mic-slot mic-slot fpc-slot fpc-slot offline
show chassis fpc pic-status fpc-slot
request chassis mic mic-slot mic-slot fpc-slot fpc-slot online
show chassis fpc pic-status fpc-slot
```

You can now log in to the Junos Content Encore by following the instructions in the section “Configuring Junos Content Encore on the Application Services Modular Line Card.”

## Configuring Junos Content Encore on the Application Services Modular Line Card

Junos Content Encore is configured using the procedures and commands explained in the *Media Flow Controller Administrator's Guide*. Currently, Junos Content Encore is configured using the command-line interface (CLI) only. The CLI is accessed from the router using the following command syntax:

- From RE0:

```
ssh routing-instance __juniper_private1__ admin@fpc<fpc-slot-number>.pic0
```

- From RE1:

```
ssh routing-instance __juniper_private1__ admin@fpc<fpc-slot-number>.pic1
```

In the example above, *fpc-slot-number* is the slot number for the card with the MFC image you want to configure.

For example, to access the card in FPC slot 4 from RE0, the command is:

```
ssh routing-instance __juniper_private1__ admin@fpc4.pic0
```

To access the card in FPC slot 4 from RE1, the command is:

```
ssh routing-instance __juniper_private1__ admin@fpc4.pic1
```

See the *Media Flow Controller Administrator's Guide* to configure Junos Content Encore for use.

## Router Connect Command-Line Interface (CLI) Reference

The following show and configuration commands are available for Junos Content Encore users:

- **request services media-flow-controller image add url *url***—Installs the image available at the *url* address onto the Routing Engine.
- **request services media-flow-controller image add file *file***—Installs the image specified by the *file* variable.
- **request services media-flow-controller image delete *image-name***—Deletes the specified image from the Routing Engine.
- **set services mfc-cluster *cluster-name* image-management image *mfc-image-name***—Specifies the image to download to the cards in cluster *cluster-name*.
- **set services mfc-cluster *cluster-name* member-node *node-name* type blade fpc *fpc-slot-number***—Specifies that the blades listed by *fpc-slot-number* are assigned to the cluster indicated by *cluster-name*.
- **show services media-flow-controller downloaded-images**—Returns a list of downloaded images.
- **show-services media-flow-controller image-association**—Returns a list of clusters and their associated images.

## Documentation and Release Notes

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For a list of related Media Flow documentation, see <http://www.juniper.net/techpubs/>.

If the information in the latest release notes differs from the information in the documentation, follow the *Media Flow Controller Release Notes*.

To obtain the most current version of all Juniper Networks® technical documentation, see the product documentation page on the Juniper Networks website at <http://www.juniper.net/techpubs/>.

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## Requesting Technical Support

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Technical product support is available through the Juniper Networks Technical Assistance Center (JTAC). If you are a customer with an active J-Care or JNASC support contract, or are covered under warranty, and need post-sales technical support, you can access our tools and resources online or open a case with JTAC.

- JTAC policies—For a complete understanding of our JTAC procedures and policies, review the *JTAC User Guide* located at <http://www.juniper.net/us/en/local/pdf/resource-guides/7100059-en.pdf> .
- Product warranties—For product warranty information, visit <http://www.juniper.net/support/warranty/> .
- JTAC hours of operation—The JTAC centers have resources available 24 hours a day, 7 days a week, 365 days a year.

## Self-Help Online Tools and Resources

For quick and easy problem resolution, Juniper Networks has designed an online self-service portal called the Customer Support Center (CSC) that provides you with the following features:

- Find CSC offerings: <http://www.juniper.net/customers/support/>
- Search for known bugs: <http://www2.juniper.net/kb/>
- Find product documentation: <http://www.juniper.net/techpubs/>
- Find solutions and answer questions using our Knowledge Base: <http://kb.juniper.net/>

- Download the latest versions of software and review release notes:  
<http://www.juniper.net/customers/csc/software/>
- Search technical bulletins for relevant hardware and software notifications:  
<https://www.juniper.net/alerts/>
- Join and participate in the Juniper Networks Community Forum:  
<http://www.juniper.net/company/communities/>
- Open a case online in the CSC Case Management tool: <http://www.juniper.net/cm/>

To verify service entitlement by product serial number, use our Serial Number Entitlement (SNE) Tool: <https://tools.juniper.net/SerialNumberEntitlementSearch/>

## Opening a Case with JTAC

You can open a case with JTAC on the Web or by telephone.

- Use the Case Management tool in the CSC at <http://www.juniper.net/cm/> .
- Call 1-888-314-JTAC (1-888-314-5822 toll-free in the USA, Canada, and Mexico).

For international or direct-dial options in countries without toll-free numbers, see <http://www.juniper.net/support/requesting-support.html> .

## Revision History

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21 January 2015—Junos Router Connect Release 13.3R2 Revision 2

23 June 2014—Junos Router Connect Release 13.3R2

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