Managing Software Images

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1. Managing Software Images

RBMS manages a list of software images that are currently installed on the switches in the network or eligible for being installed. The image lifecycle encompasses the following states:

- **NEW**, a new image that has been uploaded to RBMS but is not yet eligible for deployment. Typcially the integrity of a new image needs to be verified before it becomes eligible for deployment.

- **CANDIDATE**, a candidate image is eligible for deployment. It is a candidate to become the new release image if it passes all tests in the network.

- **RELEASE**, the release image gets installed by default.

- **SUPERSEDED**, a superseded image is a former release image which has been replaced by a newer release.

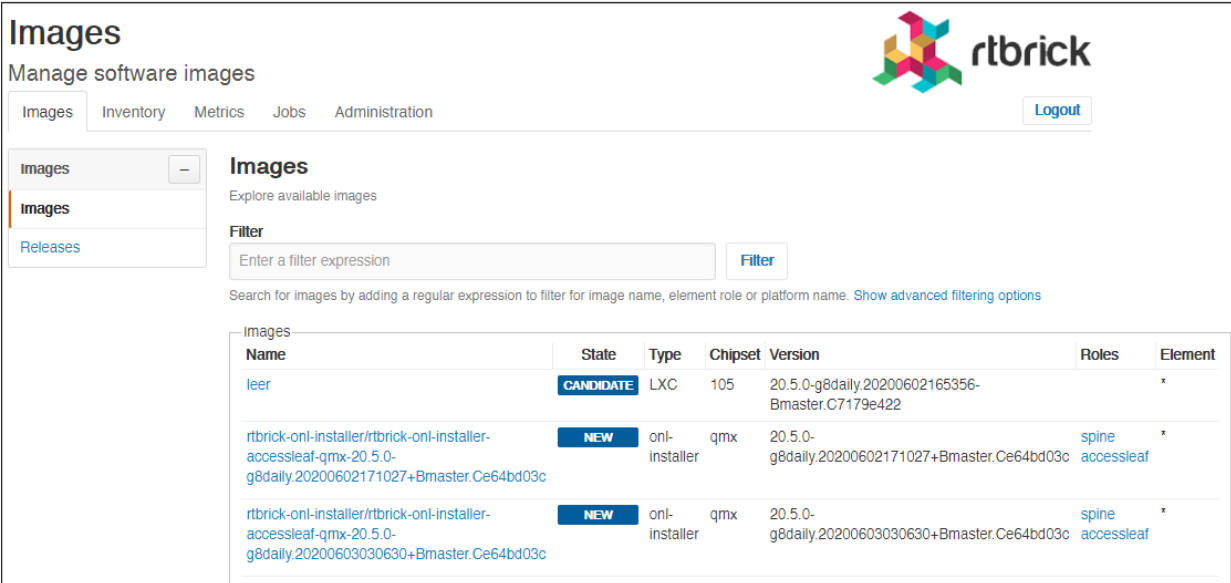- **REVOKED**, a revoked image must not be installed on switches in the network.

Superseded and revoked images are kept in the resource inventory for the sake of documentation and to track on how many switches superseded or revoked images are installed.

The rtb-image tool provides an option to register new image in RBMS. The new image can be installed on a switch via Zero-Touch Provisioning (ZTP).

1.1. Viewing all registered images

To view all registered images

- Click the **Images** tab. The **Images** page appears, showing the list of registered images.

The **Images** page displays the following fields:

Field	Description
Name	Name of the software image
State	Indicates the image state such as New, Candidate, Release, Suspended, Revoked. For more information, see the Image Lifecycle Management section.
Type	Type of the software image such as LXC or ONL
Chipset	Specifies the supported hardware name
Version	Version of the software image
Roles	The image is deployed on the specified element roles.
Element	Name of the registered element

1.1.1. Viewing image details

To view the details of an image

1. Click the **Images** tab. The list of registered images appear.

2. In the **Images** group box, click the name of the image that you want to view. The image details page appears.

This page displays the following fields:

Field	Description
Image ID	Image UUID (read-only)
Organization	The organization that issued the image
Image Type	The image type (read-only)
Image Name	The unique image name
Image Version	Image version (read-only)
Category	Optional image category
Description	Optional description of the image
Platform Chipset	The chipset this image is build for (read-only)
Element Roles	This image can be deployed on the selected element roles
Supported Platforms	The list of platforms on which the image can be installed

1.1.2. Updating image metadata

To update the metadata of an image

1. Click the **Images** tab. The list of registered images appear.

2. In the **Images** group box, click the name of the image whose metadata you want to update. The image details page appears.

3. On the left navigation pane, click **Metadata**.

4. Update image metadata such as image ID, type, name, and version.

5. Click **Save settings**.

1.2. Image Lifecycle Management

The image lifecycle defines five different image states. A new image is an image that has not yet been approved to be eligible for a deployment. The release image is deployed by default. A candidate image is intended to become the new default image, once the candidate has passed all necessary tests. The existing default image is superseded by the new default image. A revoked image must not be used any longer because it contains severe errors.

1. Click the **Images** tab. The list of registered images appear.

2. Click the name of the image that you want to view.

3. Click **State** in the left navigation pane.

4. From the following list of states, select the state that you want to apply.

- **New**: Newly registered image

- **Candidate**: Candidate for the next release image

- **Release**: The image to be installed by default

- **Superseded**: A former release image that has been superseded by a newer image version

- **Revoked**: The image must not be used anymore.

5. Click **Save state**.