Resetting Settings and Updating Firmware on Donyx Routers

This article applies to dnxOS version 1.1 and later.

Overview of Main Functions and Parameters

Resetting Settings

Settings are reset in the */system → config* section by clicking the **Default Config** button.



A window opens where you can configure the following parameters:

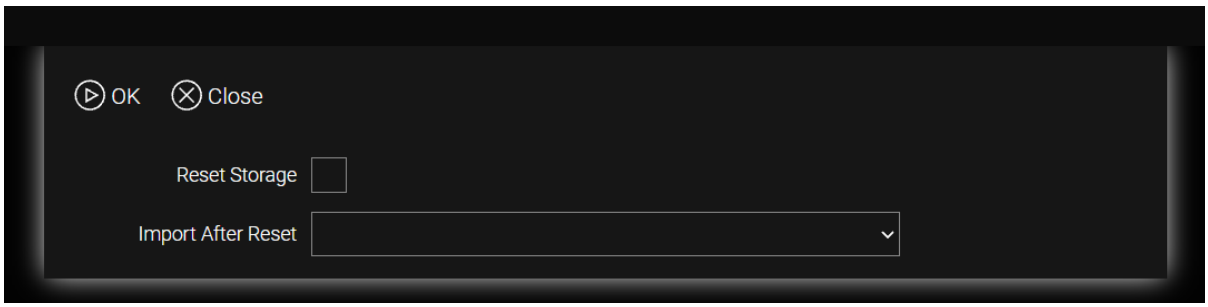


Table 1. Parameter Descriptions

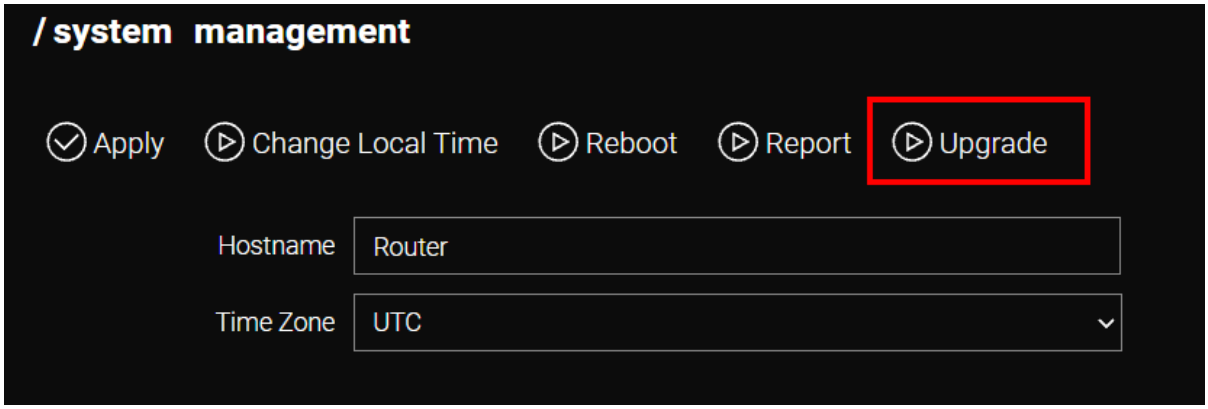
Name	Description
Reset Storage	When set to *true* (enabled), deletes imported files from */storage → file* and certificates from */storage → certificate*. When set to *false* (disabled), preserves imported files in */storage → file* and certificates in */storage → certificate*. Regardless of the **Reset Storage** value, all temporary files are deleted during the reset process
Import After Reset	The name of the configuration file that will be applied after the device is reset. To apply the **default.conf** file after the reset, leave the **Import After Reset** drop-down menu empty

A configuration file can be simultaneously imported into */storage → file* and not imported (temporary) in */storage → temp*. Priority is always given to the imported file, but if it is absent, the temporary one is applied.

default.conf is the device configuration in CLI syntax, applied as the default configuration after resetting settings. To be applied automatically, the file must be named **default.conf** and stored in */storage → file*.

Updating Firmware

Firmware is updated in the */system → management* section by clicking the **Upgrade** button.



A window opens where you can configure the following parameters:

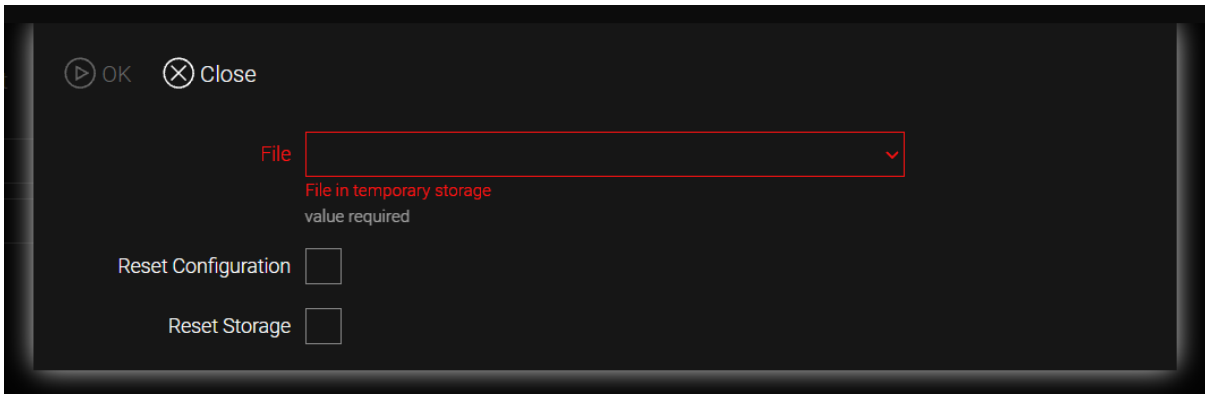


Table 2. Parameter Descriptions

Name	Description
File	The name of the firmware file to be applied after the update
Reset Configuration	When set to *true* (enabled), resets the device configuration during the update process. When set to *false* (disabled), preserves the device configuration during the update process
Reset Storage	When set to *true* (enabled), deletes imported files from */storage → file* and certificates from */storage → certificate*. When set to *false* (disabled), preserves imported files in */storage → file* and certificates in */storage → certificate*. Regardless of the **Reset Storage** value, all temporary files are deleted during the reset process

Firmware Bundle – a *.tar* archive that includes firmware, packages, and the **default.conf** configuration file.

When a Firmware Bundle is present, the **default.conf** file may exist in */storage → temp* or */storage → file*, as well as inside the Firmware Bundle. In this case, the **default.conf** file from the Firmware Bundle takes priority.
If the Firmware Bundle does not contain a **default.conf** file, the file from */storage → temp* or */storage → file* will be applied.

Scenarios for Resetting Settings

1. Resetting Settings While Preserving Storage

1. Go to the */system → config* section.
2. Click the **Default Config** button.
3. In the window that opens, click **OK**.

Result: The router resets the current settings and applies the configuration from the **default.conf** file. Files and certificates in the */storage* section are preserved.

CLI configuration:

```
/system config default
```

2. Resetting Settings While Clearing Storage

1. Go to the */system → config* section.
2. Click the **Default Config** button.
3. In the window that opens:
   - Enable the **Reset Storage** function.
   - Click **OK**.

Alternatively, hold the **Reset** button on the device body for more than 8 seconds (optimally 12-15 seconds).

Result: The router resets the current settings and applies the configuration from the **default.conf** file. Files and certificates in the */storage* section are deleted.

CLI configuration:

```
/system config default reset-storage=true
```

3. Applying a Configuration File When Resetting Settings

The router's configuration files are stored in */storage → file*. When configuring a site, each router must be assigned its own configuration file, and settings must be reset using that file. If a device fails, the same actions and the same configuration file must be used when configuring a new router.

1. Go to the */system → config* section.
2. Click the **Default Config** button.
3. In the window that opens:
   - In the **Import After Reset** drop-down menu, select the desired configuration file.
   - Leave the **Reset Storage** function at its default value or enable it.
   - Click **OK**.

If no other configuration file is specified, the **default.conf** file will be applied.

Result: The router resets the current settings and applies the configuration from the specified file. Files and certificates in the */storage* section are deleted if the **Reset Storage** function is enabled.

CLI configuration:

```
/system config default file=<configuration_file>
```

or

```
/system config default file=<configuration_file> reset-storage=true
```

Scenarios for Updating Firmware

1. Updating Firmware with Settings Reset and Storage Cleanup

The firmware file must first be uploaded to */storage → file*.

1. Go to the */system → management* section.
2. Click the **Upgrade** button.
3. In the window that opens:
   - In the **File** drop-down menu, select the firmware file.
   - Enable the **Reset Configuration** and **Reset Storage** functions.
   - Click **OK**.

Result: The router resets the current settings. The firmware is updated. Files and certificates in the */storage* section are deleted.

CLI configuration:

```
/system management upgrade file=<firmware_file> reset-config=true reset-storage=true
```

2. Updating Firmware with Settings Reset and Storage Preservation

The firmware file must first be uploaded to */storage → file*.

1. Go to the */system → management* section.
2. Click the **Upgrade** button.
3. In the window that opens:
   - In the **File** drop-down menu, select the firmware file.
   - Enable the **Reset Configuration** function.
   - Click **OK**.

Result: The router resets the current settings and applies the configuration from the **default.conf** file. The firmware is updated. Files and certificates in the */storage* section are preserved.

CLI configuration:

```
/system management upgrade file=<firmware_file> reset-config=true
```

3. Updating Firmware While Preserving Packages

The firmware file must first be uploaded to */storage → file*.

1. Go to the */system → management* section.
2. Click the **Upgrade** button.
3. In the window that opens:
   - In the **File** drop-down menu, select the firmware file.
   - Click **OK**.

Result: The router does not reset the current settings. The firmware is updated. Packages in the */storage → file* section are preserved.

CLI configuration:

```
/system management upgrade file=<firmware_file>
```

4. Updating Firmware with Storage Cleanup

The firmware file must first be uploaded to */storage → file*.

1. Go to the */system → management* section.
2. Click the **Upgrade** button.
3. In the window that opens:
   - In the **File** drop-down menu, select the firmware file.
   - Enable the **Reset Storage** function.
   - Click **OK**.

Result: The router does not reset the current settings. The firmware is updated. Files and certificates in the */storage* section are deleted.

CLI configuration:

```
/system management upgrade file=<firmware_file> reset-storage=true
```

5. Applying a Configuration File After Updating Firmware

The firmware file must first be uploaded to */storage → file*.

1. Go to the */system → management* section.
2. Click the **Upgrade** button.
3. In the window that opens:
   - In the **File** drop-down menu, select the firmware file.
   - Click **OK**.
4. Go to the */system → config* section.
5. Click the **Default** button.

The router's configuration files are stored in */storage → file*. When configuring a site, each router must be assigned its own configuration file, and settings must be reset using that file. If a device fails, the same actions and the same configuration file must be used when configuring a new router.

6. In the window that opens:
   - In the **Import After Reset** drop-down menu, select the desired configuration file.
   - Click **OK**.

If no other configuration file is specified, the **default.conf** file will be applied.

Result: The router resets the current settings and applies the configuration from the specified file. The firmware is updated.

CLI configuration:

```
/system management upgrade file=<firmware_file>
```

```
/system config default file=<configuration_file>
```

Scenarios for Installing a Firmware Bundle

1. Installing a Firmware Bundle Without Resetting Settings

The Firmware Bundle must first be uploaded to */storage → file*.

1. Go to the */system → management* section.
2. Click the **Upgrade** button.
3. In the window that opens:
   - In the **File** drop-down menu, select the Firmware Bundle.
   - Click **OK**.

Result: The router does not reset the current settings; the **default.conf** file from the Firmware Bundle is not applied. The firmware is updated, and files from the Firmware Bundle are added.

CLI configuration:

```
/system management upgrade file=<archive.tar>
```

2. Installing a Firmware Bundle with Settings Reset and Storage Preservation

The Firmware Bundle must first be uploaded to */storage → file*.

1. Go to the */system → management* section.
2. Click the **Upgrade** button.
3. In the window that opens:
   - In the **File** drop-down menu, select the Firmware Bundle.
   - Enable the **Reset Configuration** function.
   - Click **OK**.

Result: The router resets the current settings and applies what is specified in the **default.conf** file from the Firmware Bundle. The firmware is updated, and files from the Firmware Bundle are added.

CLI configuration:

```
/system management upgrade file=<archive.tar> reset-config=true
```

3. Installing a Firmware Bundle with Settings Reset and Storage Cleanup

The Firmware Bundle must first be uploaded to */storage → file*.

1. Go to the */system → management* section.
2. Click the **Upgrade** button.
3. In the window that opens:
   - In the **File** drop-down menu, select the Firmware Bundle.
   - Enable the **Reset Configuration** and **Reset Storage** functions.
   - Click **OK**.

Result: The router resets the current settings and applies what is specified in the **default.conf** file from the Firmware Bundle. If the default.conf file exists only in */storage → temp* or */storage → file*, it will not be applied because the storage is cleared during the reset. The firmware is updated, and files from the Firmware Bundle are added.

CLI configuration:

```
/system management upgrade file=<archive.tar> reset-config=true reset-storage=true
```

All modifications are permanently saved to the router configuration only after executing the */system config commit* command or clicking the **commit** button in the web interface.