



# CHAPTER 6

## Upgrading the Cisco ASR1000-RP3 Module

### Upgrading the Software

The In-Service Software Upgrades (ISSU) procedure for ASR1000-RP3 is same as that for ASR1000-RP2.

For detailed information on the software upgrade procedures, see [Software Upgrade Process](#) chapter of the [Cisco ASR 1000 Series Aggregation Services Routers Software Configuration Guide](#).

### Migrating from ASR1000-RP2 to ASR1000-RP3

This section describes the basic steps required for migrating from ASR1000-RP2 to ASR1000-RP3 without reloading the entire chassis in the field.

**Step 1** Upgrade the RP2 based system to Cisco IOS XE Denali 16.3.1 or later (Universal images).

```
Router# show platform
Chassis type: ASR1006-X
```

Slot	Type	State	Insert time (ago)
R0	ASR1000-RP2	ok, standby	00:11:48
R1	ASR1000-RP2	ok, active	00:11:48

**Step 2** Replace the RP2 which is in Standby mode with an RP3 card.

```
Router# show platform
Chassis type: ASR1006-X
```

Slot	Type	State	Insert time (ago)
R0	ASR1000-RP3	ok, standby	00:45:48
R1	ASR1000-RP2	ok, active	00:45:48

**Step 3** Switchover from an Active RP2 to Standby RP3.

```
Router# show platform
Chassis type: ASR1006-X
```

Slot	Type	State	Insert time (ago)
R0	ASR1000-RP3	ok, active	01:00:48
R1	ASR1000-RP2	ok, standby	01:00:48

**Step 4** Replace the RP2 which is in standby mode with an RP3.

```
Router# show platform
Chassis type: ASR1006-X
```

Slot	Type	State	Insert time (ago)
R0	ASR1000-RP3	ok, active	01:30:48
R1	ASR1000-RP3	ok, standby	01:30:48



**Note**

- ASR1000-RP3 to ASR1000-RP2 downgrade is not supported.
- Even though the ASR1000-RP2 and ASR1000-RP3 can co-exist in the chassis, it is only supported to enable customers to migrate the system to RP3 without requiring a reload.
  - Follow the above upgrade process during a maintenance window and replace both RP2s with RP3.
  - We do not recommend that the system runs with both RP2 and RP3 cards for a long duration.

## Upgrading Complex Programmable Logic Device (CPLD)

The CPLD version for Cisco ASR1000-RP3 is 16082219. For upgrading CPLD for ASR1000-RP3, please refer to the following document:

[http://www.cisco.com/c/en/us/td/docs/routers/asr1000/cpld/hw\\_fp\\_upgrade.html](http://www.cisco.com/c/en/us/td/docs/routers/asr1000/cpld/hw_fp_upgrade.html).