



Battery Backup Unit (BBU)

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Battery Backup Unit Overview

The integrated modular battery backup unit (BBU) is a smart charging and monitoring system. When the system AC power is turned off on the IR8100, the installed BBU supplies power to the router. The BBU also allows graceful shutdown of events on the router based on the configured voltage level thresholds. IR8100 supports up to three BBU units installed on the system.

The BBU Product ID (PID) for the IR8100 is CGR-BATT-4AH.

Configuring BBU Mode

The BBU automatically begins to supply power to the router when it detects that power is not being received from the AC power supply. You may want to disable and enable the BBU for the following reasons:

- To inhibit the BBU discharge during storage, shipping or transportation in order to preserve battery life.
- To replace the battery in an installed and operating router.



Note When the BBU is disabled by the **request platform hardware battery disable** command, the router will shut down if not powered by AC power. The BBU still can be charged when disabled.

Enabling BBU

To enable the BBU in the router:

Procedure

- Step 1** Enter the **request platform hardware battery enable** command:

Example:

```
Router# request platform hardware battery enable
```

Step 2 Confirm the action when prompted:

Example:

```
Proceed with enabling battery?[confirm]
Battery enabled.
```

```
Router#
Aug 16 22:26:01.473: %BBU-5-CLI_OK: R0/0: bbu: Command Battery enabled
```

Step 3 To check the BBU status, enter the **show platform hardware battery unit** command:

Example:

```
Router#show platform hardware battery unit
Battery pack state: Operational
```

Battery unit	0	1	2
Status	Idle	Idle	Full
Battery Mode	enabled	enabled	enabled
Charge level	90%	91%	96%
Capacity Remaining (mAh)	5235	5225	5545
Full Charge Capacity (mAh)	5739	5739	5739
Voltage (mV)	11736	11714	11869
Current (mA)	0	0	0
Temperature ('C)	30	31	31
Firmware version	1224	1224	1224

Disabling BBU

To disable the BBU in the router:

Procedure

Step 1 Enter the **request platform hardware battery disable** command:

Example:

```
Router# request platform hardware battery disable
```

Step 2 Confirm the action when prompted:

Example:

```
Router will shut down if not powered by AC Power. Proceed with disabling battery?[confirm]
Battery disabled.
```

```
Router#
Aug 16 22:26:16.647: %BBU-5-CLI_OK: R0/0: bbu: Command Battery disabled
```

Step 3 To check the BBU status, enter the **show platform hardware battery unit** command:

Example:

```
Router# show platform hardware battery unit
Battery pack state: Operational
```

Battery unit	0	1	2
Status	Idle	Idle	Full
Battery Mode	disabled	disabled	disabled
Charge level	91%	91%	96%
Capacity Remaining (mAh)	5236	5219	5534
Full Charge Capacity (mAh)	5739	5739	5739
Voltage (mV)	11732	11714	11869
Current (mA)	0	0	0
Temperature ('C)	30	31	31
Firmware version	1224	1224	1224
