



# Cisco IOS 15.8(3)M1-Release Notes for Cisco 2000 Series Connected Grid Routers and GRWIC-4G-LTE-EA and GRWIC-4G-LTE-LA Modules

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These release notes contain the latest information about the next-generation Cisco 4G LTE GRWIC Module for the CGR 2010 Series routers. These release notes document important information about the interface cards supported on the Cisco 2010 Connected Grid Router (CGR 2010, or router) and Cisco IOS Release 15.8(3)M1 release and greater.

**Note:** This new product **replaces** the previous Cisco 4G LTE GRWIC Module (part numbers: GRWIC-4G-LTE-A, GRWIC-4G-LTE-G, GRWIC-4G-LTE-V). These older modules **are not** supported in Cisco IOS 15.8 and beyond.

**Note:** Please use these Release Notes in conjunction with the [Cross-Platform Release Notes for Cisco IOS Release for Cisco IOS Release 15.8\(3\)M](#), which highlights Open and Resolved caveats in Cisco IOS 15.8(3)M1.

## Organization

This guide includes the following sections:

<a href="#">Conventions</a>	Conventions used in this document
<a href="#">About the Cisco Next Generation Connected Grid 4G GRWIC Module</a>	Overview of the module.
<a href="#">Limitations and Restrictions</a>	Known limitations in GRWIC 4G LTE-EA and GRWIC 4G LTE-LA Modules and supporting software.
<a href="#">Caveats</a>	Open Caveats for GRWIC 4G LTE-EA and GRWIC 4G LTE-LA Modules in Cisco IOS Release 15.8(3)M1.
<a href="#">Related Documentation</a>	Links to the documentation associated with this release

## Conventions

This document uses the following conventions.

Conventions	Indication
<b>bold font</b>	Commands and keywords and user-entered text appear in <b>bold font</b> .
<i>italic font</i>	Document titles, new or emphasized terms, and arguments for which you supply values are in <i>italic font</i> .
[ ]	Elements in square brackets are optional.
{x   y   z }	Required alternative keywords are grouped in braces and separated by vertical bars.
[ x   y   z ]	Optional alternative keywords are grouped in brackets and separated by vertical bars.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.
courier font	Terminal sessions and information the system displays appear in courier font.
< >	Nonprinting characters such as passwords are in angle brackets.
[ ]	Default responses to system prompts are in square brackets.
!, #	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.

**Note:** Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the manual.

**Caution:** Means *reader be careful*. In this situation, you might perform an action that could result in equipment damage or loss of data.

**Warning:** IMPORTANT SAFETY INSTRUCTIONS

Means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device.

**SAVE THESE INSTRUCTIONS**

**Regulatory:** Provided for additional information and to comply with regulatory and customer requirements.

## About the Cisco Next Generation Connected Grid 4G GRWIC Module

The Cisco Next-Generation Connected Grid 4G Multi-mode LTE GRWIC for CGR 2010 provides power utility providers wireless connectivity for their substations routers. It can be used as a back-up WAN link or as a primary path for remote locations.

Cisco Next-Generation 4G LTE GRWIC Module will support 4G LTE for EMEA, North America, APJC and Latin America regions.

## Supported Hardware and Software

This section describes the supported platforms and minimum software release required to use the interface cards with the CGR 2010 router.

**Table 1 Supported Hardware and Software**

Product ID	Connected Grid Interface Card	Connected Grid Platform	Minimum Software Release
GRWIC-4G-LTE-EA	<p>Cisco Next-Generation Connected Grid 2G/3G/4G Multi-mode LTE GRWIC (US, Canada, Europe)</p> <ul style="list-style-type: none"> <li>■ LTE FDD 2100 MHz (band 1), 1900 MHz (band 2, band 25), 1800 MHz (band 3), 1700 MHz (band 4), 850 MHz (band 5, band 26), 2600 (band 7), 700 MHz (band 12, band 13, band 17), 800 MHz (band 20), 1900 (band 25), 850 MHz (band 26), 700 MHz (band 29) and TDD LTE 2500 MHz (band 41) at Category 4 LTE speeds.</li> </ul> <p>Backwards compatibility:</p> <ul style="list-style-type: none"> <li>■ UMTS and HSPA+: 2100 MHz (band 1), 1900 MHz (band 2), 1800 MHz (band 3), 1700 MHz (band 4), 850 MHz (band 5), 900 MHz (band 8)</li> <li>■ GSM/GPRS/EDGE: 850 MHz, 900 MHz, 1800 MHz, and 1900 MHz</li> <li>■ UMTS/HSPA+ 850 MHz, 900 MHz, 1800 MHz, and 1900 MHz</li> </ul>	Cisco 2010 Connected Grid Router	15.8(3)M1

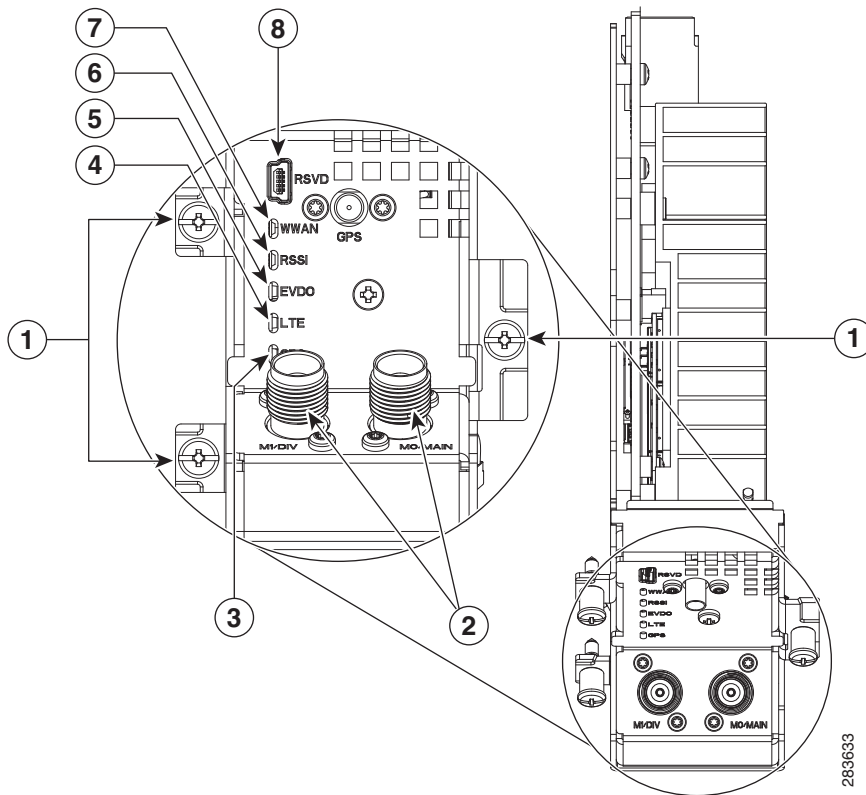
## About the Cisco Next Generation Connected Grid 4G GRWIC Module

**Table 1 Supported Hardware and Software**

Product ID	Connected Grid Interface Card	Connected Grid Platform	Minimum Software Release
GRWIC-4G-LTE-LA	<p>Cisco Next-Generation Connected Grid 2G/3G/4G Multi-mode LTE GRWIC (Australia)</p> <ul style="list-style-type: none"> <li>■ Cisco LTE FDD 2100 MHz (band 1), 1800 MHz (band 3), 850 MHz (band 5), 2600 MHz (band 7), 900 MHz (band 8), 850 MHz (band 18, band 19), 1500 MHz (band 21), 700 MHz (band 28) and TDD LTE 2600 MHz (band 38), 1900 MHz (band 39), 2300 MHz (band 40) and 2500 MHz (band 41) at Category 4 LTE speeds.</li> </ul> <p>Backward compatibility:</p> <p>UMTS and HSPA+: 2100 MHz (band 1), 850 MHz (band 5), 800 MHz (band 6, band 19), 900 MHz (band 8), 1700 MHz (band 9) and TD-SCDMA 1900 MHz (band 39)</p> <ul style="list-style-type: none"> <li>■ CDMA/EVDO: 800-900 MHz Cellular Band and 1800-1900 MHz PCS Band</li> </ul>	Cisco 2010 Connected Grid Router	15.8(3)M1

Limitations and Restrictions

**Figure 1 Components of 4G-LTE-EA and 4G-LTE-LA**



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**Table 2 Module Components**

1	Mounting screws for module, quantity of 3	5	LED-EVDO
2	Antenna connectors, quantity of 2: M1/DIV, M0/MAIN	6	LED-RSSI
3	LED-GPS	7	LED-WWAN
4	LED-LTE	8	RSVD port

## Limitations and Restrictions

No known limitations.

## Caveats

See [Cross-Platform Release Notes for Cisco IOS Release for Cisco IOS Release 15.8\(3\)M](#), which highlights Open and Resolved caveats in Cisco IOS 15.8(3)M1.

## Accessing the Bug Search Tool

You can use the Bug Search Tool to find information about caveats for this release, including a description of the problems and available workarounds. The Bug Search Tool lists both open and resolved caveats.

To access the Bug Search Tool, you need the following items:

## Related Documentation

- Internet connection
- Web browser
- Cisco.com user ID and password

To access the Bug Search Tool, use the following URL: <https://tools.cisco.com/bugsearch/search>

To search using a specific bug ID, use the following URL: <https://tools.cisco.com/bugsearch/bug/<BUGID>>

## Related Documentation

[Cisco Connected Grid Routers 2010 Hardware Installation Guide](#)

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