CGR 1000 Compute Module 1.6.0.6 – Release Notes for Cisco IOS CGR 1000 Compute Module

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These release notes contain the latest information about the Cisco Compute Module for the CGR 1000 Series routers.

Organization

This guide includes the following sections:

Conventions

This document uses the following conventions.

Conventions	Indication
bold font	Commands and keywords and user-entered text appear in **bold** font.
italic font	Document titles, new or emphasized terms, and arguments for which you supply values are in *italic* font.
[ ]	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.

Conventions	Indication
< >	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 Compute Module

The CGR Compute Module is a modular, hardened server that can be installed in CGR 1000 routers. The compute module functions as a fog computing node at the edge of the network.

The x86-based multi-core compute module hardware incorporates the industry standard COM Express (COMEe) module, referred to in this document as COMe sub-module. The sub-module fits inside the compute module enclosure, which occupies one slot of the host CGR. The CGR1120 and CGR1240 can each host one compute module.

Table 1 lists product options for the Compute Module.

Table 1 Compute Module Product SKUs

Product ID	Bulk Memory	DDR memory	CPU on COM-E
CGM-SRV-64	50 GB (Approximate)	4 GB	AMD GX-410VC, 4-Core 800 MHz
CGM-SRV-128	100 GB (Approximate)	4 GB	AMD GX-410VC, 4-Core 800 MHz

Software Requirements

To install and support the Cisco CGR 1000 Compute Module software on the CGR 1000 Series routers, ensure the software requirements in Table 2 are met.

Table 2 System Requirements

Software Requirements	Minimum Requirement	Software Bundle
Cisco IOS	Cisco IOS Release 15.7(3)M2	cgr1000-universalk9-bundle.SSA.157-3.M2
Cisco CGR 1000 Compute Module	CGR 1000 Compute Module 1.6.0.6	cgr1000-compute-1.6.0.6.SPA

Installation Notes

Please read this section and the Limitations and Restrictions section **before** installing the compute module.

Note: Cisco IOS Release 15.7(3)M2 must be installed in the CGR 1000 Series router to allow installation of a Compute Module. You can find those release notes at the following link:

http://www.cisco.com/c/en/us/td/docs/routers/access/800/829/15-7-3M2-Release-Notes.html

Limitations and Restrictions

- Only one compute module can be installed in a CGR 1240 or CGR 1120.
  - In a CGR 1240, you **must** install the compute module in slot 5 **and** Slot 6 **must** remain empty to dissipate heat.
  - In a CGR 1120, you can install the compute module in any slot.
- You cannot insert or remove a compute module from a CGR system that is up and running.
- Install only one Application Hosting Image per compute module.
  - Recommended Virtual Machines: Windows 7, Windows 10 or Linux (Ubuntu14.04LTS)
- When installing a 3G/4G module and/or WPAN module in the CGR 1240, reserve the following slots in that system:
  - Slot 3 with either the 3G or 4G module
  - Slot 4 for the WPAN module

Note: For complete installation details, refer to the Cisco CGR 1000 Compute Module Installation and Configuration Guide

Open Caveats

Table 3 Open Caveats in Release 1.6.0.6

Caveat Number	Description
CSCvi83422	USB unplug/plug and hot swap failed. This issue is seen when you unplug the USB drive and plug the USB drive back in again on the VM. The VM is not able to detect the USB drive when you remove and plug it back. Workaround: Deactivate, activate. Then, start the VM to recognize the USB drive.
CSCvj17920	VM app moved to stopped state. When the VM is left running for a while, it moves to a “stopped” state. Workaround: Start VM again.

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:

- 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, enter the following URL: https://tools.cisco.com/bugsearch/bug/*<BUGID>*

Related Documentation

Cisco CGR 1000 Compute Module Installation and Configuration Guide

Cisco 1240 Connected Grid Router Hardware Installation Guide

Cisco 1120 Connected Grid Router Hardware Installation Guide

Attaching Ferrite Clamp on CGR 1000 Series Alarm Cables for Noise Suppression

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