Release Notes for Cisco IoT Device Manager 5.1

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IoT Device Manager

Cisco IoT Device Manager (IoT-DM or Device Manager) is a Windows-based application that field technicians can use to manage the Cisco 1000 Series Connected Grid Routers (CGR 1000) running Cisco IOS, the Cisco 800 Series Industrial Integrated Services Routers (IR800), and the Cisco 500 Series WPAN Industrial Routers (IR500).

Cisco IoT-DM does not manage CGR 1000 routers running CG-OS.

Note This application was previously named Cisco Connected Grid Device Manager (CG-DM).

Note *You must uninstall any instance of CG-DM Release 4.x or earlier,* before you install IoT-DM 5.x on your laptop. The installer will not recognize the older installation given the different product name.

Cisco 1000 Series Connected Grid Routers (CGR 1000) are multi-service communications platforms designed for use in field area networks (FANs). The portfolio consists of two models–Cisco CGR 1240 and Cisco CGR 1120–both ruggedized to varying degrees for outdoor and indoor deployments. Both models are modular and support a wide range of communications interfaces such as 2G/3G/4G LTE, Ethernet, and WiFi. Device Manager connects to the CGR 1000 by using a secure Ethernet or WiFi link.

The Cisco 800 Series Industrial Integrated Services Routers are compact, ruggedized, Cisco IOS Software routers. They offer support for integrated 4G LTE wireless WAN (both 809 and 829 models) and wireless LAN capabilities (829 model only). Device Manager connects to the IR809 by using a secure Ethernet link, and to the IR829 by using a secure Ethernet or WiFi link. The IR809 must have IPv6 option enabled to connect with work order.

Cisco IR500 is a distribution automation (DA) gateway that provides secure IPv4/IPv6 connectivity over the IPv6-based Cisco Resilient Mesh (formerly known as CG-Mesh) to DA devices such as capacitor bank controllers, reclosers, or other SCADA devices. Device Manager connects to the IR500 directly over the laptop COM port.

For some activities on the CGR 1000, IR800, and IR500, IoT-DM connects to the Cisco IoT Field Network Director (Cisco IoT-FND).

Organization

This document 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.
< >	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.**

Danger **IMPORTANT SAFETY INSTRUCTIONSMeans 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.

New Features

The following new features are supported in IoT-DM, Release 5.1.

- Support for Windows 10.
- Supports for TLS v1.2 - IoTDM can connect to FnD running TLS v1.2.
- Support for IR809 and IR829 routers
- Support for Get TLVs and Post TLVs operations on the IR500.

For configuration details for the feature highlighted above, refer to the *Cisco IoT Device Manager Installation and Configuration User Guide, Release 5.x.*

System Requirements

Laptop

- Microsoft Windows 10 or Microsoft Windows 7 Enterprise.
- 2 GHz or faster processor recommended.
- 1 GB RAM minimum (for potential large log file processing).
- WiFi or Ethernet interface.
- 4 GB disk storage space.
- Windows login enabled.
- Utility-signed Certificate Authority (CA) and Client Certificate for router authentication (obtained from your network administrator).

- Customer-specific IT security hardening to keep the Device Manager laptop secure.

CGR 1000

- Cisco IOS Release 15.5(3)M or greater to support connectivity to the 4G LTE module.

Note The CGR 1000 must run Cisco IOS Release 15.5(1)T1 or greater to support connectivity to the IR500.

IR800

- Cisco IOS Release 15.6(3)M2 or greater.

IR500

- Firmware version 5.7.15 (cg-mesh-dagw-5.7.15-ab70a57-RELEASE-ir510.bin) or greater.
- Cisco IOS Release 15.6(3)M2 or greater.

IoT-FND

- Cisco IoT-FND Release 4.0 or greater.

Important Notes

Cisco IoT-DM does not support CGR 1000 routers running CG-OS.

Caveats

This section addresses the open caveats in this release and provides information on how to use the Bug Search Tool to find further details on those caveats. This section includes the following topics.

Accessing 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 Bug Search Tool, you need the following items:

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

To access the Bug Search Tool, enter the following URL:

https://tools.cisco.com/bugsearch/search

To access the Bug Search Tool to search on a specific caveat, enter the following URL:

https://tools.cisco.com/bugsearch/search/<BUGID>

Related Documentation

Table 1: Related Documentation

Device or Feature	Related Documents
Cisco 1000 Series Connected Grid Routers	Configuration and Installation Guides: http://www.cisco.com/go/cgr1000-docs
Cisco 800 Series Industrial Integrated Services Routers (IR800)	http://www.cisco.com/c/en/us/support/routers/800-series-industrial-routers/tsd-products-support-series-home.html
IR500	Cisco IR 500 Series WPAN Gateway and Range Extender Installation and Configuration Guide http://www.cisco.com/go/ir500
IoT-FND	Cisco IoT Field Network Director User Guide 4.0.x North Bound API User Guide for the Cisco IoT Field Network Director 3.0
WPAN and Cisco Resilient Mesh	Cisco Connected Grid WPAN Module for CGR 1000 Series Installation and Cisco Resilient Mesh Configuration Guide (Cisco IOS)
Raw Socket	Raw Socket Transport Software Configuration Guide for Cisco 1000 Series Connected Grid Routers (Cisco IOS) Configuring Raw Socket Protocol on the CGR 2010 Router

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see What's New in Cisco Product Documentation.

To receive new and revised Cisco technical content directly to your desktop, you can subscribe to the What's New in Cisco Product Documentation RSS feed. The RSS feeds are a free service.