



Cisco Prime Performance Manager 1.4 and 1.4.1 Release Notes

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This document provides an overview to Cisco Prime Performance Manager 1.4 and 1.4.1, and helps you understand the releases at a high level.



Note

You can access the most current Prime Performance Manager documentation, including these release notes, online at

http://www.cisco.com/en/US/products/ps11715/tsd_products_support_series_home.html

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Introduction

Cisco Prime Performance Manager is a simple-to-deploy and easy-to-use, unified management system that helps you monitor an all-Cisco or multi-vendor and multi-technology network. It allows you to view reports and perform administrative tasks, using a Web 2.0 user interface.



Americas Headquarters:

Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA

Prime Performance Manager is an integral part of the Cisco Prime product family. You can integrate it with Cisco Prime Central to provide a seamless user experience to view performance reports integrated with network and service topologies.

**Note**

Cisco Prime for IP Next Generation Networks (IP NGN) has been renamed as Cisco Prime for Evolved Programmable Networks (EPN). Please keep this in mind when viewing application documentation for the next Cisco Prime Carrier Management release.

Prime Performance Manager:

- Collects network performance information and generates statistics on delay, jitter, and packet loss in a packet network.
- Monitors performance statistics for IP/MPLS, Carrier Ethernet, mobile backhaul, Mobile EPC, CDMA, and data center. networks and technologies. Using a web-based user interface, you can view over 4400 reports in the following areas:
 - Application Traffic
 - Applications
 - Availability
 - Compute
 - IP Protocols
 - IP QoS
 - IP SLA
 - Mobile IOS Statistics
 - Mobile StarOS CDMA KPI
 - Mobile StarOS CDMA Statistics
 - Mobile StarOS KPI
 - Mobile StarOS Statistics
 - Prime Performance Manager System
 - My Resources
 - NetFlow
 - Network
 - Network Services
 - PPM System
 - Resources
 - Security
 - Storage
 - Transport Statistics
 - Video Broadcast
- Also supports data collection through NetFlow, JMX, IOS Data Collection Manager, XML, NETCONF, and collectd.

- Provides a horizontally scalable architecture with local, geographical, and N+1 high availability options.
- Supports thresholding, trending, 95th percentile reporting, email reports, and graphical report editing.
- Provides an extensive REST interface and other options for easy integration into existing systems and an advanced web-based reporting with many user-customizable features.
- Allows you to integrate with Cisco Prime Central. Prime Central is the presentation tier for the Cisco Prime suites, which include Prime Performance Manager, Cisco Prime Network, Cisco Prime Optical, and other Cisco Prime applications.
- Allows you to discover network devices by importing the Prime Network device inventory or by running device discovery from Prime Performance Manager.
- Allows you to install cross-launch scripts on Prime Network gateways, which enables Prime Performance Manager reports to be launched from the Prime Network GUI.
- Synchronizes device lists, credentials, and business tags from Prime Network.
- Provides a simple administrative interface that allows you to manage gateways and units, assign devices to units, administer autodiscovery, manage users, administer reports, and other tasks.
- Reduces time to troubleshoot and recover from problems that affect service.

Prime Performance Manager features and benefits include:

- Carrier class scale—Prime Performance Manager can manage 100,000 devices with up to 1.1 million interfaces and 50 GUI clients. Prime Performance Manager is designed for low startup and administrative costs with support for Cisco Unified Computing System (UCS), Linux, and VMware. The Prime Performance Manager embedded database eliminates third-party license and maintenance costs. Its distributed architecture provides reliability, deployment flexibility, and horizontal scaling to grow with the network.
- Prepackaged reports—Prime Performance Manager can generate more than 4400 prepackaged reports on a wide range of network services, technologies, and devices. These reports provide visibility into the network and service performance characteristics of core, aggregation, access, and data center network devices. Reports are automatically generated and do not require complex customization or configuration.
- Data collection and processing—Prime Performance Manager standards-based data collection can be applied to any device enabled for Simple Network Management Protocol (SNMP). Summarized reports can be generated in 1-minute, 5-minute, 15-minute, hourly, daily, or longer intervals and can be viewed using the Cisco Prime Performance Manager web interface. They can also be generated as a comma-separated value (CSV) data file for integration with a third-party OSS. Prime Performance Manager also supports CLI-based reports by Telnet, SSH, and WSMA.

For hypervisors, Prime Performance Manager supports:

- ESXi/vCenter by SOAP
- Hyper-V by WMI CIM
- Xen and KVM by libvirt
- Bulk statistics reports—For the Cisco ASR 5000 and Cisco ASR 5500, the ability to generate reports based on bulk statistics.
- Report aggregation and grouping—Prime Performance Manager provides the ability to create reports based on groups of network objects such as interfaces or devices within specified regions. The grouping feature works flexibly according to customized algorithms.

- Multi-technology support—Prime Performance Manager supports many network services, technologies, and devices. It facilitates proactive service assurance by allowing you to quickly detect network congestion and other issues.

For detailed information on Prime Performance Manager features, see the [Cisco Prime Performance Manager 1.4 User Guide](#).

For information on prerequisites, system requirements, and installation, see the [Cisco Prime Performance Manager 1.4 Quick Start Guide](#) and the Readme file provided with the Prime Performance Manager distribution.

Release 1.4.1 New Features and Enhancements

Prime Performance Manager 1.4.1 new features and enhancements provided in the release are listed in the following sections.

Alarms

Alarm enhancements include:

- The ability to disable alarms at the individual device level.
- Support for AlarmID as a parameter sent to TCA scripts.
- The ability to include report URLs in TCA emails.

Devices

Release 1.4.1 supported devices and device enhancements include:

- Symmetricon TP2000 and TP2700
- Cisco Carrier Packet Transport (CPT) 50: Release 9.5.3
- Cisco Adaptive Security Appliance (ASA) 5500-X Series Next-Generation Firewalls
- Cisco Content Delivery Engine Series
- Cisco 7600 Series Routers
 - IOS XE 3.4 - RLS34 - 15.1(3)S6
 - IOS XE 3.9 - RLS15/RLS39 - 15.3(2)S
- Cisco CRS-1 and CRS-3 Carrier Routing System: IOS XR 4.3.2
- Cisco Aggregation Series Routers (ASR) 9000: IOS XR 4.3.2
- Cisco ASR 9001: Release 2.0 hardware
- Cisco ASR 9922
- IOS XE 3.10 - RLS16/RLS3.10 - 15.3(3)S

Reports

New reports include:

- Data Center
 - Cisco Adaptive Security Appliance Services Module (Cisco ASASM)
 - Cisco Virtual Security Gateway (VSG) service path
 - Cisco Nexus Gateway Load Balancing Protocol

- Cisco ASA 5000 firewall reports for four node clusters
- Cisco Nexus 7000 Virtual Routing and Forwarding (VRF), Virtual Device Context (VDC), and VLAN inventory counts
- Cisco Catalyst 6000 Virtual Switching System (VSS)
- Cisco ASA Intrusion Prevention System (IPS) reports
- Symmetricom TP5000 and TP2700 reports
- Mobility reports:
 - StarOS: additional APN, PGW, and SAEGW KPI reports
 - StarOS 15.0: eGTP - GTPv2 cause code resolution and PGW
 - StarOS 15.0: Gx - Proxy-Call Session Control Function (P-CSCF) allocation monitoring
 - StarOS 15.0: Gx - IMSA result code bulkstats

Release 1.4 New Features and Enhancements

Prime Performance Manager 1.4 new features and enhancements are provided in the following sections. You can view a detailed list of changes in this release after installation by choosing **Help > READMEs and CLI Commands > CHANGES**.

Alarms

Alarms enhancements include:

- Allow creation of rising or falling Alarms in TCA Editor.
- Support customized TCA messages when creating TCAs.

Data Center

Data Center areas for support and enhancements include:

- UCS statistics collection through XML interfaces
- XML polling of Cisco Nexus 7000 NETCONF
- Trend analysis
- Multi-tenancy
- Process vMotion events
- Data Center view last ten subviews rolup
- Cisco Nexus 7000 BGP virtualization
- NetScaler
- Cisco ASA 1000V
- Cloud Service Router 1000V
- VSG
- vCenter cluster

New Supported Devices

New supported devices include:

- Cisco CRS CGSE blade
- Support parsing versions from NetApp and ACE devices
- Cisco ASR 9922 Megatron
- IOS XE Release 3.8 and 3.9 on provider access platforms
- UMMT 3.0: device coverage and service-aware OAM reports
- Cisco CPT Release 9.5.2.2
- IOS-XR Release 4.2.2, 4.2.3, and 4.3.1 and video monitoring (VidMon)
- Cisco IP NGN 1.2 supported devices include:
 - Cisco ASR 1000 XE 3.9, R15 IOS 15.3(2)S
 - Service provider access platforms: Cisco ME2600X, Cisco ASR 941, Cisco CPT 50-VE - XE 3.6 / R12, XE 3.8.x, XE 3.9, Cisco ASR 901 R14 - IOS 15.3(1)S
 - Service routing platforms: Cisco ASR 1000 - XE 3.8.1S/3.8.2S - R14 - IOS 15.3(1)S, Cisco ASR 901/ASR 903/ME3600/ME3800X R15/RLS39 - IOS 15.3(2)S
 - High end routing, switching, and optical platforms: Cisco 7600 - XE 3.9 - R15/R39 - 15.3(2)S Cisco CRS XR 4.3.1 Release, Cisco ASR 9000 XR 4.3.1 Release, ONS 15454 MSTP Release 9.6.0.3 (IPoDWDM 3.0)
- Cisco MWR 2941 - IOS Release 3.5 - RLS1015.1(3)MR / 15.1(03)S3 / XE 3.4.

Framework

Framework enhancements include:

- Adaptive polling enhancements
- 95th percentile reporting
- NetFlow based reporting - collector and predefined reports
- Predictive trending and forecasting
- Automatic generation and emailing of reports in PDF format
- JMX/JMS based data collection
- IOS DCM 2.0 bulk data collector support - IOS platforms
- Compatibility with Prime Network 3.10/3.11/4.0 inventory and cross launch
- Scale enhancements
- Additional internal Prime Performance Manager metrics reports
- Send messages to logged in users through messaging system
- Upgrade Tomcat to Version 7.0.32
- CLI enhancements
- SNMP GetBulk per column versus per row selectable per device - Nexus/7600/ONS
- SNMP GetBulk per column versus per row selectable per device - Nexus/7600/ONS - GUI
- Support SNMPv1 polling
- GUI control of additional backup parameters
- REST API enhancements

- Reduce time check of disk space from 5 to 15 minutes
- NBAPI enhancements

GUI Enhancements

GUI enhancements include:

- 360 degree style widget for device details
- Enable TCA creation in views and dashboards
- Show list of devices per report policy
- Comparison graph of VMs against hypervisor and blade
- User preference enhancements
- Alarm GUI updates
- Custom report builder for Web reports

Cisco Prime Central Enhancements

Cisco Prime Central enhancements include:

- Inventory and credentials import
- Dashlets and dashboards in Prime Central

Prime Suite Enhancements

Cisco Prime Suite enhancements include:

- Multi instance domain manager integration framework

New Reports

New reports include:

- ClassMap Packet Statistics
- MLPP ClassMap Drops Packet/Bytes Rate
- Mobility - StarOS CDMA reports: HA, FA, MIPV6, LNS, LAC, PPP, BCMCS, HSGW, MVS1, MVS2, MVS3, RP1, RP2
- Cisco ASR 5000 reports: MAG
- Cisco ASR 5000 reports EPC reports - LMA. Diameter AcctPDG
- Mobility StarOS reports
 - KPI reports: APN/eGTPC, card/port, system, GTPP/GTPC/GTPU, IPPool/IMSA/PPP, ECS/FA/HA, radius/diameter, PGW, SGW, eGTPC, HSGW, LAC, SAEGW
 - SS7 reports: bulk statistics schema
 - MME reports: MME/SGs/HSS - bulk statistics schema
 - SGSN reports: SGSN/MAP/SGTP-bulk statistics schema and SCCP - bulk statistics schema
 - GGSN: GTPCMgr,HDD Utilization + Other Updates
 - CLI reports: CPU/Memory
 - Mobility: filter option for EGTPC S5/S8 SGW/PGW interface reports / maxEntriesPerId tag where filter tag used
 - KPI reports: MUR - PGW/SGW

- GGSN: software licenses, DPCA+DCCA KPIs
- StarOS 14.1 and Cisco ASR 5000 EPC reports: ePDG PMIPv6 - StarOS 14.1
- Data Center Reports:
 - Cisco UCS NIC/HBA interface reports
 - Cisco UCS Server: FCOE utilization reports
 - Datastore through WebServices for IOPS/Latency
 - NetApp storage reports, additional operational statistics
 - Cisco UCS C-Series rack server
 - Cisco ASA 5585 firewall reports
 - Network statistics: Nexus and environment
 - LISP
 - ISIS: Nexus and Nexus OTV
 - Cisco Nexus 5000 and 7000: VPC modules using CLI poll
 - Cisco UCS NIC/HBA interfaces
 - NetScaler reports
 - Direct datastore reports
 - VMWare cluster reports
 - Nexus 3000, 5,000 and 7000: RSTP through the CLI
 - Nexus VDC: VRF and VLAN statistics
 - Nexus 1000: priority list module reports
 - Nexus 7000 using NetConf - environment
 - Fabric Path L2 Multi-Path F-tag Tree
 - VM Free Space Top 5 report
 - Cisco ASA 1000V
 - Network statistics on LANs and SANs
 - Cisco ASA 5000 firewall for four node clusters
 - Cisco ASR 9000
- General Reports
 - TCAM usage using SWITCH-ENGINE-MIB
 - SPWiFi: ASR1K
 - MPLS Tunnels: Translate LSR IDs to Hostnames
 - Y.1731: Display VLAN Info
 - Y.1731: ETH-SLM - IOS support
 - Y.1731: ETH-SLM - XE 3.8 support - LMN/LMR - ME3400 and ASR901
 - Y.1731: ETH-SLM - XR 4.3.0 and XE 3.8 support - LMN/LMR
 - Display VRF Info in IPSLA reports
 - Interface broadcast packets reports
 - IPSLA one-way delay metrics

- Aggregated IPSLA jitter
- IPSLA reports use current values instead of hourly buckets
- IPSLA ICMP and UDP echo as unique reports instead of under round trip time
- Performance Monitoring reports uBR10012-CMTS traffic statistics
- uBR10012: wideband and EVC statistics
- Performance monitoring reports: uBR10012- CMTS View
- IPSLA ICMP echo and UDP echo As separate reports
- BGP reports using CISCO-BGP4-MIB
- Number and percentage of nodes and interfaces in up state per node/system
- BGP VRF crosslaunch
- Display OSPF AreaID also in integer format
- Netflow based carrier grade NAT: CGNAT
- VidMon: support ISR1900, ISR2900, ISR3900
- Additional BGP/AS NetFlow reports
- 64Bit compatible CISCO-ENHANCED-MEMPOOL-MIB
- ASA IPS reports
- Security Reports
 - PSB: SEC-SUP-CHAR-2: support special characters in passwords
 - User Groups: assign report filter to user group
 - User Groups: user group editor

Important Notes

- Solaris support is discontinued. From this release onwards, Prime Performance Manager installation is only supported in a Linux environment and is no longer supported in a Solaris environment.
- After upgrading to Release 1.4.1, the Prime Performance Manager GUI does not initially display the reports that are new to this release. To make these reports available, choose **Save Report Settings** from the Administration menu.

Using the Bug Search Tool

Use the Cisco Bug Search tool to search for a specific bug or to search for all bugs in a release.

To use Bug Search:

Step 1 Go to <http://tools.cisco.com/bugsearch>.

Step 2 At the Log In screen, enter your registered Cisco.com username and password; then, click **Log In**. The Bug Search page opens.



Note If you do not have a Cisco.com username and password, you can register for them at <http://tools.cisco.com/RPF/register/register.do>.

Step 3 To search for a specific bug, enter the bug ID in the Search For field and press **Return**.



Tip

To display open bugs in Prime Performance Manager 1.4 or 1.4.1, launch Prime Performance Manager, then from the Help menu, choose **Release Notes**.

Step 4 To search for bugs in the current release:

- a. In the Search For field, enter **Prime Performance Manager 1.4** or **Prime Performance Manager 1.4.1** and press **Return**. (Leave the other fields empty.)
- b. When the search results are displayed, use the filter tools to find the types of bugs you are looking for. You can search for bugs by modified date, status, severity, and so forth.



Tip

To export the results to a spreadsheet, click the Export Results to Excel link.

Related Documentation

You can access the following Cisco Prime Performance Manager guides on the [Cisco Prime Performance Manager](#) page on Cisco.com:

- [Cisco Prime Performance Manager 1.4 User Guide](#)
- [Cisco Prime Performance Manager 1.4 Release Notes](#) (this document)
- [Cisco Prime Performance Manager 1.4 Quick Start Guide](#)
- [Cisco Prime Performance Manager 1.4 Integration Developer Guide](#)
- [Open Source Used in Cisco Prime Performance Manager 1.4](#)
- [Cisco Prime Performance Manager 1.4 Documentation Overview](#)

The Prime Performance Manager data sheet can be found at <http://www.cisco.com/go/performance>



Note

We sometimes update the documentation after original publication. Therefore, you should review the documentation on Cisco.com for any updates.

Accessibility Features in Prime Performance Manager 1.4 and 1.4.1

The Prime Performance Manager 1.4 and 1.4.1 software does not provide any accessibility features. All product documents are accessible except for images, graphics, and some charts. If you would like to receive the product documentation in audio format, braille, or large print, contact accessibility@cisco.com.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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