

Release Notes: WANDL IP/MPLSView

Release 6.2.0
17 August 2015

These release notes accompany WANDL IP/MPLSView Release 6.2.0.

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Introduction

WANDL IP/MPLSView is a Juniper Networks® multivendor, multiprotocol, and multilayer operations system support (OSS) traffic management and engineering solution for IP and MPLS networks that provides customers with the following benefits:

- Integrated and comprehensive fault, configuration, accounting, performance, and security (FCAPS) network management on a single platform
- Multivendor integration for fast network autodiscovery
- Support for modeling regional, national, and international network topologies
- Performance management for tuning the network to improve efficiency, analyze traffic trends, and prevent problems
- Conformance checking to ensure standards compliance
- Fault management tools to quickly detect and troubleshoot network issues

New and Changed Features

This section describes the new and enhanced features in WANDL IP/MPLSView Release 6.2.0.



NOTE: For the most up-to-date information about WANDL IP/MPLSView Release 6.2.0, see these Release Notes.

- [Features Added to Web Portal on page 2](#)
- [High Availability on page 3](#)
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- [User Administration on page 6](#)

Features Added to Web Portal

- **New features supported in Web Portal**—Starting in WANDL IP/MPLSView Release 6.2.0, the Web Portal supports the following features that enable you to set up data collection from the live network, administer user accounts, and perform network troubleshooting directly from the Web Portal. In IP/MPLSView releases earlier than Release 6.2.0, these features were available only from the Java client module.

- **MIB Browser**—Searches your network devices for MIB and object identifier (OID) information.
- **Reports**—Generates on-demand Web reports for the live network.
- **Task Manager**—Schedules and executes a variety of tasks including network discovery, configuration collection, data collection, and report generation.
- **Traffic Collection Manager**—Manages data collectors and controls the type of traffic data collected from your network devices.
- **User Administration**—Manages user access to IP/MPLSView features, and organizes devices into regional control groups.
- **Web logout actions added to User Activity Log**—Starting in WANDL IP/MPLSView Release 6.2.0, you can view information about Web logout actions in the User Activity Log. In IP/MPLSView releases earlier than Release 6.2.0, the User Activity Log did not display Web logout actions.



NOTE: When you log out of the IP/MPLSView Web Portal, you must click **logout**. Simply closing your Web browser or closing the browser window tab does not record this action as a Web logout in the User Activity Log.

High Availability

- **Linux OS high availability support**—Starting in WANDL IP/MPLSView Release 6.2.0, you can install and configure high availability for the CentOS 6.5 64-bit Linux operating system. High availability support provides redundancy, reliability, and resiliency for packet-based communications. In IP/MPLSView releases earlier than Release 6.2.0, high availability is supported only for the Oracle Solaris Operating System.

The following software components, which are part of the Red Hat Enterprise Linux High Availability Add-On, are installed for high availability:

- **Resilient storage**—Global File System 2 (GFS2) supports concurrent access.
- **High availability**—The CentOS high availability add-on reduces application downtime, ensures that a cluster has no single point of failure, and isolates unresponsive applications and devices to prevent corruption of critical enterprise data.
- **High availability management**—High-availability service management, which is installed only on the management node, enables you to create and manage high-availability cluster services in a CentOS cluster.

MIB Browser

- **Support for MIB Browser in Web Portal** —Starting in WANDL IP/MPLSView Release 6.2.0, you can use the MIB Browser from the Web Portal to perform the following tasks:
 - Load and view MIB information
 - Query SNMP MIB information from network devices

- Organize the MIB tree display

Reports

- **Support for on-demand Web reports in Web Portal**—Starting in WANDL IP/MPLSView Release 6.2.0, you can use the Web Portal to generate on-demand Web reports for the live network. To generate these reports in IP/MPLSView releases earlier than Release 6.2.0, you used Task Manager from the Java client GUI to schedule the Web report tasks.
- **Newly Discovered Devices report**—Starting in WANDL IP/MPLSView Release 6.2.0, you can use the new Newly Discovered Devices report to quickly and easily identify newly discovered devices or devices that are no longer in the network. In IP/MPLSView releases earlier than Release 6.2.0, newly discovered network devices are not indicated in the Report Manager.
- **Hardware Inventory report enhancements to display IPv6 and AS information**—Starting in WANDL IP/MPLSView Release 6.2.0, the Hardware Inventory report includes two new columns, labeled IPv6 and AS, to display the IPv6 address and autonomous system (AS) number, respectively. In IP/MPLSView releases earlier than Release 6.2.0, IPv6 information is reported in node, link, and interface windows but not in the Hardware Inventory report.
- **Support for BGP autonomous system filters**—Starting in WANDL IP/MPLSView Release 6.2.0, the following reports accessible from the Network Reports menu support BGP autonomous system (AS) filters (for example, NodeA.AS and NodeZ.AS):
 - **Network Reports > Link Reports > Demand Traffic vs Interface Traffic**
 - **Network Reports > Group > Group Demand Traffic on Link Detail**
 - **Network Reports > Group > Group Interface Load Detail**

In addition, you can use NodeA.AS, NodeZ.AS, NodeA.Group, and NodeZ.Group as search terms in the IP/MPLSView Advanced Filters GUI.

RESTful API

- **Support for RESTful API**—Starting in WANDL IP/MPLSView Release 6.2.0, you can use the Representation State Transfer (RESTful) API to enable northbound systems interacting with higher-level applications to receive various data sets by means of standard HTTP GET requests. The RESTful API enables you to query information about the network topology, performance management, hardware components, and traffic collection.

The RESTful API includes the following data sets:

- Traffic and performance management data for network and device performance

For example, the RESTful API for traffic and performance management data enables you to retrieve information about interface and label-switched path (LSP) traffic by router or by date. You can also retrieve data for network connectivity (using the Ping tools), link latency, CPU and memory usage, CPU temperature, and system uptime.

- Network model data for nodes, links, interfaces, MPLS traffic engineering LSPs, and hardware inventory

For example, the RESTful API for network model data enables you to retrieve a list of all nodes that have interfaces, a list of all interfaces configured for a given node, or a list of the traffic engineering LSPs for a given node. When the Scheduling Live Network Collection task completes, IP/MPLSView creates the JavaScript Object Notation (JSON) files in the `/u/wandl/data/network_web1/nodes` directory.

System Administration

Support for new commands—Starting in WANDL IP/MPLSView Release 6.2.0, you can use the following commands to support the RESTful API feature and Web Portal components:

- To see the process status, issue the `/u/wandl/bin/status_mplsview` command.
- To manually start services, issue the `/u/wandl/bin/nodejs_server.sh start` command.
- To manually stop services, issue the `/u/wandl/bin/nodejs_server.sh stop` command.

In IP/MPLSView releases earlier than Release 6.2.0, these `nodejs` commands are not implemented.

Task Manager

- **Support for Task Manager in Web Portal** —Starting in WANDL IP/MPLSView Release 6.2.0, you can use Task Manager from the Web Portal to perform the following tasks:
 - Create, modify, delete, duplicate, and schedule network tasks
 - Stop a task that is in progress
 - Search on the name or type of task
 - Chain together similar tasks
 - Remove nodes for specific tasks

For most tasks, the Task Manager GUI in the Web Portal is similar to the Task Manager GUI in the Java client.

- **Support for device profiles in Web Portal**—Starting in WANDL IP/MPLSView Release 6.2.0, you can create, modify, and delete device entries and device profiles from the Web Portal. You can also test the network connectivity of the devices in your profiles, and import device profiles from other sources into IP/MPLSView.
- **Support for Juniper Networks interface modules in Device SNMP Collection task**—Starting in WANDL IP/MPLSView Release 6.2.0, additional information collected in the Device SNMP Collection task includes interface modules for Juniper Networks devices. In IP/MPLSView releases earlier than Release 6.2.0, information from the Device SNMP Collection task did not include interface modules for Juniper Networks devices.

Traffic Collection Manager

- **Support for Traffic Collection Manager in Web Portal** —Starting in WANDL IP/MPLSView Release 6.2.0, you can use Traffic Collection Manager from the Web Portal to perform the following tasks:
 - Create, modify, and delete router groups
 - Assign routers and data collectors to router groups
 - Select the collection tables you want to use for data collection
 - Modify device profile properties for data collection
 - Manage collection status
 - Test network connectivity

User Administration

- **Support for User Administration in Web Portal** —Starting in WANDL IP/MPLSView Release 6.2.0, you can use User Administration from the Web Portal to perform the following tasks:
 - Create, modify, and delete users and user groups
 - Assign users to user groups
 - Assign permissions to view or modify features at the user group level
 - Define regions and assign devices to regions
 - Use Web VPN groups

Changes in Behavior and Syntax

No changes in default behavior or syntax are introduced in WANDL IP/MPLSView Release 6.2.0.

Known Behavior

No changes in known behavior are introduced in WANDL IP/MPLSView Release 6.2.0.

Known Issues

This section lists the known issues in hardware and software in WANDL IP/MPLSView Release 6.2.0.

- When you use the T-Solve module to generate CSV reports, using the European locale can erroneously insert extra commas in the reports. This behavior occurs only when the locale setting uses a comma instead of a period for the decimal symbol. As a workaround, use the US locale setting, which uses a period for the decimal symbol. [PR/1102110]

Resolved Issues

This section lists the issues fixed in WANDL IP/MPLSView Release 6.2.0.

- When you log in as a non-WANDL user and select **Web > Network Map**, the Network Map opens the networks of WANDL users. [PR/1037260: This issue has been resolved.]
- In the Device Change Tracking window, committing a change to a hostname fails with the following error message: “Could not commit changes to the hostname.” A similar commit failure occurs when you right-click a task in Task Manager and select **Remove Nodes in Scheduled Tasks**. [PR/1045988: This issue has been resolved.]
- If Chinese characters are included in the export report from the Compliance Assessment Tool window, the exported CSV file contains unreadable code. [PR/1047953: This issue has been resolved.]
- Adding a Martini VPN to the network does not work as expected, and sometimes generates a core error. [PR/1049512: This issue has been resolved.]
- In the Event Map, the node does not change to the appropriate color for its severity level as expected when an event is received or when you clear all events. [PR/1051951: This issue has been resolved.]
- When you right-click an event in Live Event View from the Event Browser, only those nodes associated with the selected event should be highlighted. Instead, nodes associated with previously selected events erroneously remain highlighted when you right-click subsequent events associated with different nodes. [PR/1053393: This issue has been resolved.]
- The Tunnel Event Viewer displays incorrect status for the tunnel path. [PR/1053704: This issue has been resolved.]
- The Event Browser randomly fails to display certain events as expected. [PR/1053835: This issue has been resolved.]
- During a Schedule Live Network Collection task to collect configuration information from several devices in a single device profile, the operation fails because it cannot connect to the first device. When this occurs, the Schedule Live Network Collection task does not continue the collection on the other devices in the profile as expected, even though those devices are individually reachable. [PR/1062287: This issue has been resolved.]
- The Report Server fails to install as expected. [PR/1063984: This issue has been resolved.]
- SNMP statistics can sometimes display improperly when E Series routers are added to the network topology. [PR/1064332: This issue has been resolved.]

- The installation files for the Application Server, Viewer Server, Report Server, Data Collector, and database display out-of-date copyright information. [PR/1064631: This issue has been resolved.]
- After importing tunnel path information from the collection files, the traffic engineering (TE) tunnel status is erroneously reported in the On Pref Rt field as “not routed”. [PR/1064871: This issue has been resolved.]
- WANDL IP/MPSView Release 6.1.2S is missing the Jump Server. [PR/1066101: This issue has been resolved.]
- Selecting **Network > Nodes** in the Web Portal sometimes displays the incorrect Admin Status. [PR/1067442, PR/1093980: This issue has been resolved.]
- WANDL IP/MPLSView cannot accurately recognize the RSVP label-switched path (LSP) bandwidth if Auto Bandwidth is enabled. [PR/1069236: This issue has been resolved.]
- The Mongo database does not start as expected when a lingering process is running in the background. [PR/1073326: This issue has been resolved.]
- When running the LDP Traffic Collection Task with the Use ECMP option enabled, LDP demands are generated without the equal-cost multipath (ECMP) flag as expected. [PR/1075697: This issue has been resolved.]
- Customer requests the ability to directly add configuration files from the Compliance Assessment Tool window. [PR/1080074: This issue has been resolved.]
- Customer requests that when you open the Compliance Assessment Tool, a pop-up window should open that enables you to select the project to open. [PR/1080075: This issue has been resolved.]
- Customer requests that when you open the Template Designer, a pop-up window should open that enables you to select the project to open. [PR/1080076: This issue has been resolved.]
- When you attempt to add a Layer 3 VPN with the same name as a VPN that you previously deleted from the topology, the new VPN is not added to the topology as expected. [PR/1080684: This issue has been resolved.]
- Unexpected output is displayed in the Choose Value(s) window of the Web Event Browser. [PR/1081217: This issue has been resolved.]
- When running a configuration statistics collection task in Task Manager, some nodes are not added to the inventory even though the collection task completed successfully. [PR/1081355: This issue has been resolved.]
- When exporting to the Web, an error message is unexpectedly displayed requesting that the user contact JTAC for assistance. [PR/1081356: This issue has been resolved.]
- Running the SNMP Collection task on a TX Matrix Plus router unexpectedly fails, and displays the error message “No CPU/MEM values obtained from the device”. [PR/1082527: This issue has been resolved.]
- Issuing the `/u/wandl/bin/eraseNode.sh` command fails to delete the associated configuration file as expected. [PR/1092195: This issue has been resolved.]

Documentation Updates

This section lists the errata and changes in Release 6.1.0, Release 6.1.1, and Release 6.1.2 documentation for WANDL IP/MPLSView.

- [Getting Started Guide for NPAT and IP/MPLS on page 9](#)

Getting Started Guide for NPAT and IP/MPLS

- In the *Getting Started Guide for NPAT and IP/MPLSView*, the “Recommended System Configuration” section in Chapter 1, “System Requirements for IP/MPLSView” erroneously states the following as a server requirement:

- Linux Red Hat/CentOS 5.5 or higher

This item should be updated to read as follows:

- Linux Red Hat/CentOS 5.5 or 6.x



NOTE: WANDL IP/MPLSView is *not compatible* with Red Hat 7.x.

Upgrade Instructions

To upgrade the server for WANDL IP/MPLSView to Release 6.2.0, you must be running IP/MPLSView Release 6.0.0 or later. You cannot upgrade the server to Release 6.2.0 from an IP/MPLSView release earlier than 6.0.0.

If you need to upgrade to IP/MPLSView to Release 6.2.0 from a release earlier than 6.0.0, contact the Juniper Networks Technical Assistance Center (JTAC) for support.

Product Compatibility

- [Software Compatibility on page 9](#)
- [Discontinued Software Support on page 10](#)

Software Compatibility

WANDL IP/MPLSView Release 6.2.0 requires installation of the following software components:

- 64-bit Linux OS (can be either CentOS 6.x or Red Hat 6.x)
- 64-bit Solaris 10 OS
- Java Version 1.7 or Java Version 1.8



NOTE: WANDL IP/MPLSView Release 6.2.0 is *not compatible* with either Solaris 11 OS or Red Hat 7.x.

Discontinued Software Support

WANDL IP/MPLSView Release 6.2.0 *no longer supports* either of the following operating systems:

- 32-bit Linux OS
- 32-bit Solaris OS

Requesting Technical Support

Technical product support is available through the Juniper Networks Technical Assistance Center (JTAC). If you are a customer with an active J-Care or JNASC support contract, or are covered under warranty, and need post-sales technical support, you can access our tools and resources online or open a case with JTAC.

Revision History

17 August 2015—Revision 1, WANDL IP/MPLSView Release 6.2.0

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