

VERTIV™

Trellis™ Real-Time Infrastructure Optimization Platform

Release Notes

VERSION 5.0.4, FEBRUARY 26, 2019

Release Notes Section Outline

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1 New Features Overview

Version 5.0.4 of the *Trellis*™ real-time infrastructure optimization platform introduces the following new functionalities:

- **Thermal Overview**
 - Provides thermal data at rack/CRAC levels through dashboard widgets
 - Provides all data that was deprecated in 4.0.3.
 - Provides HeatMap comparison of various sensor data in a rack.
- **Rack Space Widget**
 - Provides the ability to view Rack Power, Space and Cooling Capacity in dashboard widgets.
- **Power Consumption Dashboard**
 - Provides the ability to view real-time and simulated power-consumed information at rack Power Distribution Unit (PDU) and breaker levels.
 - Provides Topology View of the power chain up to the panel level.
 - Provides Sankey diagram of power consumption.
- **Device History**
 - Filters history of operations performed on devices by using the History button in Portfolio View.
- **Search by Process ID**
 - Allows searching of audits based on Process ID from workflows.
- **Latest Readings in Property Panel**
 - Allows users to configure the latest readings of a monitored device in the Property panel.
- **Alarms in Property Panel**
 - Adds ability to see active alarms on a device in the Property panel when in either 2D or 3D views.
- **Alarm Escalations by Groups**
 - Allows setting up escalation rules by group along with users.

- **Share Dashboards**
 - Adds ability to share dashboards within the same tenancy, including top tenancy.
- **Import/Export Dashboards**
 - Adds ability to export and import custom dashboards.
- **Notification Rule**
 - Enhances Notification rules to support rules by floor and space levels.
- **Subscription Framework**
 - Adds ability to subscribe to Alarm Notifications for dynamic refresh.

2 General Features Overview

The following list details existing components of the *Trellis*TM platform software:

- ***Trellis*TM Management Console platform:** The console platform enables the unified management of the data center IT and facilities infrastructure. The platform of hardware, software and services provides the ability to collect and analyze real-time data from managed devices using a single user interface.
- ***Trellis*TM Inventory Manager software module:** This module provides features to better utilize IT and critical infrastructure equipment by managing the inventory of all physical assets and determining used and available space in the data center.
- ***Trellis*TM Site Manager software module:** This module reports the health of the infrastructure to data center personnel, enabling them to recognize and resolve conditions that impact infrastructure availability and system performance.
- ***Trellis*TM Reports and BI feature:** Reports are created by opening a canned report and applying filters. Filters are used to select data and combine multiple values using logical connectors.
- ***Trellis*TM Power Systems Manager software module:** This module provides data center personnel with the ability to monitor the power flow of their building through the one line diagram.
- ***Trellis*TM REST APIs:** The REST APIs allow any third party software system to interact with *Trellis*TM platform. These APIs are available as secure web services.
- ***Trellis*TM Process Manager software module:** Designed around industry best practices and input from our customers, *Trellis*TM Process Manager includes four set processes, as well as a better way to assign/ track work and manage approvals through workflow. These four processes include installing, moving, decommissioning and renaming devices. Each of these is configurable to reflect the user's individual workflow. Through these capabilities, the user has the ability to initiate, analyze and report on core data center processes used to drive the business, and can also more effectively manage his/her environment. The value of *Trellis*TM Process Manager lies in its ability to reduce the risks associated with changes in the data center and at the same time, improve worker efficiency.
- ***Trellis*TM Audit Events feature:** The Audit Events feature has been enhanced to cover more of the *Trellis*TM platform functionality to record Audit Events. Examples are Device Create & Place/Delete, Move, Enable/Disable Monitoring, Create/Delete Power Connection and Update Device/Container Properties. Event Description now contains more details such as device name, container name, username, and so on, to give better insight into the respective event. Event Viewer functionality has also been enhanced to support pagination to improve user experience.
- ***Trellis*TM Platform Fine Grained Authorization feature:** The Fine Grained Authorization (FGA) feature is used to provide another level of security where roles are granted View or Manage access rights to resources (enterprises, buildings, floors, spaces, zones, devices) that have been created in the *Trellis*TM platform. Users will only be able to view/manage resources based on roles assigned to them.
- ***Trellis*TM Thermal Systems Manager software module:** The *Trellis*TM Thermal Systems Manager balances total cooling production with the actual heat load at the room and rack level, which allows facilities management to understand the true thermal capacity for planning and redundancy and reduce wasteful overcooling to lower energy costs.

3 Notes and Special Instructions

General Information

- For more information and detailed instructions on using the *Trellis™* platform, visit <https://www.vertiv.com/en-us/products-catalog/monitoring-control-and-management/software/trellis-enterprise-solutions/> for accompanying user documentation.
- Version 5.0.4 of the *Trellis™* platform supports *Trellis™* Intelligence Engine version 4.6.1.39 (upgrade only for Red Hat), as well as the Avocent® Universal Management Gateway appliance firmware version 4.2.0.34, containing the embedded *Trellis™* Intelligence Engine version 4.0.4.20.
- The *Trellis™* platform version 5.0.4 release supports the following Operating Systems (OS): Red Hat Enterprise Linux (certified on RHEL 6.10 and 7.5), CentOS (certified on 7.5) and Microsoft Windows 2012 R2 Standard.
- Supported browsers include Microsoft Edge (42.17134.1.0 or later) and Chrome (58.0.3029 or later). Firefox (63.0.3 or later) is supported, but only on a single user per workstation basis. Logging into the *Trellis™* platform using multiple user accounts from the same workstation is not supported when using the Firefox browser.

4 Upgrading the Platform

Prior to upgrading the *Trellis™* platform to version 5.0.4, please refer to the *Trellis™* Real-Time Infrastructure Optimization Platform Administrator Guide for Linux or Windows. Also, if you are currently using version 5.0 and are upgrading to 5.0.4, contact your account manager or sales person to facilitate the upgrade. If you have a customized workflow application or other non-standard platform configuration, it is recommended that you contact your account manager or sales person before considering a *Trellis™* platform upgrade, regardless of your current platform version.

NOTE: The *Trellis™* platform software version 5.0.4 can be applied ONLY on top of version 5.0.3. Do not upgrade to 5.0.4 from any previous versions other than 5.0.3, or attempt to use for new installations.

NOTE: If you are upgrading from version 4.0.3 or earlier, do not attempt to upgrade without contacting your account manager first.

5 Known Issues

REFERENCE	SUMMARY
49952	Filtering by subject in the Event Viewer may not display more than 140 events without a refresh.
44547	Cannot connect to Hyper-V running on Windows 2012 platform.
50823	Property panel doesn't display properties for a locked device.
50875	Recursive Tenant Assignment is available only for single tenant selection. Although the option is available for multiple tenants, functionality is not supported.
50903	Inventory Manager reports are not available if only Site Manager and PSM license are activated.
50928	Floor properties cannot be updated when altitude is entered in centimeters.
50982	One Line Diagram displays incorrect designed capacity as measured for Floor UPS.
51568	Available rack units on a rack are incorrect when devices are moved after tenant assignment.
51569	Report permissions window displays all system users, irrespective of tenancy.

REFERENCE	SUMMARY
51572	Firefox browser has caching issues when changing permissions or reusing the same browser session for multiple users.
51605	Tenant receives alarm notifications when devices are unassigned to tenant.
51614	Thermal Capacity on floor and space displays in BTUH. Actual measurement is in BTU.
51637	Zone Thermal Capacity doesn't consider cooling capacity factor per configuration.