
Trellis™ Real-Time Infrastructure Optimization Platform Release Notes

Version 3.4.1 Patch UPDATE!

August 3, 2015

This document outlines:

1. Main Features
2. Platform Updates
3. Notes and Special Instructions

1. Main Features

The *Trellis™* platform version 3.4.1 patch enables third party features for ad-hoc reporting as well as *Trellis™* Process Manager, and also includes resolution of selected PRs. Newly enabled third party features are detailed in the *Trellis™* platform user guide, and the PRs addressed in the 3.4.1 patch are described in the following table.

PR	Description
23590	Devices cannot be placed due to incomplete localization.
23684	Updated floor name is not immediately reflected in the Connection view.
27092	Delete warning message displayed is different between Portfolio and Graphical views.
27672	Tokens are not displayed in the event viewer while the Element Library symbols are being pushed to the Avocent® Universal Management Gateway appliance.
29293	Close button on the Save Text Attributes window does not correctly describe the action event.
30454	Message displayed when scheduling a report with the same name is confusing to the user.
33865	Updating the configure environmental threshold using the delete option to change the values incorrectly results in a delete space warning alert.
34333	Central Graphical view and Portfolio tree selection do no match.
34417	Unplaced devices are not listed in sorted order.
34479	Multiple device rotation in a grid space still proceeds when one device falls out of the space.
34750	Resource bundle name is incorrectly displayed for Category column in custom reports.
34823	Default sort should be present in Location column on the UDP by Device report.
34847	Connectors should not be interchanged for Patch panel and Blade server in a first level connection.
34910	TGDD values are incorrectly displayed for input filters on detailed page.

PR	Description
34963	PSM Expression Builder incorrectly includes data points that are not included in the Custom EL.
35060	Formatting issues are present on the report data page of the Rack Visual Report.
35070	Zoom extents button in toolbar does not center the image.
35154	Resizing the name column in the capacity search results excludes search results.
35210	Error is displayed when a newly created custom report is executed.
35297	Devices moved between racks causes the device category to display in all capital letters.
35430	Formatting issues observed on report data page of the Device Visual Report.
35446	Device name is not properly displayed when it exceeds 100 characters.
35449	PSM: Device on graphical floor is not highlighted when user switches to graphical floor from one line diagram.
35460	Updating properties of unknown data port displays task twice in textual timeline.
35493	Error message is incorrectly displayed when locking a SwitchGear using properties accordion in future.
35520	When user selects the End Date as the Future Date, the Current Hour is not rounding correctly on the report header.
35524	Error is incorrectly displayed when user tries to drag and drop multiple symbols from Catalog table to Graphical and Central panel view.
35586	PSM: Data points values are not displayed on one line diagram despite the data points checkbox being selected in the in the Layers accordion.
35589	PSM: Right-click options and top level buttons are not disabled when multiple devices are selected with differing permissions.
35620	PSM: <i>Unexpected exception occurred</i> message displayed on system when user deletes text and clicks on <i>Select</i> button from top menu icon in one line diagram.
35622	Datapoints by Device Report: Count mismatch occurs on the chart if user selects the tabular data comparison.
35648	Entry of a previous date is incorrectly allowed when trying to put device in Maintenance Mode.
35652	Filtering roles under general permissions does not work properly when the first letter of the search work is in lower case.
35697	Device name change in graphical data/power connection view does not rename the tab name correctly.
35704	AM/PM not displayed in the time period section for all reports.
35709	Find capacity for blade server when using the catalog search does not set weight to null/empty.

PR	Description
35710	Device Image message is incorrectly displayed when user hovers over Category, Manufacture or Model from Catalog list.
35721	Graphical floor freezes when two or more users perform concurrent move operations on separate instances.
35848	System Exception is displayed when trying to select Device Category from Alarm Setting page.
35877	Version is not updated correctly when installing a higher EL version and an event is generated.

The following list details components in this version of the *Trellis*[™] platform software.

- ***Trellis*[™] 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*[™] Change Planner software module** - This module provides features that allow the data center manager to plan the data center for future additions through the use of detailed projects, GANTTS, and tasking.
- ***Trellis*[™] 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*[™] 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*[™] Energy Insight software module** - This module provides data center personnel with visibility into the data center's total consumption, energy costs, and PUE which enables them to measure the impact of decisions on the data center energy efficiency.
- ***Trellis*[™] 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*[™] Power System Manager software module** – This module provides data center personnel with the ability to monitor the power flow of their building through a one line diagram. The one line diagram also allows the data center personnel to see the current consumed and remaining capacity of devices at a glance and take action accordingly. Dashboards provide the ability to view the capacity trend and power status of devices.
- ***Trellis*[™] Integration API tool** - The integration API allow any third party software system to integrate with *Trellis*[™] platform .These APIs are available as secure web services.
- ***Trellis*[™] Process Manager software module** -Designed around industry best practices and input from our customers, *Trellis*[™] Process Manager includes four set processes as well as a better way to assign and 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 as well as helping them to more effectively manage their environment. The value of *Trellis*[™] 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™ BMS Integration module** – With the BMS (Building Management System) Integration module, the device monitoring feature of the *Trellis™* platform has been enhanced to support monitoring of BMS Devices. Features such as update monitoring configurations of monitored devices using Custom Element Libraries and Element Library synchronization have been introduced with BMS Integration.
- **Trellis™ Receptacle Monitoring and Control feature** – With the Receptacle Monitoring and Control feature, device views for selected rack Power Distribution Units (PDUs) in the *Trellis™* platform have been enhanced to support the display of information. Features such as viewing the data points for the receptacle openings on a supported PDU on both the Dashboard & Additional data points tabs of the device view, as well as sending commands from the Control & Configuration tabs of device view have been added to the interface.
- **Trellis™ Audit Events feature** – With the 3.0.2 release of the *Trellis™* platform, the existing Audit Events feature has been enhanced to cover more of the *Trellis™* 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™ Platform RFID Integration with Gen 2 support** - This feature allows real-time integration between an RFID supported rack and the *Trellis™* platform. As part of this feature, all physical device movements are reflected automatically within the *Trellis™* platform. The current release supports the integration via Gen 2 RFID tags from Methode.
- **Trellis™ Process Manager enhancement** - This enhancement is for devices to be placed within a rack only. The ability to define the specific placement within a rack when using *Trellis™* Process Manager has been added. As part of this enhancement, the install and move processes have been extended to allow for the specific position within the rack to be defined.
- **Trellis™ 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™* platform. Users will only be able to view/manage resources based on roles assigned to them.

2. Platform Updates

Avocent® Universal Management Gateway appliance update:

Apply firmware version 2.9.0.25.

3. Notes and Special Instructions

- For more information and detailed instructions on using the *Trellis™* platform, visit <http://global.avocent.com/us/olh/trellis/> for accompanying user documentation.
- The user “TrellisAdministrator” is case sensitive. **TrellisAdministrator** must be entered with initial caps as shown to get full and correct authorization permissions. All other users created using the *Trellis™* platform user interface (UI) need to be logged in as lower case to get full and correct authorization permissions.

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- The *Trellis*[™] platform software is accessible using secure connections (HTTPS) by default and non-secure connections (HTTP) are disabled. Contact Professional Services or Technical Support to modify this default configuration if required.
 - The *Trellis*[™] platform software is accessible using the Fully Qualified Domain Name registered on the front server. Contact Professional Services or Technical Support to modify this default configuration if required.
 - The front and back machines need to be restarted after the Authentication Provider configuration is modified (added/updated/deleted) using the Authentication tab in the *Trellis*[™] platform software user interface. This enables the authentication code to use the updated Authentication Provider configuration.
 - When adding an External Authentication Provider for the user credentials, the username should have the full distinguished name.

For example: "cn=BrowseUser,cn=Users,dc=yourdomain,dc=com".

NOTE: Without this, the added external Authentication Provider may not function as desired.

NOTE: Before enrolling an Avocent® Universal Management Gateway appliance, the appliance symbol download is required from Portal.

Element Library support summary

NOTE: *Trellis*[™] software version 3.4 and *Trellis*[™] Intelligence Engine version 3.4.1.36 are compatible with Element Library version 3.4.0.x and lower versions. For Receptacle support, please upgrade your existing devices to the latest 3.0 symbols which are part of the *Trellis*[™] platform software version 3.4.

- For SNMPv3 support, please configure the SNMPv3 destination IP as the Avocent® Universal Management Gateway appliance IP in the Device Configuration page and disable SNMPv1/v2 traps.

Pre-requisites

The *Trellis*[™] platform software version 3.4.1 can be applied on top of version 3.4 only. If you are upgrading from a previous version other than *Trellis*[™] platform software version 3.4, all sequential patches must be applied to move to version 3.4 before upgrading to the 3.4.1 patch. Do not try to apply 3.4.1 from any previous versions other than 3.4.

To update the Avocent® Universal Management Gateway appliance:

1. Upgrade the Avocent® Universal Management Gateway appliance firmware through the appliance Web UI or the DSView[™] 4 management software.
2. Within the *Trellis*[™] platform interface, install the latest element libraries into the Avocent® Universal Management Gateway appliance (2.9.0.25) by selecting *Administration - System Configuration - Universal Management Gateway Status - Status - Element Library*.

Trellis[™] platform RESTful API deprecated methods and properties

Deprecated Methods:

- /symbols/search/findByDeviceId
- /devices/search/findFromDeviceByConnectionId
- /devices/search/findToDeviceByConnectionId

Deprecated Properties:

- /zones – zoneUse

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