TRELLIS™ INVENTORY MANAGER

BENEFITS

- Minimize errors due to outdated or conflicting lists of assets; maintain only one comprehensive source of documentation for all devices in the data center.
- Find equipment and relevant asset data quicker through the search-and-locate feature as well as determine what connections exist for a chosen asset (no more tracing cables behind racks).
- Understand exactly what capacities exist within the data center, what has already been used and what is remaining, comparing consumption levels against thresholds.
- Plan, implement and track a complex set of steps involved in a project and even visualize the change via the rack timeline view.
- Build confidence among decision makers by knowing the impact of proposed changes (space, power and connections) before committing the resources to the project.
- Ensure IT and facilities teams are on the same page, reducing risks of unplanned downtime and other issues brought about by lack of coordination and multiple sources of information.
- Provide insight into what, when and where devices are going to be placed in all graphical views.
- Utilize floor space more efficiently when planning changes.

The *Trellis*[™] Inventory Manager allows data center stakeholders to know exactly what assets, connections and capacity exist in their facility and easily make changes for optimal performance. It provides a set of graphical visualization tools to allow the infrastructure team to map out its floor space and understand where assets are, who they belong to and how they are connected.

Trellis[™] Inventory Manager allows data center stakeholders to know exactly what physical or virtual assets, connections and capacity exist in their facility and easily make changes for optimal performance. It provides the ability to visualize physical and virtual inventory and show the physical capacities needed and available to support both. It removes the need for costly and unnecessary buffers and enables the facilities side to support all the virtual load it can handle. Trellis Inventory Manager provides a set of graphical visualization tools to allow the infrastructure team to map out its floor space and understand where assets are. who they belong to and how they are connected.

Users can collect a detailed catalog of all the inventory items that are placed in the data center as well as understand how much capacity (power, cooling, weight and space) is available and consumed at any point in the data center based on faceplate or de-rated values. View capacities in any floor/space, inside any elevation (e.g., rack) or inside the actual assets (e.g., blade chassis) with ease.

The Trellis Inventory Manager goes beyond inventory management and allows teams to intelligently plan projects and track changes made. It gives both IT and facilities teams a unified view of a project and the tasks assigned to each personnel to avoid errors due to lack of coordination. Project managers can visualize the state of the same rack in different periods of time through the rack timeline view. It is the perfect tool for implementing changes in the data center, from planning and execution down to auditing and reporting. Move inventory with ease and confidence, knowing capacity exists where assets are placed.

With *Trellis* Inventory Manager, there is no need for spreadsheets, Visio diagrams, physically searching the data center and endless meetings. Use it for better asset and project management.

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Manage Assets and Connections Visually

- Know exactly what's inside your data center so you can better manage and optimize your physical assets and virtual servers.
- Search and locate the full data center inventory without leaving your desk; use of symbolic library representation is like being physically present inside the data center.
- Select an asset and view all its properties, capacities, contained devices and connections to other devices.
- Create realistic floor plan models by importing AutoCAD plans and plotting the racks on the blueprint.
- View spaces and zones in an XY-tiled format to get a higher level of precision in pinpointing devices; rack elevation view shows the exact placement of all devices in your racks.
- Divide the data center floor plan based on functions by defining spaces, as well as zones within those spaces, so all users can quickly differentiate which areas are for production, staging and safety.
- Search devices using the software interface instead of roaming physically, reducing time spent by personnel inside the data center.
- Visualize the total capacity consumption via top-down view to show where you have capacity remaining and where you are nearing the limit.
- Show the power connections between any device port and its upstream or downstream devices; verify the status of all assets in the same power chain.

• Ensure a server's power redundancy through power dependency monitoring—you'll see if two different rack PDUs are connected to the selected device.

Implement Data Center Changes with Confidence

- Avoid "on-the-fly" decisions and reduce time for implementing data center projects.
- Conduct detailed impact analysis to determine e fect of planned change, lessen risks associated with it and avoid time-consuming rework.
- Plan out a complex set of steps involved in a project (such as server and rack moves, data connection changes, etc.) and then implement the change against a record of progress.
- Manage resource asset reservation(s) including rack space, power capacity and outlets.

- See the state of the same rack in different periods of time through the rack timeline view.
- Create standard data center processes and enforce policies with assignment and tracking of tasks.
- Reduce risks of unplanned downtime and other issues brought by lack of coordination by providing IT and facilities teams a unified view of projects.
- Fully comply with auditing requirements using a detailed record of changes made and the personnel accountable for specific tasks.
- Run customizable reports and export via CSV file.
- Build confidence among decision makers that planned changes are well-designed, well-documented, easy-to-follow and executed in a controlled manner.

Trellis™ Inventory Manager







Specifications - *Trellis*™

Workstation Requirements

Operating System:

- Microsoft® Windows® 7
- Microsoft[®] Windows[®] 2012
- Red Hat[®] Enterprise Linux version 7.x

Hardware Requirements:

- Dual-core Intel® Pentium® 4 CPU at 2.8 GHz
- 8 GB RAM, LAN connection

Hardware Recommendations

Browsers for the Trellis[™] platform user interface:

- Mozilla[®] Firefox[®] version 31.0 or higher
- Google Chrome™ version 40.0 or higher
- Microsoft Internet Explorer[®] 9 and 10 with standard mode (compatibility mode is off) and 11

Browsers for the symbol portal:

• Microsoft Internet Explorer® 9 and 10 (with compatibility mode on) and 11

Browsers for 3D features:

• Microsoft Internet Explorer® 11, Chrome and Firefox

SMALL	MEDIUM	LARGE	ENTERPRISE
10	20	50	100
2,000	20,000	100,000	200,000
1,000	10,000	60,000	100,000
2,000	10,000	60,000	100,000
1,000	10,000	40,000	140,000
	10 2,000 1,000 2,000	10 20 2,000 20,000 1,000 10,000 2,000 10,000	10 20 50 2,000 20,000 100,000 1,000 10,000 60,000 2,000 10,000 60,000

FRONT MACHINE	SMALL	MEDIUM	LARGE	ENTERPRISE
Processor	Intel® Xeon® 2.6 GHz 8M L3 cache			
CPU count	1	2	2	2
CPU cores	4	4	4	8
Memory (GB) DDR3 1333 MHz	32	32	40	44
Disk throughput	> 500 MB/s (sequential) [un-cached]			
Storage	300 GB Enterprise class			
Ethernet	> 80 MB/s			

FRONT MACHINE	SMALL	MEDIUM	LARGE	ENTERPRISE
Processor	Intel® Xeon® 2.6 GHz 8M L3 cache			
CPU count	1	2	2	2
CPU cores	4	4	4	8
Memory (GB) DDR3 1333 MHz	24	32	32	32
Disk throughput	> 500 MB/s (sequential) [noncached]			
Storage	*300 GB Enterprise class for base installation			
Ethernet	> 80 MB/s			



Specifications - *Trellis*[™] Intelligence Engine

Operating System:

- Ubuntu 14.04 LTS
- Red Hat Enterprise Linux version 7.2

Trellis Intelligence Engine can be installed on:

- Physical Hardware
- HyperV
- ESX

Machine Specifications:

	DATA POINTS/MIN		
	10,000	50,000	
Processor	Intel® Xeon® 2.4 Ghz or higher		
CPU Cores	2	2	
Memory (GB) DDR3 1333 MHz	2	5	
Disk Throughput	500 MB/s (sequential) [noncached]		
Ethernet	> 50 MB/s		
Storage (w/o local backups)	25 GB	50GB	

Supported Protocols:

- SNMP v1, v2, v3
- Modbus
- BACnet
- Velocity
- Redfish
- OPC-UA

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