



Trellis Real-time Infrastructure Optimization Platform from Emerson Network Power delivers groundbreaking data center infrastructure management (DCIM)

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At a glance

IBM® is marketing and reselling Emerson Network Power's Trellis platform, with software capabilities to optimize the management of data center resources.

Emerson Trellis Real-time Infrastructure Optimization Platform features and benefits include the following:

- Comprehensive visibility delivers meaningful views to IT and facilities, making it easier to collaborate, plan and control changes, proactively prevent down time, discover hidden capacity, and calculate actual data center costs.
- Holistic monitoring and alarm management visually presents asset information to help you understand the current likely impact of changes to operations, power consumption, and cooling demands.
- Real-time event processing detects user-defined events and optionally automates device management, enabling immediate insight and remedy to help increase data center management efficiency and proactively forestall outages.

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

Overview

The Trellis Real-time Infrastructure Optimization Platform (Trellis platform) is a real-time optimization platform that enables the unified management of your data center's IT and facilities infrastructure. It delivers excellent insight and action to help achieve optimal data center performance. The Trellis platform gathers vast amounts of real-time information from IT and facility devices and consolidates it into a simple, meaningful view. It enables your data center to operate more cost effectively and more efficiently.

The Trellis platform gathers and aggregates millions of data points from distributed environments and heterogeneous equipment (such as IT and facilities) in real time, applies rules to discern previously undetected patterns and trends, and ultimately presents this information in context.

The Trellis platform gives you comprehensive insight into data center facilities loading and the impact that changes to IT will produce. The Trellis platform monitors the data center, automates controls, and helps your staff make the right decisions.

The Trellis platform helps those responsible for the data center at various levels obtain better visibility and control over their critical infrastructures, inspiring confidence through continuity and control. It helps you receive real information in real time from across various infrastructure components, and maps the interaction between these components.

Key corequisite

The Trellis Real-time Infrastructure Optimization Platform (Trellis platform) software is corequisite with the Avocent Universal Management Gateway 6000, a hardware device. For more information on this hardware or for ordering information, consult with your IBM representative or and authorized IBM Business Partner.

Planned availability date

February 26, 2013

Description

Trellis consists of software-based applications running on a common platform to control data consistency and aggregation. Its corequisite is an intelligent appliance called Universal Management Gateway 6000 that collects and filters telemetry and alerts from connected devices and that enables access and control of equipment if needed. The software applications manage data center physical inventory and enable intelligence and insight into the operation of power and cooling systems. They also assess the consumption of energy by application or virtual machine.

This framework of software and hardware systems enables Trellis to collect massive amounts of data, filter and aggregate that data, and deliver meaningful information to users through Tivoli® system and tools.

Product positioning

The Emerson Trellis platform is a real-time data center infrastructure management (DCIM) solution. It gathers vast amounts of real-time information from IT and facility devices and consolidates it into a simple, meaningful view, enabling the data center to operate more cost effectively and more efficiently.

Program number

Program number	VRM	Program name
5725-K28	2.0	Trellis Real-time Infrastructure Optimization Platform

Offering Information

Product information is available via the Offering Information website

<http://www.ibm.com/common/ssi>

Also, visit the Passport Advantage® website

<http://www.ibm.com/software/passportadvantage>

Publications

No publications are provided by IBM for this program.

Technical information

Specified operating environment

Hardware requirements

Two server class machines are required for deployment of the Trellis platform software. In this minimum deployment, one machine hosts the front-end application servers and the second machine hosts the database servers and back-end services such as authentication.

The following are the current minimum hardware requirements to install and operate the Trellis platform:

- Trellis platform front machine:
 - CPU: Quad-Core Intel Xeon™ , 2.6 GHz, 8 MB L3 cache
 - Memory: 24 GB, DDR3 ECC SDRAM memory 1333 MHz
 - Storage: Two 300 GB SATA, 10,000 rpm hard drive with 16 MB DataBurst Cache
- Trellis platform back machine:
 - CPU: Quad-Core Intel Xeon , 2.6 GHz, 8 MB L3 cache
 - Memory: 24 GB, DDR3 ECC SDRAM memory 1333 MHz
 - Storage: Two 300 GB SATA, 10,000 rpm hard drive with 16 MB DataBurst Cache

Note: The Trellis platform installers are delivered on DVDs that may be extracted directly to the servers or to a shared network. Because the installation files on each DVD must first be copied to each of the previously mentioned front and back machines, the DVD or USB drive must be accessible from both the front and back machines.

Software requirements

A Microsoft™ Windows-based client workstation, adhering to the following operating systems browser requirements, is needed for the Avocent Professional Services representative to perform the Trellis platform installation. The Trellis platform front- and back-end servers must be accessible from this workstation.

The recommended minimum screen resolution is 1280 x 1024.

Supported operating systems:

- Microsoft Windows™ XP
- Windows 7
- Windows 2008 R2 SP1 Enterprise 64-bit
- Red Hat Enterprise Linux™ operating system V5.1, or later, 64-bit (server)

Supported browser: Microsoft Internet Explorer 8

Note: Version 2.0 of Trellis will also support:

- Mozilla Firefox 16
- Google Chrome 2

Required extension: Adobe™ Flash Player v10.1+

Software clients:

A client PC with an installed web browser can be used to access the front server UI. With privileges, you can access and administer the servers, managed appliances and target devices.

Target devices:

Target devices encompass a wide range of data center components, such as servers and routers. An administrator can manage components through the software.

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a README file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Planning information

Packaging

The program in this announcement will be orderable through IBM. The software order will be sent to Emerson for fulfillment to the customer.

Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

Ordering information

This product is only available via Passport Advantage. It is not available as shrinkwrap.

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Charge metric

Emerson Network Power Trellis Real-time Infrastructure Optimization Platform licensing metric definitions and pricing example:

Licensing metric definitions

Rack

Rack is a unit of measure by which the program can be licensed. A rack is defined as a piece of hardware that is designed and built for the explicit purpose of containing IT equipment including but not limited to servers, storage, switches, power distribution units, uninterruptible power supplies, management consoles, and cabling. Licensee must obtain entitlements for the total number of racks accessed or managed by the program.

Standby or backup systems

For programs running or resident on backup machines, IBM defines three types of situations: cold, warm and hot. In cold and warm situations, a separate entitlement for the copy on the backup machine is normally not required and typically no additional charge applies. In a hot backup situation, the customer needs to acquire other license or entitlements sufficient for that server. All programs running in backup mode must be solely under the customer's control, even if running at another enterprise's location.

As a practice, the following are definitions and allowable actions concerning the copy of the program used for backup purposes:

Cold: A copy of the program may reside, for backup purposes, on a machine as long as the program is not started. There is no additional charge for this copy.

Warm: A copy of the program may reside for backup purposes on a machine and is started, but is idling, and is not doing any work of any kind. There is no additional charge for this copy.

Hot: A copy of the program may reside for backup purposes on a machine is started, and is doing work. The customer must acquire a license or an entitlement for this copy and there will generally be an additional charge.

Doing work includes, for example, production, development, program maintenance, and testing. It also could include other activities, such as mirroring of transactions; updating of files; synchronization of programs, data or other resources (for example, active linking with another machine, program, database, or other resource); or any activity or configurations that would allow an active hot switch or other synchronized switch over between programs, databases, or other resources to occur.

In the case of a program or system configuration that is designed to support a high-availability environment by using various techniques (for example, duplexing; mirroring of files or transactions maintaining a heartbeat; and active linking with another machine, program, database, or other resource), the program is considered to be doing work in the hot situation and a license or entitlement must be purchased.

Emerson Trellis Realtime Infrastructure Optimization Platform

The Emerson Trellis Realtime Infrastructure Optimization Platform is a stand-alone vendor solution that does not need to be used in combination with other Tivoli products.

This product is licensed per rack. A data center rack is standard data center equipment designed and built to contain IT equipment including but not limited to

servers, storage, switches, power distribution units, uninterruptible power supplies, management consoles, and cabling.

Pricing example

A data center is managed by four data center administrators, one data center manager, and one IT director; it has 200 racks. The following licensing scheme applies:

Pricing metric	Quantity in customer environment	License entitlements required
Rack	200	200

Resource Value Unit (RVU)

RVU is a unit of measure by which the program can be licensed. RVU Proofs of Entitlement are based on the number of units of a specific resource used or managed by the program. Licensee must obtain sufficient entitlements for the number of RVUs required for licensee's environment for the specific resources as specified in the program specific table. RVU entitlements are specific to the program and the type of resource and may not be exchanged, interchanged, or aggregated with RVU entitlements of another program or resource. Refer to the program specific RVU table.

Notes :

- Some programs may require licenses for the resources available to and the resources being managed by the program. In that case, the following applies. In addition to the entitlements required for the resources used by the program directly, licensee must obtain entitlements for this program sufficient to cover the resources managed by the program.
- Some programs may be licensed on a managed basis only. In that case, the following applies. Instead of the entitlements required for the resources used by the program directly, licensee must obtain entitlements for this program sufficient to cover the resources managed by the program.

Ordering information for Passport Advantage

The quantity to be specified for the following Passport Advantage part number in the following table is per Rack.

To order for Passport Advantage , specify the desired part number and quantity.

The software order will be processed in Passport Advantage , and then sent to Emerson for fulfillment to the customer.

Part number	Description
D0Y76LL	Trellis real-time infrastructure optimization platform per Rack 3rd party offer

Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

This product is only available via Passport Advantage . It is not available as shrinkwrap.

Licensing

Supplier's license terms apply.

Limited warranty

Not warranted by IBM . Warranty, if any, provided by supplier.

Volume orders

Not applicable

Educational allowance

No. Special education prices are available through Passport Advantage .

Statement of good security practices

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Prices

Passport Advantage

For Passport Advantage information and charges, contact your IBM representative or authorized IBM Business Partner for Software Value Plus. Additional information is also available at

<http://www.ibm.com/software/passportadvantage>

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