



trellis™



# Развитие платформы Trellis™



**Trellis R1**  
2012



**Trellis R2**  
2013

**Trellis R3**  
2013



**Trellis R4**  
TBD



## **Inventory Manager**

*Document, View and Manage Data Center Room and Rack Layout*



## **Change Planner**

*Plan, Understand and Schedule Equipment Adds and Changes*



## **Site Manager**

*Manage and Monitor Devices and Environmental Conditions*



## **Energy Insight**

*PUE and Energy Consumption Dashboard*



## **Power System Manager**

*Track and Understand Power Dependencies  
Respond Quickly to Events*



## **Mobile**

*Monitor Data Center Operations from Mobile  
Devices*



## **Virtual Insight**

*Identify and Track Virtual Machines and Physical Dependencies*



## **Process Manager**

*Document and Execute Workflow*



## **Cooling System Manager**

*Recognize Available and Stranded Cooling Capacity  
Respond Quickly to Events*



## **Scenario Planner**

*Evaluate and Compare Deployment Scenarios*



**EMERSON™**  
Network Power

## NMS

### IT Management & Monitoring

Мониторинг производительности и работоспособности сетевой инфраструктуры

Мониторинг вычислительной инфраструктуры – физические и виртуальные сервера, системы хранения данных

Мониторинг системных и бизнес приложений

Мониторинг виртуальных сред и “облаков”

## DCIM Trellis

Inventory Management – учёт активов ЦОДа и их конфигураций

Change Planner - Управление изменениями

Virtual Insight – интеграция с виртуальными средами

Workflow - Управление процессами в ЦОД (регламенты)

Access & Control – обеспечение удаленного доступа и управления ИТ-инфраструктурой

Cable Management – кабельный журнал в ЦОД, учёт соединений

Site Manager – мониторинг физической инфраструктуры

Отчёты по различным физическим параметрам в ЦОД

Mobile – интеграция с мобильными приложениями в ЦОД

## IT Service Management

Service Desk; Asset & Lifecycle Management, CMDB, Incident Management

# ***Manage Data Center Infrastructure in Real-Time***

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Gather millions of data points in real-time; view only data that is most critical to your business and execute several actions simultaneously

**Speed**

Centralize monitoring, planning, control and automation in a single system

**Simplicity**

Management capabilities for small, medium and enterprise environments

**Scalability**

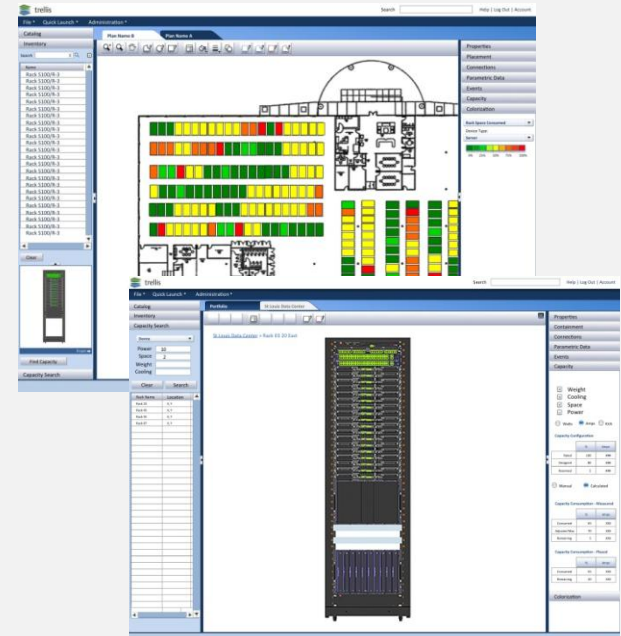
# Trellis™ Inventory Manager - R1

Inventory Mgr

Change Planner

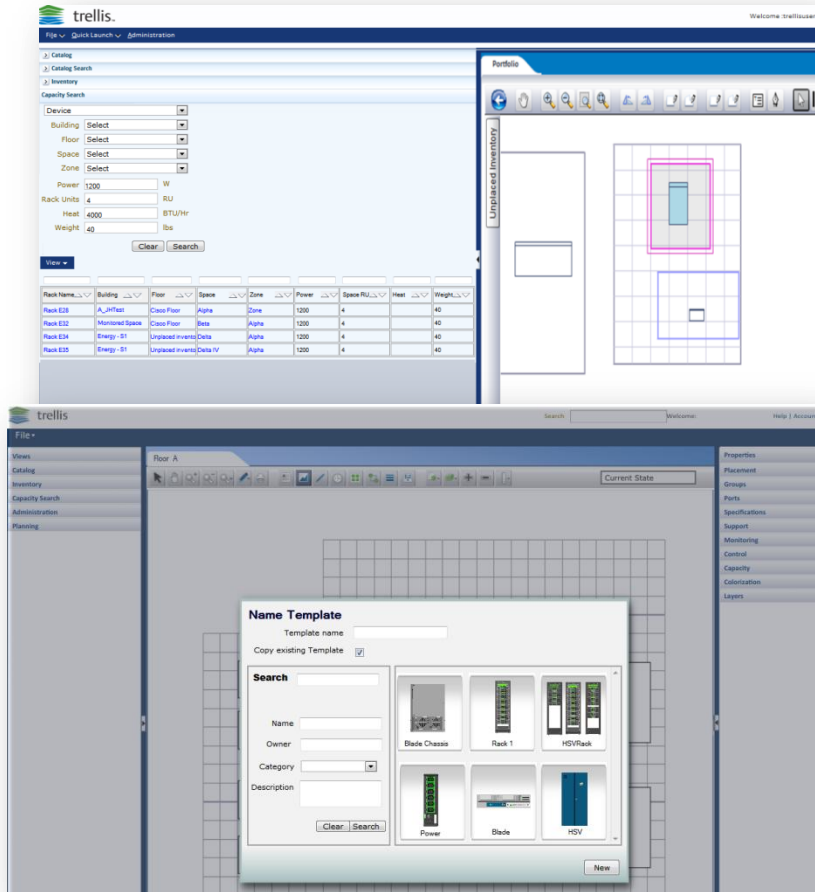
## Trellis Inventory Manager

- Model the entire data center physical environment
- Manage relationships between IT/facilities assets and resources
- Data-driven architecture, auto-generated graphics
- Comprehensive reporting and analytics engine



**Create a single repository for all asset information**

# Inventory Manager



- End-to-end view of infrastructure configuration (power and network)
- Additional capacity information provided during searches

Increased detail for better decision making

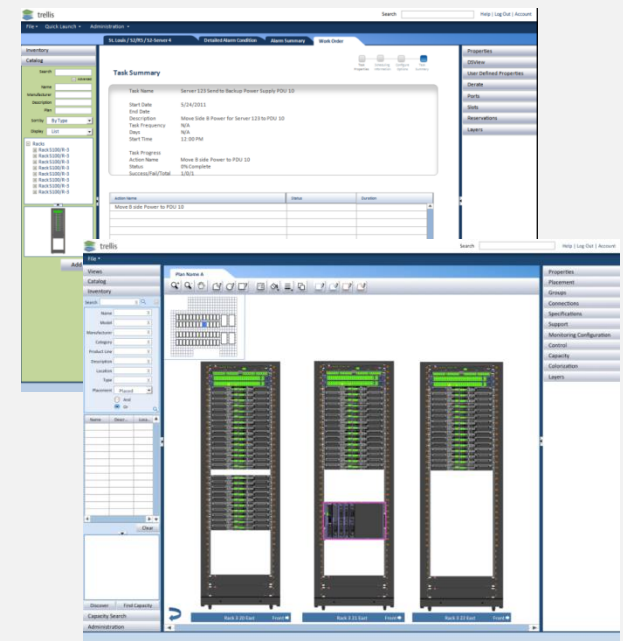
# Trellis™ Change Planner – R1

Inventory Mgr

Change Planner

## Trellis Change Planner

- Standardize data center processes and enforce policies with assignment and tracking of tasks
- Maintain an audit trail of changes to the infrastructure
- Reduce errors and rework with intelligent asset placement capabilities
- Reduce risks associated with changes by performing detailed impact analysis



*Begin proactive collaboration between IT and facilities management*

# Trellis™ Site Manager – R1

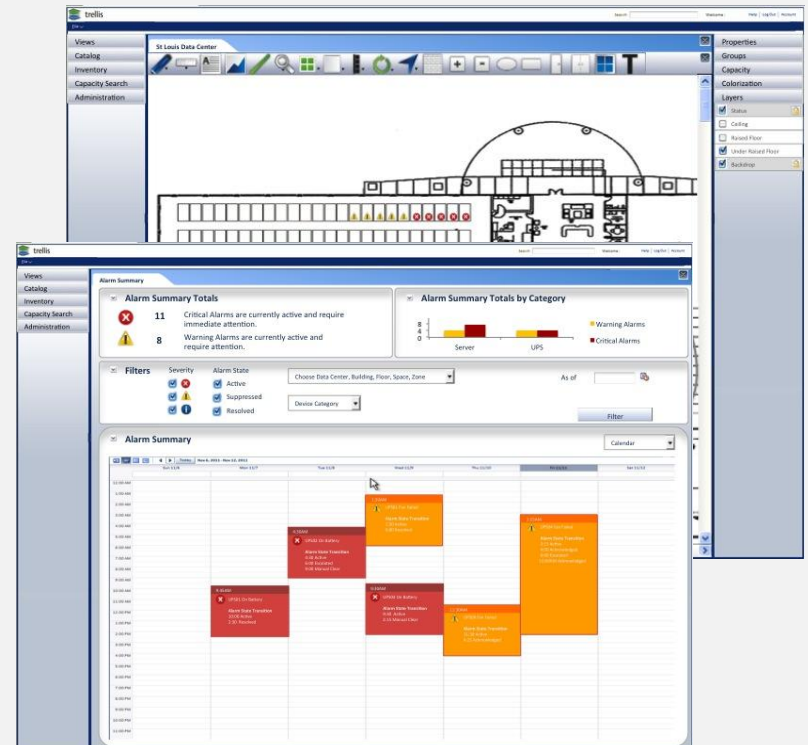
Site Manager

Energy Insight

Power System Mgr

## Trellis Site Manager

- Configure and manage device level thresholds
- View facility layout and asset utilization
- Manage alarm notifications via SMS and email
- Monitor the data centers environmental conditions



*Reduce time in identifying and resolving critical device issues within the data center*



# Trellis™ Energy Insight – R1

Site Manager

Energy Insight

Power System Mgr

## Trellis Energy Insight

- Calculate real time power consumption
- Identify utility cost at the system and unit level
- View energy metrics for PUE and DCiE



*Determine current and future energy needs based on historical data*

# Trellis™ Power System Mgr – R2

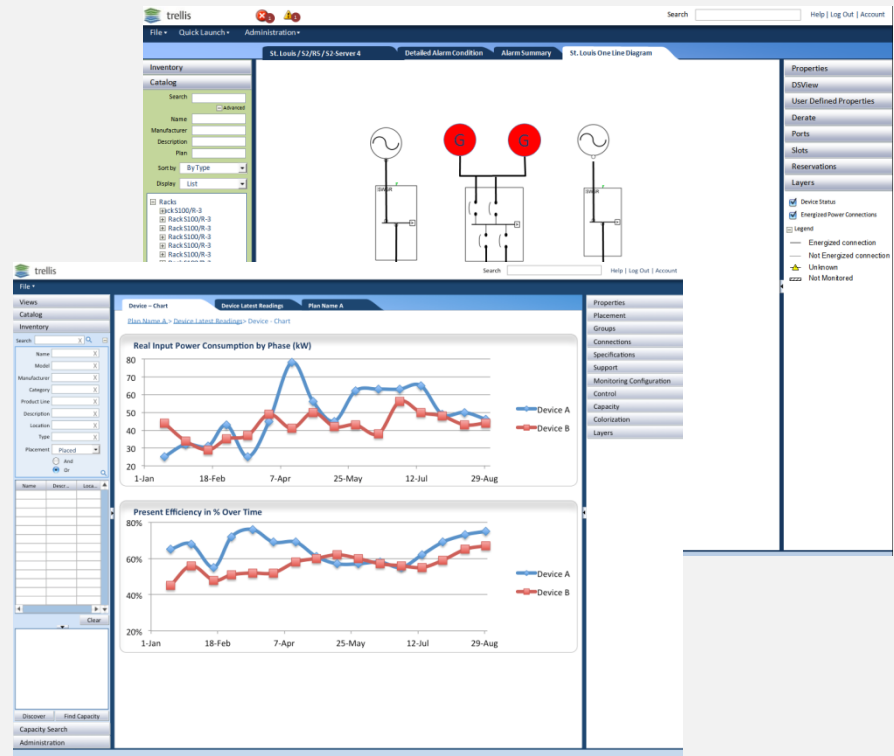
Site Manager

Energy Insight

Power System Mgr

## Trellis Power System Manager

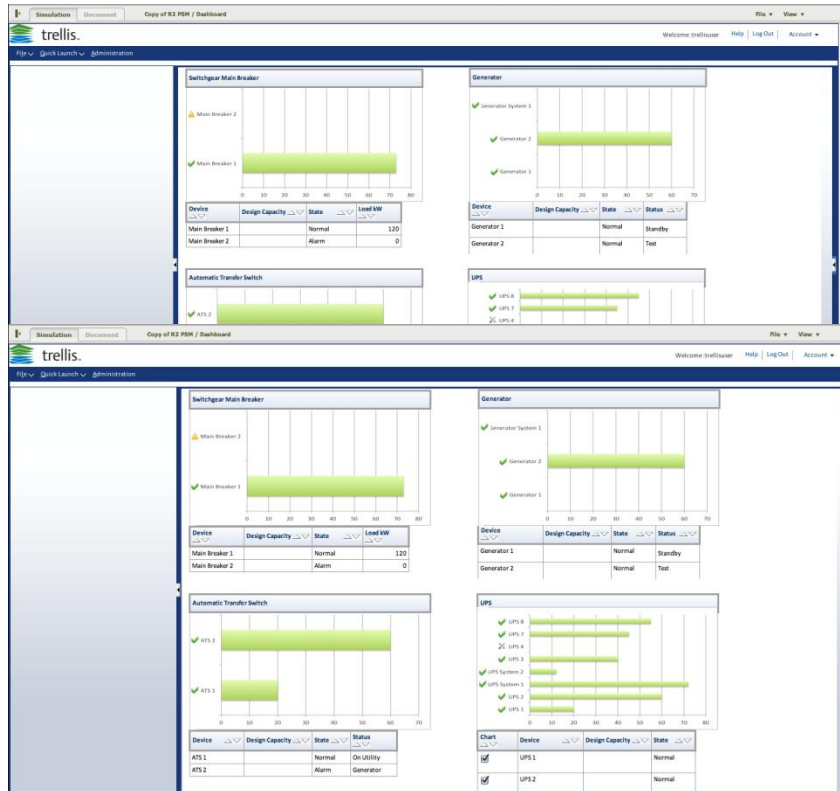
- Expose and manage power system dependencies
- View one-line diagrams of all data center devices
- Assess risk through identifying relationships between IT equipment and power system devices



*Get a dynamic view of the operating state of power distribution within the data center*



# Power System Manager



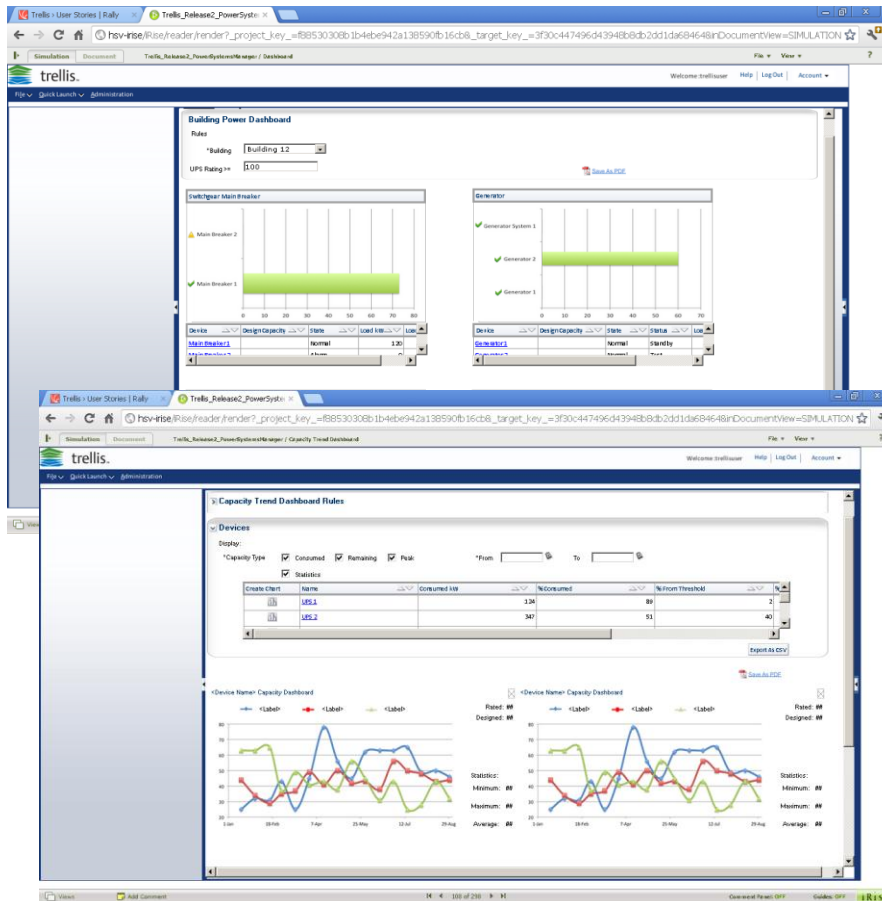
- Documents and displays, in a single view, how each device in the data center connects to the power system
- Improves response time to alarms related to Switchgear through improved visibility of the contents
- Provides an operational view of the power system by graphically displaying power flow and distinguishing connections as active, energized, or de-energized
- Assess the impact and risk of an outage or maintenance activity by identifying dependent devices

Create and visualize power connections from the utility entrance down to Rack based power



# Power System Manager (cont)

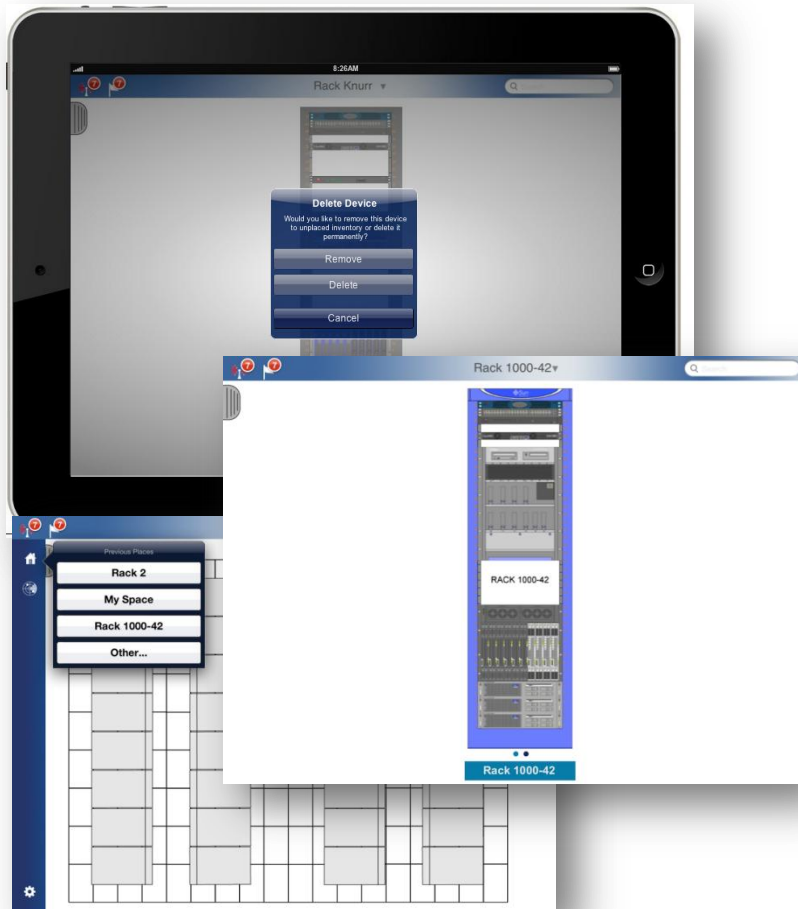
- Enhances the understanding of remaining capacity and headroom through visualization of real-time and historical utilization, repetitive cycles, and periodic spikes or peaks
- Includes an extensible connection algorithm providing vendor neutral device support
- Quickly identifies the owner and contact information of a dependent device if an issue should arise



View a dashboard displaying the real-time capacity and graphical trends of many devices



# Mobile – Data Center Operations



- Innovative image recognition technology and bar code scanning capabilities
- Update information in real-time or offline
- Search for racks and devices
- View Trellis platform reports in real-time
- View device capacities & port
- Place, remove and move devices
- Update and view power connections

Trellis mobile suite extends the real-time capabilities of the Trellis platform onto mobile

Дякуємо за увагу!