

Nlyte Energy Optimizer (NEO)

Mitigate, Measure, Maximize

PRODUCT OVERVIEW

In today's on-demand world, an enterprise needs the visibility and agility to react quickly to changes in the state of its data centers. The health of a data center's infrastructure is paramount to an IT organization's mission to deliver high quality services on time and cost effectively.

Our comprehensive monitoring covers all major protocols and devices as well as reporting. In addition, we have advanced monitoring and alarming capabilities including up-to-the-minute event management and the associated analytics required for proactively managing data center infrastructure.

Nlyte Energy Optimizer (NEO) can ensure IT service continuity, driving real-time analytics into ITSM ecosystems. The breadth and depth of our offerings provides unmatched visibility, insight and solutions into all aspects of your monitoring and alarming needs.

Mitigate:

- Proactively anticipate & analyze at-risk scenarios to steer you clear of failures
- Quickly identify unused and under-used power infrastructure to reduce your costs
- Avert bottlenecks with global visibility and metrics into worldwide operations

Measure:

- Produce actionable dashboards and alerts to yield actionable insight
- Provide "What-If" simulations and resiliency analysis to further your business intelligence
- Track real-time data and feed real-time analytics into Big Data and 3rd party applications

Maximize:

- Maximize your uptime, capacity and assets via simulated failures (so you can plan ahead)
- Maximize your agility to act with up-to-the-minute updates and alerts
- Maximize your reach with the most industry-leading pre-built integrations

Nlyte Energy Optimizer (NEO) Use Cases

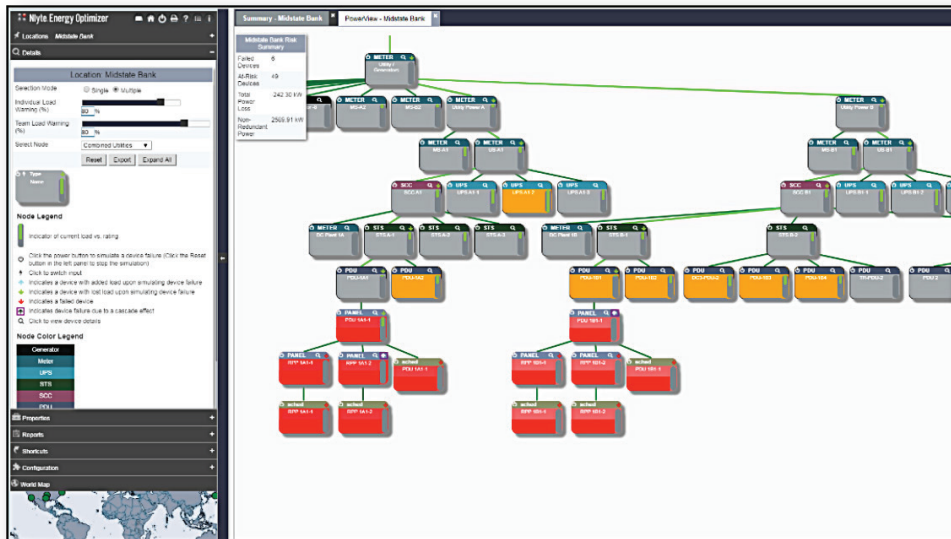
-  Power Failure Simulation and Prevention
-  Energy Capacity Planning
-  Energy Optimization & Cost Reduction
-  Improve Labor Savings
-  Branch Circuit Monitoring
-  Co-location Operations
-  Bi-Direction Integration with ITSM
-  Virtual PDU
-  Enhanced Busmains & Tapoffs
-  Alarm Workflow

Benefits

- Simulate power failures to ensure redundancy and harden critical energy systems
- Gain greater insight and ability to manage energy needs today and tomorrow
- Improve control of energy and cooling resources to drive down costs
- Enable facility and IT personnel to collaborate more easily and do their jobs more quickly
- Reduce energy costs while tracking key metrics
- Enables co-location providers to gain visibility on tenants usage of resources
- Provide power and environmental information to ITSM systems for more accurate operations and costing
- Enable software to eliminate the need for expensive intelligent PDUs
- Provides a feature-rich view into current and historical power use
- Integrates alarms originating and tracked in Nlyte Energy Optimizer (NEO) into full workflow process-including full ITSM integration

Nlyte Energy Optimizer (NEO)

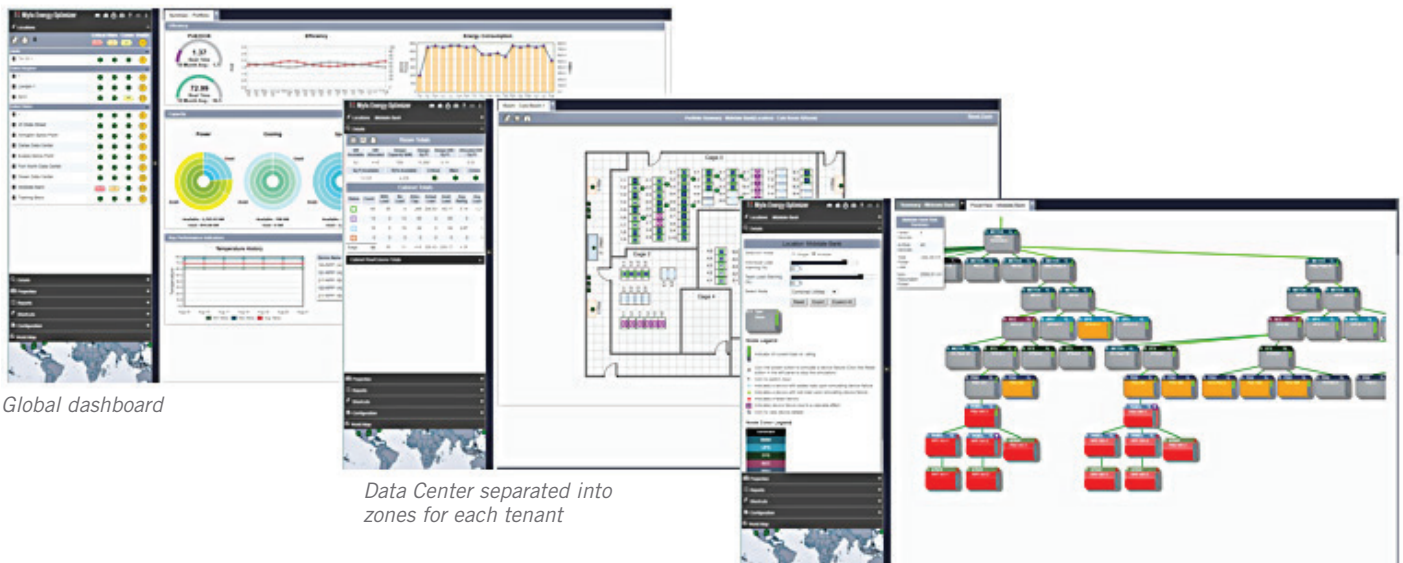
Power Failure Simulation & Prevention



KEY BENEFITS

- Analyze potential failure points
- Proactively prevent energy issues before they happen
- Ensure redundancy and increase uptime
- Identify unused power infrastructure

Energy Capacity Planning



Global dashboard

Data Center separated into zones for each tenant

Detailed power system view

- View both real-time performance and trending over time
- Plan your future energy needs more accurately
- Reduces time required to perform energy capacity planning

Nlyte Energy Optimizer (NEO)

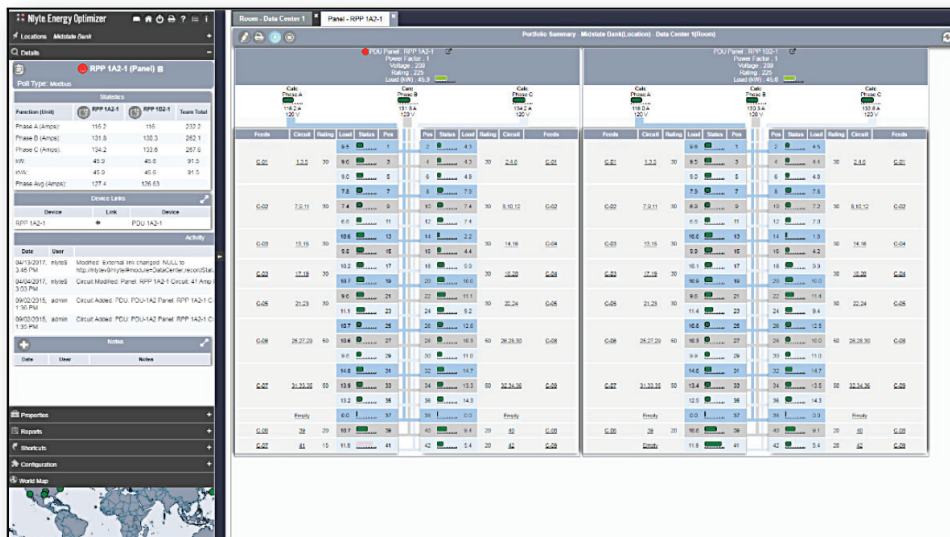
Energy Optimization & Cost Reduction



KEY BENEFITS

- Eliminating inefficient use of resources
- Confidently raise the temperature of data center ensuring no creation of hotspots
- Postpone or even eliminate new data center investments

Branch Circuit Monitoring

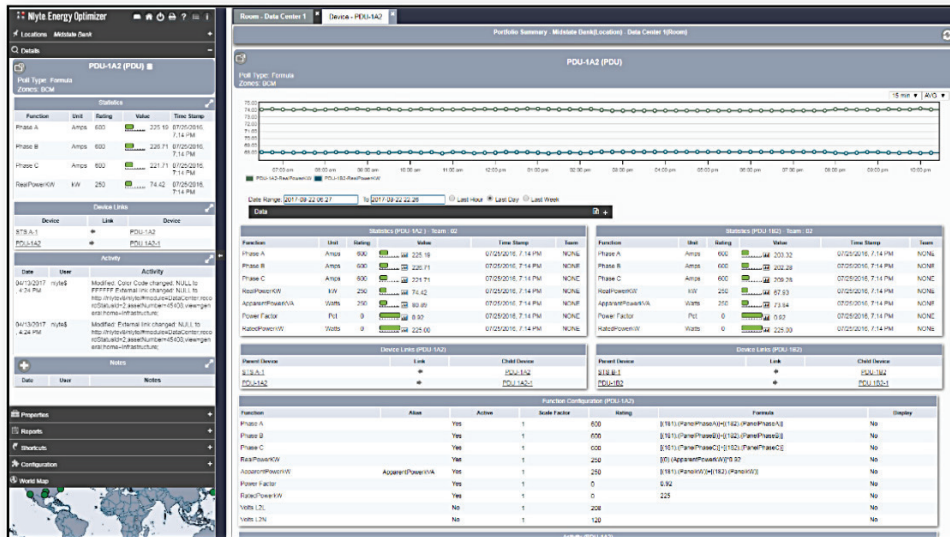


KEY BENEFITS

- Improves energy efficiency and capacity planning
- Make it easy to calculate carbon emissions
- Eases phase and load balancing
- Provides building operators up to date panel schedules eliminating the guess work in the Data Center

Nlyte Energy Optimizer (NEO)

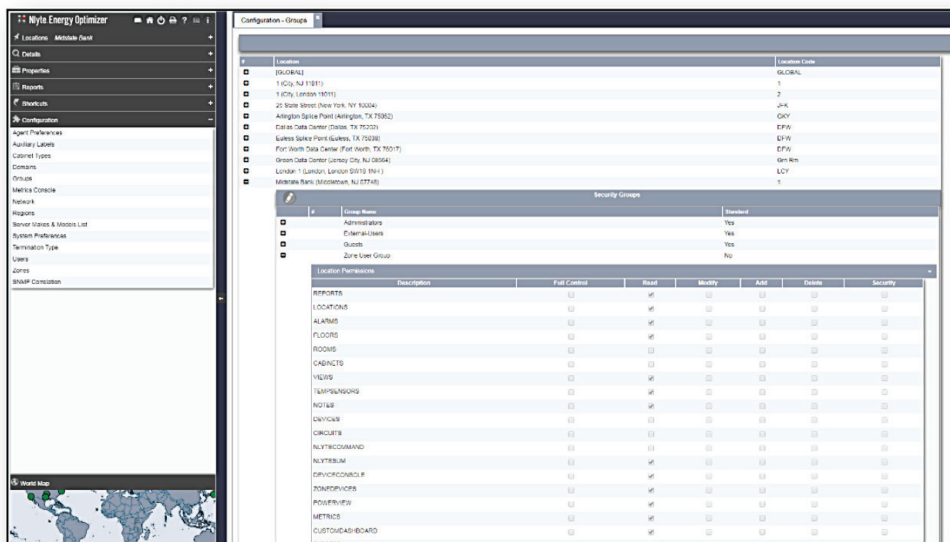
Virtual PDU



KEY BENEFITS

- Increase accuracy of changes occurring on the data center floor
- Measure true variable cost of assets and true cost of service
- Increase insight and value provided by ITSM solutions
- Better control of what's happening in the data center
- Increase agility in responding to the needs of the business

Improved Labor Savings

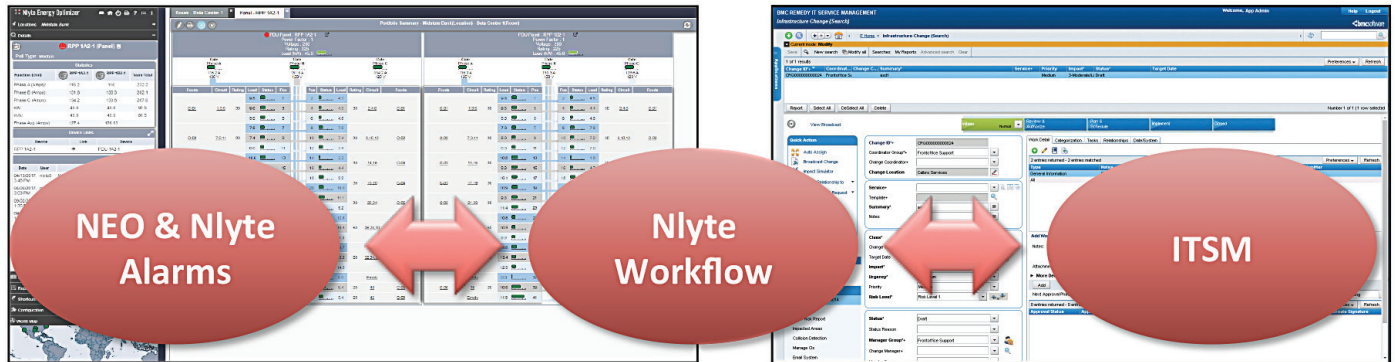


KEY BENEFITS

- Saves time of both facilities and IT personnel
- Reduces personnel costs to maintain data center
- Improves insight

Nlyte Energy Optimizer (NEO)

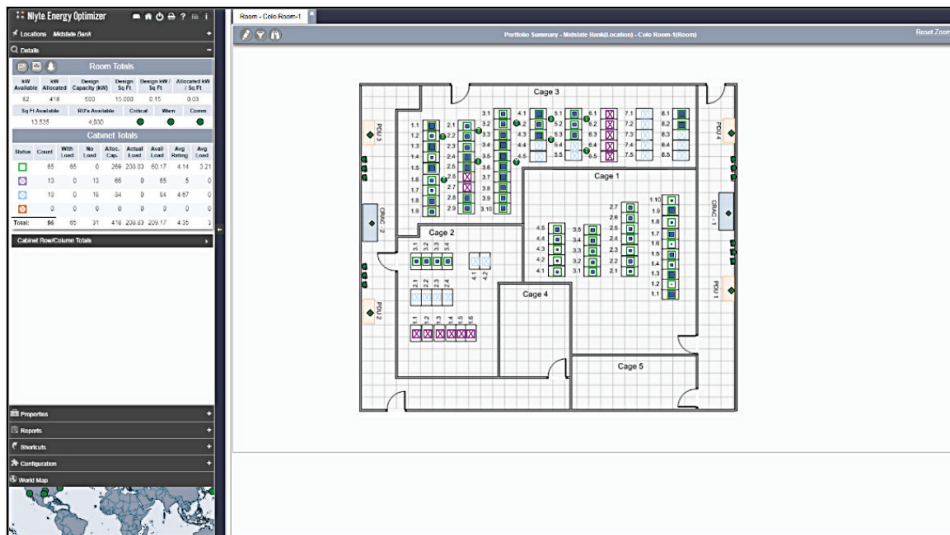
Bi-direction integration with ITSM



KEY BENEFITS

- Increase accuracy of changes occurring on the data center floor
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- Better control of what's happening in the data center
- Increase agility in responding to the needs of the business

Colocation Operations

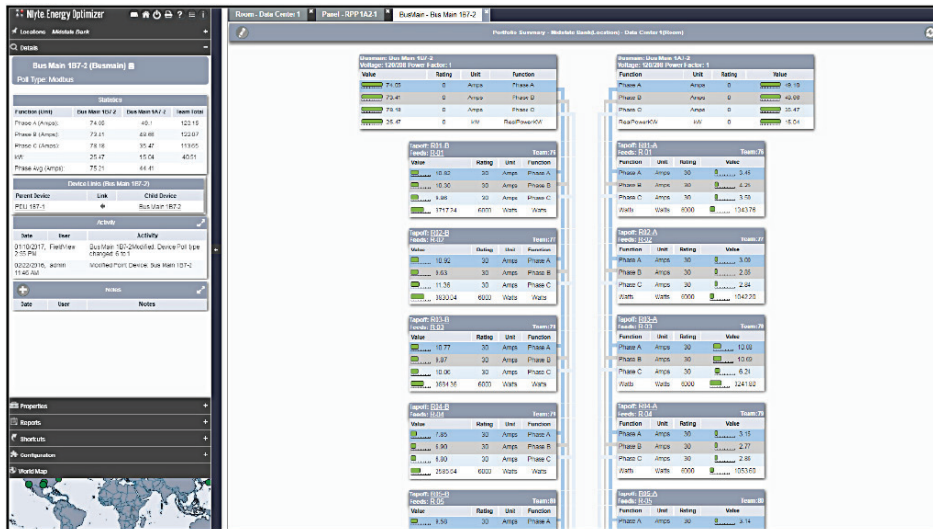


KEY BENEFITS

- Identify more sellable space
- Reduce costs by optimizing temperature and balancing load
- Prove SLAs and generate alerts whenever nearing power or space limits
- Give tenants improved visibility on resources they are using and reporting that allows them to bill-back inside their organizations

Nlyte Energy Optimizer (NEO)

Enhanced Busmains & Tapoffs

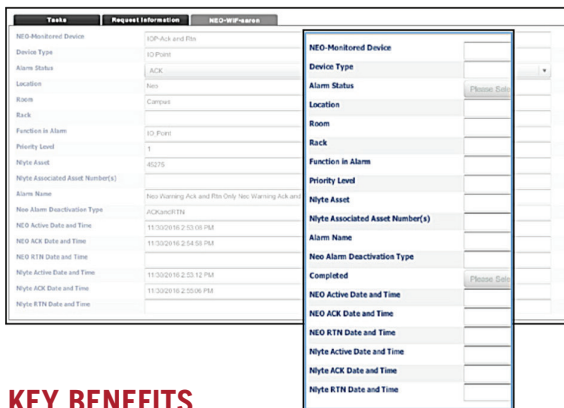


Busmain Details page

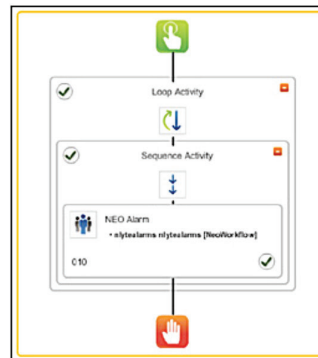
KEY BENEFITS

- Provide a feature-rich view in to current and historical power use in this part of the power chain from the device feeding the busmain down to each connected tapoff and ultimately the cabinets, strips and assets
- Provide an easy method of tracking cabinets and devices fed by each tapoff
- Quickly view devices and assets potentially affected by power loss

Alarm Workflow



The screenshot shows a form for configuring an alarm workflow. It includes sections for 'Task', 'Request Information', and 'NEO Workflow'. The 'Task' section lists various alarm types and their associated actions. The 'Request Information' section contains fields for device type, location, room, rack, and function. The 'NEO Workflow' section includes fields for alarm name, priority level, and associated asset numbers.



Two off-the-shelf Nlyte Workflow processes can be used as-is or enhanced to meet specific needs

KEY BENEFITS

- Integrate alarms originating and tracked in Nlyte Energy Optimizer (NEO) into a full workflow process- including full ITSM integration
- Offer a complete end-to-end alarm management solution
- Easily configured during the installation or upgrade process
- Alarm management and escalation can be quickly implemented in a new or existing
- Nlyte Workflow solution

FOR MORE INFORMATION

- Contact Us: info@nlyte.com
- Visit Us: www.nlyte.com

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About Nlyte

Founded in 2004, Nlyte Software is recognized as the industry leading data center infrastructure management (DCIM) solution provider. Nlyte's DCIM provides unmatched functionality that supports all data center processes across the entire "dock to decom" lifecycle. With a 98% customer retention rate, Nlyte's DCIM solution is used by many of the world's largest and most sophisticated data centers, as well as many small and medium sized organizations. Customers can quickly deploy the Nlyte DCIM solution and begin to immediately enjoy reduced costs and increased efficiency across all data center processes. For more information, visit www.nlyte.com or follow @nlyte on Twitter.

Nlyte Asset Optimizer

Your Single Source of Truth

Automate and Integrate Your Physical Compute Infrastructure

Nlyte Asset Optimizer (NAO) is key to any Data Center Infrastructure Management (DCIM) solution. NAO is an open and scalable platform that provides automation and efficiency to asset lifecycle management, capacity planning, audit, and compliance tracking. NAO easily manages assets from receiving dock to decommissioning, globally or rack by rack. It simplifies space and energy planning and easily connects to ITSM and other BI applications.

Effective oversight and management of IT assets, resources, and processes is indispensable. NAO automates DCIM workflows and IT integrations. Many of the world's largest and most sophisticated data centers rely on Nlyte to manage all of their existing data center processes, resources, assets and interrelationships. As a result, they become more agile, reduce costs and operate more efficiently. Ultimately, Nlyte empowers CIO's and CTO's to turn their data centers from cost bearers into centers of excellence.

It never ceases to surprise me that there are major data centers in operation today that don't have a DCIM tool like Nlyte. With Nlyte and its advanced analytic capabilities, we have been able to gain control over our data centers. The ability to view, model and predict our data center power, cooling and space requirements in near real-time enables us to make the most effective use of our distributed estate.

Simon Brickett
*Head of Data Center Services,
Computacenter*



Asset Lifecycle Management

Know what you have where to optimize end-to-end asset management



Audit & Compliance

Secure direct support for audit, regulatory and fiscal compliance



Capacity Planning

Optimize the use of data center assets, space and energy



Change Management Connectors

Centralize workflow process management and communication with BMC, ServiceNow, HPE and CA



CMDB Connectors

Synchronize configuration item information via BMC, ServiceNow & HPE



Cost Savings & ROI

Quantify and justify the cost associated with moving, adding or changing data center equipment



Migrations & Consolidations

Reduces the cost, time and risk of migrations and consolidations



Operational Efficiency

Optimize resources and personnel with measurable, repeatable intelligent processes



Tech Refresh

Facilitate, simplify and accelerate tech refresh process by automating manual tasks

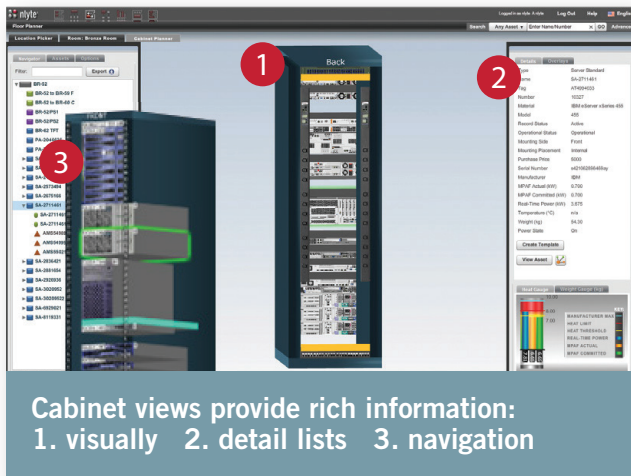


Virtualization Connectors

Link virtualization layer to physical and logical layer with hypervisor connector for VMware, Microsoft & Citrix

Nlyte Asset Optimizer

Asset Lifecycle Management (“Dock to Decomm”)

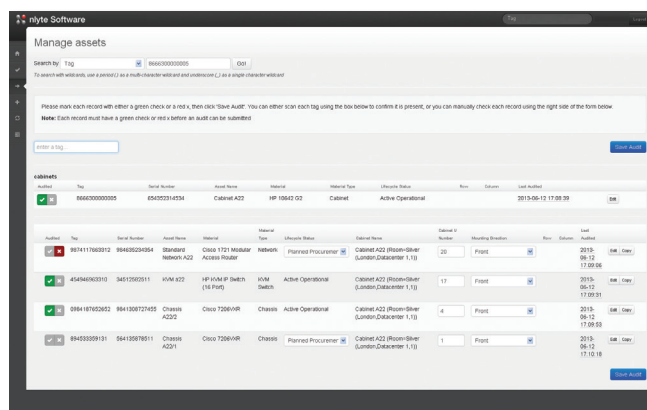


- Real-time reporting on assets, per data center per customer mapping to each lifecycle stage, facilitating warranty renewals and maintenance contracts
- Real-time, accurate asset inventory audits for compliance and yearly maintenance reconciliation
- Ability to report using a charge-back model
- Immediate recognition upon asset arrival at your facility, thus avoiding spending on uninstalled assets

Audit & Compliance



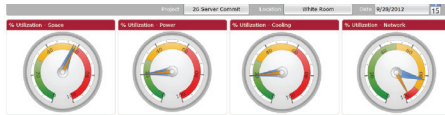
Nlyte Audit helps you manage your assets, confirming them in-situ.



- Secure direct support for audit, regulatory and fiscal compliance
- HIPAA, SOX, Regulation SCI and DCOI compliant
- Capture change to the data center automatically to improve data accuracy and reliability
- Update the Nlyte Content Database asset information in real-time as changes occur
- Improve your financial management of IT assets by getting an accurate reflection of asset inventory

Nlyte Asset Optimizer

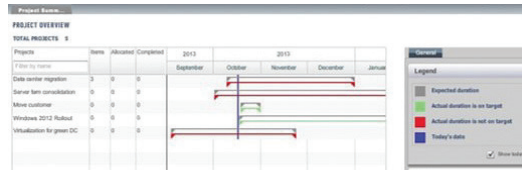
Capacity Planning



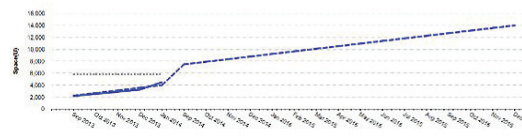
Conduct what-if planning based on capacity indicators before/after

TOTAL REQUIRED U FOR MOVING ASSETS: 10 ☐ REQUIRED
 TOTAL HEAT OF ASSETS MOVING (kW): 4.307 ☐ INCLUDED
 TOTAL WEIGHT OF ASSETS MOVING (kg): 183.12 ☐ INCLUDED
 CABINET USAGE: Available ☐ INCLUDED
 MOUNTING TYPE: Rack 19 inch ☐ INCLUDED
 KVM PROVISION: System DOES NOT require KVM ☐ INCLUDED
 DIVERSE POWER: System DOES require Diverse Power ☐ INCLUDED
 AIRFLOW TYPE: Front To Back ☐ EXCLUDED
 COMPATIBLE NETWORKS: Check IP Address compatibility with Cabinet Network ☐ INCLUDED
 CARD CONNECTIONS: System DOES NOT require patch panel connections ☐ INCLUDED

Detailed allocation criteria for precision in what-if scenarios (industry patented)



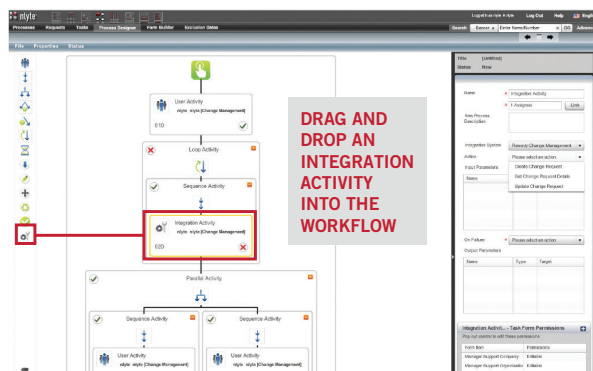
Manage capacity project dependencies and status changes



Plan capacity with trendlines/predictions based on actual usage

- Improved capacity planning and project lifecycle management
- Proactive versus reactive data center management
- Accurate data center lifespan prediction-assess when you need additional capacity (and when you don't)

Change Management Connectors



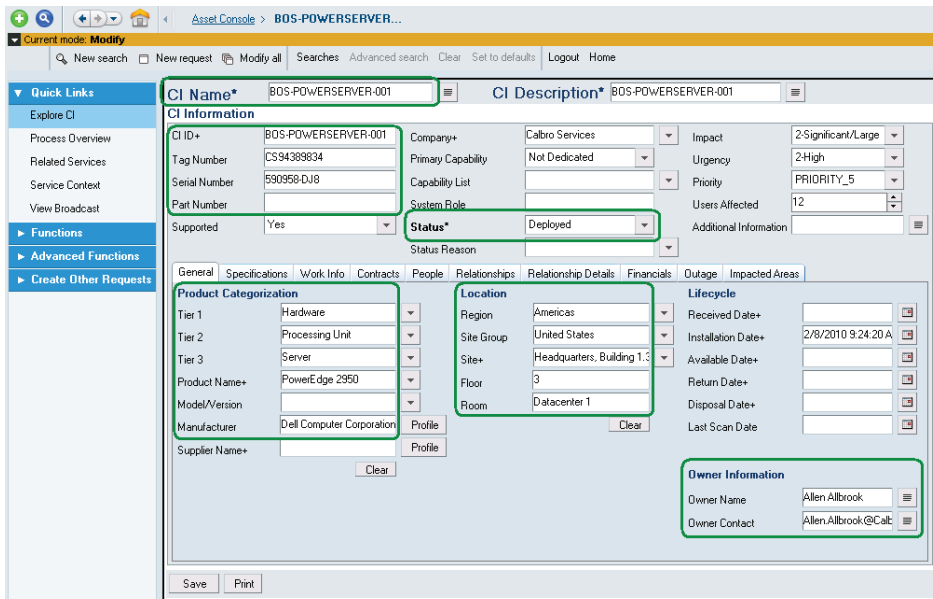
- Save time and effort while lowering risk by coordinating two otherwise disparate change request systems as one
- Enable faster moves, adds and changes by allowing preplanning for asset lifecycle management
- Gain faster root-cause analysis and improved event correlation as asset locations and applications become visible to ITSM

Nlyte Asset Optimizer

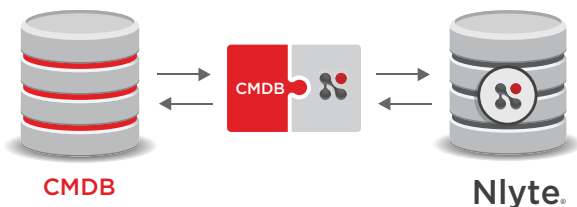
A selling point of Nlyte was the off-the-shelf integration with some products that we already have, and with some that we don't currently have, but are beginning to realize that we need as a large enterprise organization. What Nlyte has done is provide us with the push of 'we need to stop doing it the old way and start doing it a better way'.

Sean Hendershot
 Manager, Data Center Ops,
 IT Infrastructure Division, Canon USA Inc

CMDB Connectors



The screenshot shows the 'Modify' mode for a configuration item (CI) named 'BOS-POWERSERVER-001'. The interface includes a sidebar with 'Quick Links' and 'Functions', and a main form with various fields for CI information, product categorization, location, lifecycle, and owner information. The 'Status' is set to 'Deployed'.



- Enrich your CMDB with more data for truer capacity planning
- Gain a federated view: one version of the truth for configuration item attributes
- Improve compliance by knowing where assets are, who worked on them last and what was done

Nlyte Asset Optimizer

Cost Savings & ROI



Quantify the cost associated with moving, adding or changing data center equipment Cisco deferred a \$20M data center build out and saved 7% on annual overhead



Optimize asset usage for denser more efficient power and space consumption Amadeus increased PUE saving E500 annually



Automate workflow management improving efficiencies inside and across groups Share rich metadata across business groups from a single source of truth Verizon reduced maintenance costs \$1M

- Quantify the cost associated with moving, adding or changing data center equipment
- Obtain a full range of financial and operational metrics to measure and track improvements
- Justify DCIM investment and achieve ROI faster than ever

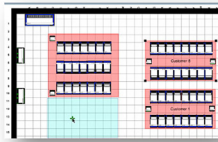
Migrations & Consolidations



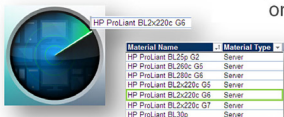
Get asset data out of ad hoc solutions



Verify assets in receiving or @ rack-level



Plan and build physical layout



Auto-reconcile assets in receiving or @ rack-level



Establish Asset Interrelationships, Ownership, Support

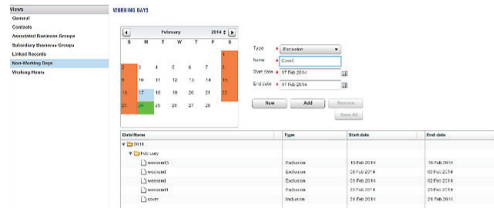
- Reduce the cost, time and risk of migrations and consolidations
- Obtain easy capacity planning required to support moves and changes
- Establish pre-move baseline to measure success
- Visualize and model the entire process from start-to-end

Nlyte Asset Optimizer

Operational Efficiency



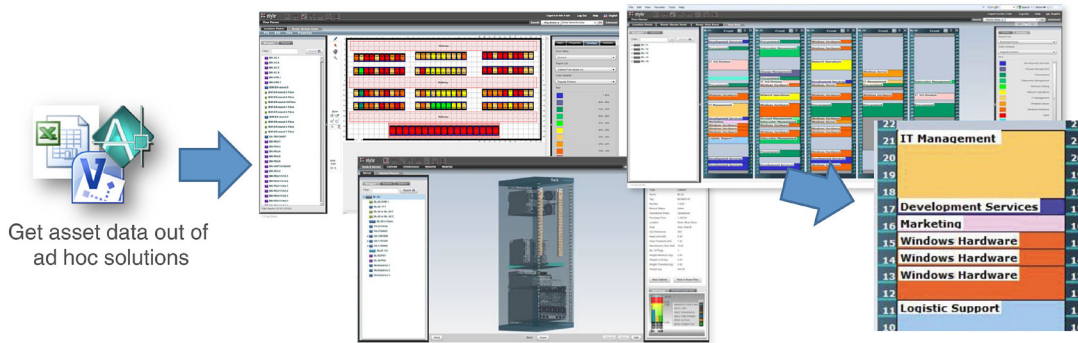
Process Design (drag/drop) allows you to visualize, optimize and integrate workflows



Enhanced resource management based on a group's availability facilitates scheduling & management

- Optimize your resources and personnel with measurable, repeatable intelligent processes
- Make individuals more efficient by providing task focus and progress status
- Support cross-team assignment for tasks shared by multiple teams
- Extend the adoption of ITIL and COBIT into the data center without any additional development or services

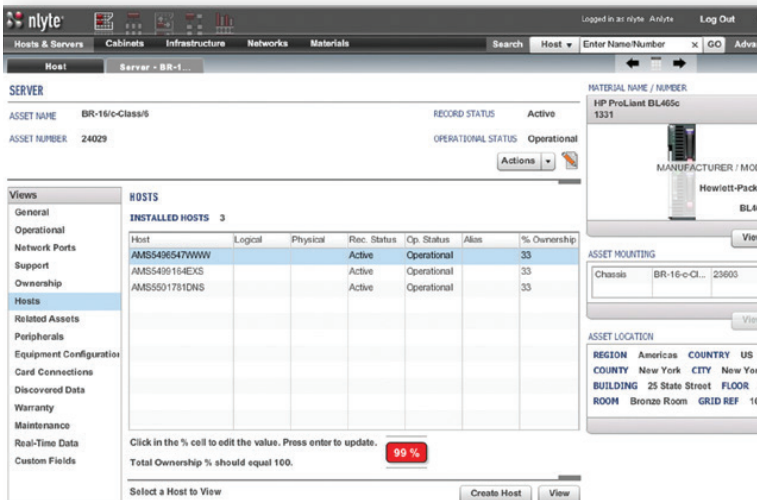
Tech Refresh



- Facilitate tech refresh process by automating manual tasks
- Improve flexibility to move workloads as needed via intelligent asset provisioning and workflow management
- Improve warranty and lease management to avoid paying "overtime"

Nlyte Asset Optimizer

Virtualization Connectors



HOSTS

Host	Logical	Physical	Rec. Status	Op. Status	Alias	% Ownership
AMS496547WWW			Active	Operational		33
AMS496164EXS			Active	Operational		33
AMS5501781DNS			Active	Operational		33

Click in the % cell to edit the value. Press enter to update. **99%**

Total Ownership % should equal 100.

Select a Host to View Create Host View

ASSET MOUNTING

Chassis BR-16-c-CL... 23600 View

ASSET LOCATION

REGION Americas COUNTRY US
 COUNTY New York CITY New York
 BUILDING 25 State Street FLOOR 2
 ROOM Bronze Room GRID REF 101

Visibility between the physical Host and all Guest operating instances in real-time:

- Nlyte host records created for each VM
- Multiple VM hosts on a physical server asset
- Updated automatically by the hypervisor
- Identify VM to physical location

- Reduced complexity and cost of managing a virtualized data center. Track changes automatically and continuously as VM's migrate.
- Increased control and optimization of both physical and virtual resources, avoiding multiple management systems, manual and time-consuming processes to coordinate the views
- Clear identification of Guests & Hosts during outages and support to assure that affected applications have contingency plans

FOR MORE INFORMATION

- Contact Us: info@nlyte.com
- Visit Us: www.nlyte.com

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