

# Nlyte Connector for Dell OpenManage Server Administrator (OMSA)

## SOLUTION BRIEF

### UNLOCK THE HIDDEN REAL-TIME MONITORING ALREADY IN YOUR DATA CENTER

Power consumption is one of the top concerns for enterprise data center managers, yet they are largely unaware of exactly how and where power is being used. In response, they are searching for ways to accurately monitor, measure and report on server power consumption and the related server temperature readings. With the Nlyte Connector for Dell OpenManage Server Administrator (OMSA), this mystery should be a thing of the past.

The Dell OMSA solution provides visibility and helps budget your data center's energy expense. It provides valuable insight into the overall operation of your physical infrastructure's processing functions by transforming granular, raw monitoring data into actionable business analytics. Empowered with this level of real-time metrics, you can uncover additional savings in your data center.

#### Access to Built-In Temperature Sensors

It has been observed that raising the temperature of the data center by as little as one degree Fahrenheit may yield a savings of 2-4% in total cooling costs. A less understood approach to controlling costs is leveraging the fact that it is the *inlet temperature* of the server itself that matters for true operational efficiency, not the room's temperature. So why do so many data center managers simply monitor room air temperatures? The short answer is they simply do not know that all modern active gear already includes temperature sensors built-in. Data centers managers have assumed that temperature sensors for their data center racks are the answer. As a point of reference, discrete hardware temperature sensors may cost \$75 or more. With an ASHRAE 2011 recommendation of six sensors per cabinet rack, costs can add up quickly.

**Fortunately, there is a more elegant, cost effective approach built within the hardware you already have.**

The Nlyte Connector for Dell OMSA, accesses the IPMI/ILO network stack found in all modern servers to read the built-in inlet temperature sensor.

In fact, every Enterprise-class server manufactured since 2010 includes multiple temperature sensors, accessible with the same IPMI/ILO protocols.

With Nlyte and Dell OMSA, you can get very accurate server inlet temperature readings from each and every server – for a fraction of the cost.

#### Avoid Smart PDU costs for per-server Power Monitoring

Power monitoring at the server level is critically important to understand consumption and costs. That said, power monitoring no longer requires expensive, intelligent PDUs. At over \$1000 apiece and with typically two per rack, users are spending a tremendous premium over simpler “dumb” PDUs which cost half as much. With Dell OMSA technology, users can get extremely accurate per-server power metrics directly from the server itself, via the same IPMI/ILO protocols used for temperature sensors. The use of the server's own built-in power sensors for measurement enables rack-level PDUs to be chosen for their power-handling reliability, without concern for any measurement capabilities. In today's power-hungry applications, this selection process is simply smarter and eliminates tradeoffs previously required.

**Nlyte with Dell OMSA allows you to eliminate the PDU from the server power monitoring process.**

#### With Nlyte and Dell OMSA, you can:

- Manage datacenter hot spots, plan and forecast power usage and eliminate the need for costly intelligent power strips and temperature sensors
- Increase data center utilization by increasing rack density to maximize server count per rack in a fixed rack power envelope
- Lower risk of outages associated with load-induced dynamic thermal performance
- Cut electricity costs by optimizing power profiles on specific workload types and applications per server, rack and floor

# Nlyte Connector for Dell OMSA

## POWERED BY DELL OMSA TECHNOLOGY

Nlyte with Dell OpenManage Server Administrator (OMSA) provides real-time energy data and insights that helps you manage the IT equipment in your data center and control the energy cost with greater precision. Dell OMSA collects real-time power consumption and thermal data from supported devices on a network. OMSA is based upon Dell's deep experience in energy management in data centers, and provides comprehensive real-time power and thermal data, as well as historical data for your daily data center management.

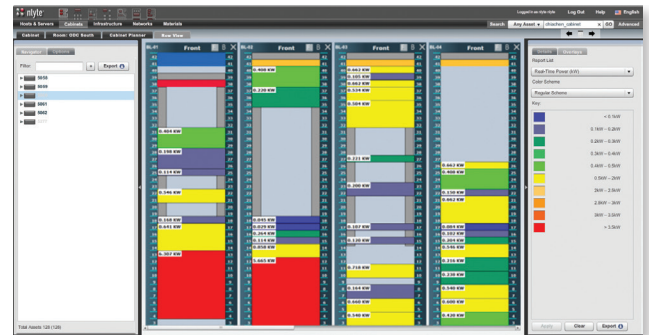


With Nlyte and Dell OMSA, you will be able to monitor and review all power consumption and inlet temperature of each device in your data center.

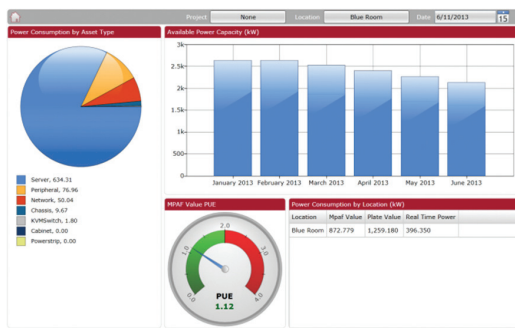
Dell OMSA is easy to deploy at any scale. Once installed, Nlyte will automatically monitor, record and report power and thermal data for you from all supported IT equipment (e.g. servers, blade servers, PDUs and UPSs). Dell works closely with major IT equipment manufacturers to continually increase the number of supported devices within your data center. The use of Dell OMSA eliminates the need for complex device-specific configuration, setup or customization.

Let the Nlyte and Dell OpenManage Server Administrator do the work for you, and get your energy monitoring efforts faster and easier.

Device-level energy metrics used throughout the Nlyte system, in capacity planning, prediction and reporting



Device-level energy data provides actionable information at the macro or micro level



Name	Recorded Date/Time	Unit	Value	Precedence
Power Flow Load	02 Mar 2014 10:28	Amper	13.679	1
Power Flow Load Average	02 Mar 2014 10:28	Amper	13.686	2
Power Flow Load Min	02 Mar 2014 10:28	Amper	10.201	3
Power Flow Load Max	02 Mar 2014 10:28	Amper	20.010	4

## FOR MORE INFORMATION

- Contact Us: [info@nlyte.com](mailto:info@nlyte.com)
- Visit Us: [www.nlyte.com](http://www.nlyte.com)

Nlyte is a registered trademark and Nlyte Software is a trademark of Nlyte Software Limited. All other brands or products names are the property of their respective holders. Information in this document is subject to change without notice and does not represent a commitment on the part of the vendor.

Copyright ©2017 Nlyte Software limited. All rights reserved.

## 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](http://www.nlyte.com) or follow @nlyte on Twitter.