

# NLYTE CONNECTOR

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 center 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 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.

## KEY BENEFITS

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

- 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

### 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



A selling point of Nlyte was the off-the-shelf integrations 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.


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## About Nlyte Software

Nlyte Software helps teams manage their hybrid infrastructure throughout their entire organization from desktops, networks, and servers to IoT devices – across facilities, data centers, collocation, edge, and the cloud. Using Nlyte’s monitoring, management, inventory, workflow, and analytics capabilities, organizations can automate their hybrid infrastructure to reduce costs, improve uptime, and help comply with regulatory and organizational policies

Nlyte Software is a part of Carrier Global Corporation.



When you're ready to  
optimize your critical  
infrastructure,  
We're ready to help.



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