



# DCOI Elevates Data Center Efficiency From Important to Critical

Your data center's efficiency has always been vitally important. The OMB just made it critical. Under the new Data Center Optimization Initiative (DCOI), the pressure is on to expand energy metering, lower PUE ratios, increase virtualization, and improve server and facility utilization. As if managing a high-security, Federal data center isn't hard enough.

CommScope infrastructure solutions can be found deployed throughout government and mission critical corporate environments. Every day we work with shared and enterprise facilities, helping them create greater efficiency using our iTRACS® software suite. Perform remote troubleshooting, upgrade your equipment software, coordinate issue resolution with CommScope Technical Support, coordinate repairs, and generate key performance indicator (KPI) reports for network alarms and equipment uptime. When needed, we work onsite, guiding your local staff through recommended maintenance and repair procedures or troubleshooting issues to resolve your toughest problems.

## The iTRACS® DCIM suite

CommScope's iTRACS DCIM is a complete DCIM solution that recently scored the highest by Gartner in its 2016 critical capabilities report\* in all three use cases: Medium Enterprise, Large Enterprise and Colocation Provider. Whereas many DCIM products offer individual "point solutions", iTRACS is designed to monitor and manage the major functional areas of your data center, providing a holistic view of how they are interconnected.

Aggregate, analyze, and visualize the infrastructure data from both your IT and facilities systems—assets, space, power, cooling, and connectivity—through a single pane of glass. iTRACS not only tells you where every cable, component and asset is and how it's performing, it gives you comprehensive command and control to improve efficiency in every corner of your data center.



iTRACS DCIM from CommScope gives you the tools to bring your facility into DCOI compliance.

*\*Gartner, Critical Capabilities for Data Center Infrastructure Management Tools, April Adams, David J. Cappuccio, Jay E. Pultz, Neha Kumar, Tiny Haynes, 7 March 2016, G00294591*

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# The DCOI: What it Mandates and How iTRACS Can Help

DCOI Metric*	Mandate (by Oct. 2018)	How iTRACS helps you comply
<b>Power Metering</b>	100% power metering of gross footage available for IT equipment	<ul style="list-style-type: none"> <li>✓ Acquires energy data from facilities equipment</li> <li>✓ Reports energy used across entire power chain</li> <li>✓ Calculates space available for IT equipment</li> <li>✓ Monitors and re-calculates space as environment changes</li> </ul>
<b>Power Usage Effectiveness (PUE)</b>	PUE ratio $\leq 1.5$ (existing facilities) or $\leq 1.4$ (new facilities)	<ul style="list-style-type: none"> <li>✓ Reports PUE by site, DC, enterprise</li> <li>✓ Provides ASHRAE verification to ensure environmentals are within spec</li> <li>✓ Delivers on-going insight into capacity and constraints</li> <li>✓ Identifies and redeploys stranded power</li> </ul>
<b>Virtualization</b>	1:4 ratio of fully virtualized servers to total operating systems	<ul style="list-style-type: none"> <li>✓ Identifies physical servers, hypervisors and virtual machines.</li> <li>✓ Identifies changes to VM architecture and the impact on physical architecture</li> <li>✓ Finds and displays server candidates for virtualization</li> <li>✓ Enables decommission of servers once applications are removed</li> </ul>
<b>Server Utilization</b>	At least 65% server utilization	<ul style="list-style-type: none"> <li>✓ Collects server utilization data for reporting</li> <li>✓ Link hardware power/cooling to VM utilization</li> <li>✓ Show localized hypervisor and VM load trends</li> <li>✓ Detects and enables elimination of ghost servers</li> </ul>
<b>Facility Utilization</b>	At least 80% of GFA to contain racks with active servers	<ul style="list-style-type: none"> <li>✓ Identifies all servers and their data center/ rack location</li> <li>✓ Identifies all active servers</li> <li>✓ Calculates floor space occupied by racks</li> </ul>

\*DCOI Metrics obtained from [datacenters.cio.gov](http://datacenters.cio.gov)

## Monitoring efficiency isn't enough. You need the command and control to improve it!

Whether you manage a shared service or enterprise facility, it takes more than monitoring to achieve and maintain DCOI compliance. You need a DCIM solution that can report your progress against the DCOI metrics and assist you in meeting them, no matter how your data center environment changes. Now you're talking iTRACS.

*50% of the Federal agencies surveyed could meet only one of the metrics mandated.*  
- "US federal government mandates DCIM", 451 Research, Andrew Donoghue, Rhonda Ascierio, March 2016

To learn more, contact your CommScope representative or visit CommScope at [commscope.com](http://commscope.com).



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