

Intel® Data Center Manager (Intel® DCM) Field Card

Intel® DCM is a solution for out-of-band data center management. From monitoring and managing server status, to flexible and transparent firmware provisioning, Intel® DCM can provide truly comprehensive firmware update capabilities to Intel® Server Systems.

The DSG Story

Intel® Server Systems are a comprehensive portfolio designed from the ground up to meet the next generation of data-centric demands, combining the latest data center innovations with Intel-backed pre-validation and a full stack of offerings.



Select a purpose-built system for any workload—from entry level, to enterprise workloads, to performance sensitive mainstream applications and HPC.



Reduce time-to-value and support lift through pre-validation, making it easier to build innovative solutions with pre-integrated Intel® Data Center Blocks, and ensuring customer satisfaction with standard warranties and robust global technical Intel support.



Leverage Intel's unique processor-based performance and security features like high-performance and low latency networking, hardened Intel x86 architecture, support for technologies like advanced analytics.

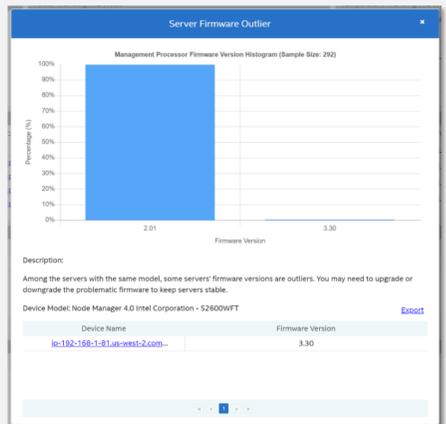


Scale across data center technologies with software compatibility across Intel x86 architecture, and seamlessly support network solutions, breakthrough Intel® Optane™ Persistent Memory, Intel® Optane™ SSDs, and other adjacencies.



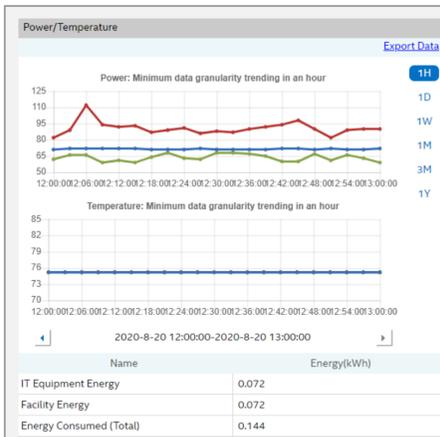
“Intel® DCM was *easy to plug in, and easy to get the data and analysis from our machines immediately.* The alerts and power limitations were *set up within a day.*”

—Vern Harbers, Technical Project Manager, Infrastructure IHME, University of Washington

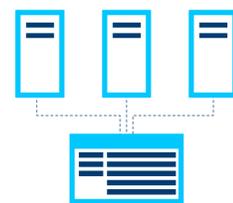


“Intel® Data Center Manager not only provided CERN LHCb IT staff with *accurate real-time power and thermal consumption data...* but promises to deliver *great value when deployed at our future site.*”

—Niko Neufeld, Deputy Project Leader at CERN



Sales Guidance Summary



Highlight the value of Intel® DCM as part of the Intel® Server Systems Portfolio

Intel® DCM can enhance visibility and ease of management for a wide range of server systems. Intel® DCM also provides comprehensive remote firmware update capabilities for all Intel components on a server system, which is a major advantage for “all-Intel” server systems.



Choose the right competitive positioning

Intel® DCM is an easy-to-use server management and provisioning solution that also includes many Data Center Infrastructure Management (DCIM) capabilities as well.



Highlight firmware as Intel® DCM's strength

Intel® DCM excels in easily provisioning device firmware and identifying out-of-compliance systems—it is not a substitute for end-to-end device, OS, and network provisioning.

Qualification



Resellers and Distributors

Company characteristics:

Traditional resellers of Intel®-based server systems who are looking to add more value to their existing white box server system offerings.

Product replacement opportunity:

Target resellers and distributors who offered systems using Intel® DCM's thermal and power management predecessor—the seamless expansion of Intel® DCM functionality is a major advantage.

End Customers

Company characteristics:

End customers using limited or no enterprise data center management software (small to medium-sized data centers)

Challenges:

- Difficulty interpreting firmware fault information and monitoring health of larger server deployments (10,000+)
- Workload and resource costs associated with server-by-server manual firmware provisioning
- High cost of enterprise management systems
- Confusing user interfaces (applies to tier 2 data center management systems)

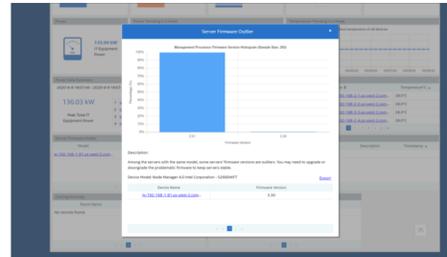
Resellers and Distributors

- **Increase the value of existing server offerings:** Intel® DCM integrates with all contemporary Intel® code-name Purley architecture systems, and serves as a free add-on with systems that features Intel® Remote Management Module AXRMM4Lite

End Customers – Differentiators vs. Other Tier-2 Offerings

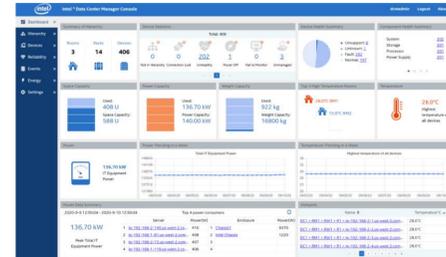
- Clean, unified, easy-to-engage user interface
- Surpasses basic power and thermal monitoring capabilities by providing utilization monitoring, firmware provisioning, automated detection, and other enterprise features
- Enables comprehensive firmware update for all Intel® components on a system with the click of a button; view video [here](#).

Use Cases



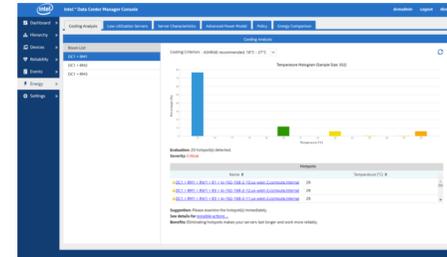
Firmware Provisioning and Updating

- Provision with a combination of auto-detection and flexible .csv registries
- Update multiple systems in parallel from one user interface
- Update firmware across all Intel® Server components in the chassis



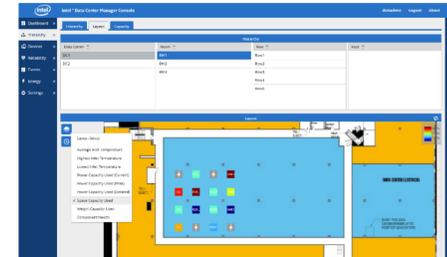
Health Monitoring

- Detect version outliers/out-of-compliance devices in specified IP-ranges
- Locate hotspots and predict health issues
- Receive reliable and customizable alerts for all types of devices



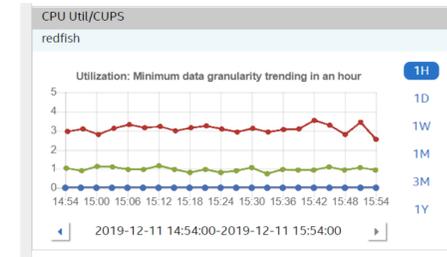
Power and Thermal Management

- Monitor over-provisioning power and cooling
- Create granular thermal maps
- Monitor energy use per device
- Correlate metrics
- Enforce power capping



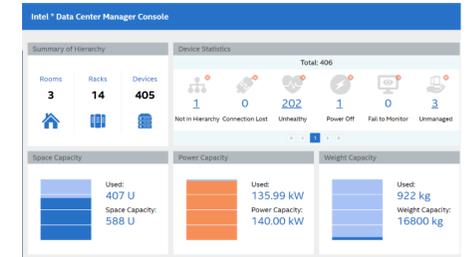
Asset, Inventory and Infrastructure Layout Management

- Discover and track asset details on available systems and create visual layouts
- Aggregate info for the entire infrastructure



Utilization Monitoring

- Monitor system utilization
- Identify unused servers
- Optimize applications and workloads
- Monitor across the network



Capacity Planning for Any Data Center

- Easily identify where to place servers and optimize rack density
- Group by racks with rack-by-rack views of systems from one UI
- Manage and forecast power and space demands

What's new in Intel® DCM v. 3.8?

Intel® DCM version 3.8 (which just launched) provides comprehensive firmware management and deeper visibility into asset status. It integrates DSG's Intel® Server Debug and Provisioning Tool (Intel® SDP Tool) to enable firmware updates, BIOS configuration and virtual media mounting for Intel® DSG servers exclusively.

Objection	Response	Proof Points
Can Intel® DCM really handle large-scale enterprise data center deployments?	Intel® Data Center Manager is based on an industry-proven software, including years of successful deployments with trusted industry partners.	 <p>CERN saw significant reductions in cooling costs and power usage effectiveness (PUE) by safely raising the temperature of the server room based on Intel DCM's thermal and health monitoring. Read the public white paper, here.</p> <p>Intel IT used Intel® DCM to identify opportunities for consolidating and virtualizing underutilized servers. Besides saving power, this also helped conserve space. Read more about this in the public whitepaper, here.</p>
	Intel® Data Center Manager has been tested for scalability for 20,000 IPMI nodes, and can greatly exceed this management capacity.	<p>Intel® DCM Instance Environment:</p> <ul style="list-style-type: none"> ▪ CPU: Intel® Xeon® Processor CPU E5-2699 v3 @ 2.30GHz ▪ Memory: 64 GB ▪ OS: CentOS 7.7

How to Get Intel® DCM

1. Purchase the Intel® DCM Software License Key for one or more servers
2. Integrate the Intel® Remote Management Module AXRMM4Lite on an Intel® Server Platform; once the module is detected by Intel® DCM, that is managed for free.

Sales Resources

To coordinate sales opportunities, contact:

[Brian Vandecoevering](#), [Ronald Pullis](#)

Intel® DCM Content:

- [Intel® DCM Product Details](#), [Intel® DCM Videos](#)

Partner Programs

- [Intel® Authorized Distributor](#)
- [Intel® Technology Provider](#)
- [Intel® Solutions Marketplace](#)

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