PRODUCT BRIEF

Intel® Data Center Manager
Console and SDK

Data Center IT Agility & Control

Eliminate Waste With Real-Time Monitoring and Management

Intel® DCM Console

Intel® DCM SDK (Web Service API)

Health Management

Monitor

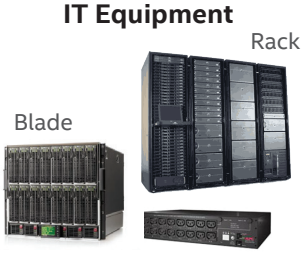
Control

Trend

Scale

Standards

IT Equipment



Intel® Data Center Manager (Intel® DCM) provides high value power management features addressing power and thermal issues challenging IT in dedicated data centers or colocations.

- **Visualize Power and Thermal Data Consumption**
  Aggregate actual and historical trend data with 2D front of rack, overhead maps, and graphs with alerting capability
- **Policy-based Management**
  Intelligent heuristics engine maintains group power caps while ensuring optimal performance
- **Scalability**
  Manage 10000s nodes using agentless technology
- **Health Monitoring and Utilization**
  Granular sub-component failure analysis and out of band real-time utilization data (CPU, disk and memory)

Challenges in Data Centers

- Older data centers are maxed out in power capacity.
- Poor thermal design leads to hot spots that limit rack loading.
- Establishing a power monitoring capability requires establishing a separate infrastructure of IP based intelligent power strips.
- Lack of visibility into actual power consumption requires significant overprovisioning to maintain reserve margins.
- Colocation clients lack information to compare real-time environmentals to SLA.
- Current designs are not efficient at low loading levels: an idling server doing zero work still consumes 50% of peak power.
- It is difficult to obtain an integrated view of a server pool.

The Intel DCM Console

- **Easy to Install**
  - Install in minutes with minimal system requirements
  - Scan networks and add devices automatically
  - Easily add racks, rows and rooms of systems
- **Collect Real-Time Power Data**
  - Offers cross platform support
  - Requires no OS rights or privileges
- **Analysis Tools**
  - Identify cooling efficiencies
  - Detect underutilized systems
  - Visualize power consumption in maps and graphs
  - Model power consumption changes and impact to infrastructure
- **Historical Trending**
  - Historical data maintained for a year
  - Power and thermal data compiled and aggregated
  - Data is exportable
- **Faster Resolution**
  - Enabled KVM feature for easy server diagnosis and fix
- **Alerting and Control**
  - Create alerts and have them forwarded
  - Implement power consumption policy
- **Firmware Update (New!)**
  - Update firmware for Intel Server Boards & Systems

INTEL® DATA CENTER MANAGER CONSOLE AND SDK

FEATURES	BENEFITS
Monitoring	• Real-time monitoring of actual power and inlet temperature data aggregated to rack, row, room • Server health component monitoring • User-defined physical or logical groups • Receives alerts based on custom power & thermal events • Power estimation engine for legacy servers lacking power monitoring • Displays server asset tag and serial # for HP, IBM, Dell • Intel Node Manager 3.0 support for CPU, Intel® Xeon Phi™ and memory subsystem power monitoring
Trending	• Logs power & thermal data, query trend data using filters • Saves 1 year of history data for capacity planning
Control	• Remote console capability for fast hardware diagnosis and fix • Intelligent and patented group policy engine • Supports multiple concurrent active power policy types at multiple hierarchy levels • Allows scheduling of policies including power capping, by time of day or/and day of week • Maintains group power capping while dynamically adapting to changing server loads • Intel Node Manager 3.0 support for CPU, Intel® Xeon Phi™ power limiting and core idling
Agent-less	• Does not require installation of any software agents on managed nodes
Easy integration and co-existence	• Device inventory pre-scan using IP ranges • Exposes high level Web Services Description Language (WSDL) APIs • Can reside on an independent management server or co-exist with ISV product on same server • Power / thermal aware scheduling – airflow and outlet temp. modeling (OEM dependent) • Outlet temperature sensor (OEM dependent)
Scalability	• Manages tens of thousands of servers
Security	• Secured APIs • Secured communication with managed nodes • Encryption of all sensitive data

SYSTEM REQUIREMENTS

COMPONENTS	REQUIREMENTS	
Operating system of management server	• Microsoft* Windows* Server 2012 x64 Edition • Microsoft* Windows* Server 2008 x86 Edition • Microsoft* Windows* Server 2008 x64 Edition • Microsoft* Windows* Server 2003 R2 x86 Edition • Microsoft* Windows* Server 2003 R2 x64 Edition • VMWare ESX 3.5/4.0/4.1	• Red Hat* Enterprise Linux 5 (EL5) Server x86 Edition • Red Hat* Enterprise Linux 5 (EL5) Server x64 Edition • Red Hat* Enterprise Linux 6 • Novell* SUSE* Linux Enterprise Server 10 (SLES10) x86 Edition • Novell* SUSE* Linux Enterprise Server 10 (SLES10) x64 Edition • Novell* SUSE* (SLES 11) • Ubuntu Server 12 x64
Management server run-time	It is recommended to install the Intel® DCM server on a system with at least: • A dual-core processor of 2.6Ghz or higher • 4GB RAM • 60GB of hard drive space	Automatically installed by Intel® DCM: • Sun Microsystems* Java Runtime Environment* 8 • Apache* Tomcat* application server 7 • JAX-WS web service engine • PostgreSQL 9 Database

Where to Get More Information

For more information on Intel® Data Center Manager, visit **www.intel.com/dcm** or contact **dcmsales@intel.com**

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