



Sun Management Center

Advanced management for Sun servers,
the Solaris™ OS, and Linux

Highlights

- Provides in-depth monitoring and diagnostics for systems, OS, and services
- Manages advanced Solaris 10 features, including Solaris Containers and DTrace
- Delivers comprehensive event, fault, and alarm management of key systems attributes
- Offers flexible in-band and out-of-band management of Sun systems
- Provides Solaris Containers support: management, monitoring, reporting, resource utilization, and scheduling of the virtualized environment
- Provides comprehensive online diagnostic testing that identifies hardware faults for corrective action
- Offers high-availability support for worry-free uptime
- Integrates with enterprise management solutions using a standards-based protocol to protect existing investment



In today's competitive environment, enterprise customers across all industries share common business requirements to reduce operating costs and improve service levels and efficiency. Sun™ Management Center software enables IT operators to enhance system availability, increase performance, and simplify management of their Sun servers, the Solaris™ OS, and Linux environments. With a scalable architecture, Sun Management Center can grow as your needs expand, delivering enterprise-class systems management performance and uptime. And now it's easier than ever to install and deploy Sun Management Center software to manage the Sun servers in your datacenters.

Using Sun Management Center, IT administrators can manage enterprise infrastructure from virtually anywhere on the Web. Additionally, Sun Management Center includes support for key features of Solaris Containers technology, which enables management of the virtual environment.

While providing the most comprehensive instrumentation and administrative knowledge for Sun environments, Sun Management Center software also provides open interfaces to enable information sharing with other management platforms. Bottom line — Sun Management Center enables organizations to increase control of their servers and drive down the total cost of managing their datacenters.

Improves service levels

In today's 24x7 business environment, downtime is not an option. With comprehensive event and alarm management, Sun Management Center software helps keep systems up and running at optimal levels, while high-availability failover increases application services uptime and assures users that the infrastructure is managed with complete data integrity and minimal downtime.

Sun Management Center lets organizations store and analyze critical system performance and configuration data for fault analysis, system sizing, and capacity planning, and it provides comprehensive online diagnostic testing that identifies hardware faults before they can affect system availability and performance. What's more, Sun Management Center delivers secure management controls for dynamic reconfiguration and domain management — and it supports Dynamic Tracing (DTrace) to create custom programs for analyzing system and application health and providing immediate feedback.

Lowers operating costs

To keep operating costs at a minimum, Sun Management Center software automates management of complex systems and repetitive tasks to save time and reduce human error, including predictive failure analysis to alert IT staff of potential problems before they occur. Plus, Sun Management Center software's enterprise-class functionality — including group operations, command line interface (CLI) utilities, and module configuration propagation — optimizes management efficiency.

Scalable across the enterprise

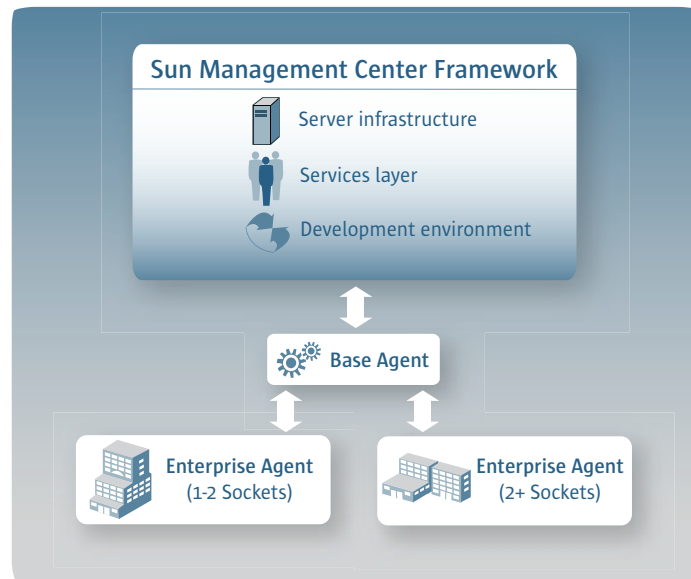
With Sun Management Center software, IT professionals can remotely manage hundreds of Sun servers from anywhere on the Web. The software supports many of the most advanced Solaris 10 features, such as Solaris Containers, fault management, and DTrace. And it integrates with heterogeneous enterprise management frameworks to protect your critical IT investments.

Sun Management Center

- Installation wizard and deployment tools
- High-availability failover at the server layer
- Virtualization via Solaris Containers
- System discovery and group operations
- System hardware and OS diagnostics
- Event monitoring and notification
- Physical views of server hardware components

Base agent (offered with the server framework):

- Monitoring
- Event management
- Alarming
- Reporting
- Scheduling
- High availability
- Security
- Customized hardware support
- Photorealistic physical and logical view of systems
- Developer environment



Sun Management Center package structure

Enterprise agent:

- OS virtualization
 - Solaris Containers management
 - Resource management
 - Monitoring, graphing, and alarming
 - Flexible allocation of compute power
- Deep OS monitoring
 - Process, file systems, and kernel
 - Hardware diagnostic suite
 - Solaris features support, including FMA, SMF, DTrace
 - Solaris Containers monitoring
- Enhanced reporting
 - Performance graphing and trend analysis
 - Historical trending
 - Hardware and software status and inventory
 - Automated report generation
- Reliability
 - Script launching, including DTrace
 - Monitoring and auditing of package, patch and files
 - Kernel reader
 - Crash dump analyzer
- Availability
 - Continuous Web service monitoring
 - Synthetic transaction for response monitoring
 - Remote agents management
 - Status on OS and network services

Feature	Function	Benefit
Virtualization	<ul style="list-style-type: none"> • Solaris Containers support: <ul style="list-style-type: none"> • Ability to create, destroy, suspend, and resume zones • Zone migration • Zone monitoring and management • Zone configuration • System resource control and management 	<ul style="list-style-type: none"> • Cost-effective partitioning allows users to do more with less by assigning system resources to services based on current business requirements instead of peak usage
In-depth monitoring	<ul style="list-style-type: none"> • In-depth monitoring and diagnostics for system hardware, OS, and services 	<ul style="list-style-type: none"> • Offers attributes to which users can set event thresholds to launch predetermined activities on the system, which lowers costs while improving service levels
High availability	<ul style="list-style-type: none"> • Failover capability from one Sun MC server to the next Dependability 	<ul style="list-style-type: none"> • With guaranteed Five 9s server uptime, users are assured that their infrastructure is managed with no loss of data
Dependability	<ul style="list-style-type: none"> • Supports the Fault Management Architecture (FMA) on the Solaris OS to unify error report and correlation — provides information and statistics of the system and deep error reporting 	<ul style="list-style-type: none"> • Systems can transparently recover from common types of failures and compensate for unplanned outages. • User can manage self-healing technology to predict component failures and mitigate serious problems before they occur, for increased efficiency and uptime
Service Management Facility (SMF)	<ul style="list-style-type: none"> • Monitoring and manageability of network services 	<ul style="list-style-type: none"> • Users can enable/disable services on a host or group of hosts with one click, for better operational efficiencies
Performance Optimization	<ul style="list-style-type: none"> • Visibility of system bottlenecks via DTrace, a comprehensive dynamic tracing framework of the Solaris 10 OS. This powerful infrastructure provides the ability to answer arbitrary queries concerning the behavior of the operating system and applications 	<ul style="list-style-type: none"> • Users can identify and resolve bottlenecks within minutes, rather than hours • By remotely enabling such tools, users can improve performance and ensure optimum resource utilization

Sun Management Center

System requirements

Software layer disk space

• Server layer (more for additional components)	800 MB
• Agent layer	18 MB
• Graphical console layer	62 MB
• Supported browser Netscape Navigator 6.2 or higher, Internet Explorer 6.0 or higher, Firefox 2.0 or higher, and Mozilla 1.7 or higher.	

Hardware platforms

- SPARC® and x86 platform-based workstations and servers

CoolThreads™ servers

- Sun SPARC Enterprise T5120
- Sun SPARC Enterprise T5220
- Sun SPARC Enterprise T1000
- Sun SPARC Enterprise T2000
- Sun Fire T1000
- Sun Fire T2000
- Sun Blade™ T6300 Server Module

Entry-level servers

- Sun Fire 280R
- Sun Fire V100
- Sun Fire V120
- Sun Fire V125
- Sun Fire V210
- Sun Fire V215
- Sun Fire V240
- Sun Fire V245
- Sun Fire V250
- Sun Fire V440
- Sun Fire V445

Midrange and high-end servers

- Sun SPARC Enterprise 4000
- Sun SPARC Enterprise 5000
- Sun SPARC Enterprise 8000
- Sun SPARC Enterprise 9000
- Sun Fire V480

- Sun Fire V490
- Sun Fire V880
- Sun Fire V890
- Sun Fire V1280
- Sun Fire E2900
- Sun Fire E4900
- Sun Fire E6900
- Sun Fire E20K
- Sun Fire E25K
- Sun Fire 12K
- Sun Fire 15K
- Sun Fire 3800
- Sun Fire 4800
- Sun Fire 4810
- Sun Fire 6800

Dynamic reconfiguration

- Sun Fire V880/V890 DR
 - SPARC Enterprise M4000-M9000 DR

Carrier-grade servers

- Netra™ T2000
- Netra 120
- Netra 210
- Netra 240
- Netra 440
- Netra 20
- Netra 1280
- Netra 1290
- Netra t 1120/1125
- Netra t 1400/1405
- Netra X4200 M2 (x64)

Desktop

- Sun Ultra™ 25
- Sun Ultra 45
- Sun Blade 100
- Sun Blade 150
- Sun Blade 1000
- Sun Blade 1500
- Sun Blade 2000
- Sun Blade 2500

Learn More

To learn more about the Sun Management Center, visit sun.com/software/products/sunmanagementcenter/.

x86/x64 systems (Linux and Solaris)

- x86 workstation
- Sun Fire v20z
- Sun Fire v40z
- Sun Fire X2100/X2100 M2
- Sun Fire X2200/X2200 M2
- Sun Fire X4100/X4100 M2
- Sun Fire X4200/X4200 M2
- Sun Fire X4500
- Sun Fire X4600/X4600M2
- Sun Blade X8400/X8420/X8440
- Sun Blade X6220/X6250

Supported operating environments

- Solaris 8, 9, 10 (SPARC)
- Sun Solaris 9, 10 X64/x86
- Red Hat RHEL AS/ES 4.0 (32-bit/64-bit) (Intel®/AMD™)
- SLES 9.3 (32/64 bit) (Intel/AMD)
- SLES 10.0 (32) (Intel/AMD)
- Fedora (FC) 4.0 (32/64 bit) (Intel/AMD)

Relevant standards supported

- Simple Network Management Protocol (SNMP) v1, SNMP v2usec, SNMP v2c, SNMP v3, Remote Method Invocation (RMI), HyperText Transfer Protocol (HTTP), and HTTP Secure (HTTPS).

Sun Microsystems, Inc. 4150 Network Circle, Santa Clara, CA 95054 USA Phone 1-650-960-1300 or 1-800-555-9SUN Web sun.com



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