HP SiteScope Monitors and Metrics

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This document is a collection of information for all SiteScope monitors and their respective counters or metrics. The document lists all metrics that can be configured per monitor as well as versions of applications or operating systems that are supported. It should also be noted that for some applications such as databases, “instance” metrics (for example, individual database table spaces) are available but not listed in this document.

The metrics and supported versions listed here are based on SiteScope version 10.00. While most metrics and versions should be supported in previous versions, there may be some unsupported situations. Also, this is a living document and will be updated as new functionality or changes take place.

Note: HP is not responsible for information relating to third-party applications.

Click the following links or turn to the appropriate page for the monitors or solution templates you are interested in.

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Common Monitors - Quick Reference

Operating System Monitors	Version
Microsoft Wndows Resources Monitor	XP Pro, NT 4.0, 2000, 2003, 2008
Microsoft Windows Services State Monitor	XP Pro, NT 4.0, 2000, 2003, 2008
UNIX Resources Monitor	Solaris 7, 8, 9 and 10 RedHat 7.x, 8.x, 9.x, Redhat Enterprise Linux 3.x AS and ES. HP-UX 11iv1 (B.11.11) on HP 9000 series. The following versions were successfully tested: • HP-UX B.11.11 U 9000/800 4030070275 unlimited-user license • HP-UX B.11.31 U ia64 4005705783 unlimited-user license AIX 5.2, 5.3
Solaris Zones Monitor	Solaris 10 update 7 5/09

Note:
- Other Windows and UNIX monitors are available such as the Windows Perfmon monitor and the individual CPU, memory, disk, etc. monitors. For Windows, the same operating systems are supported as noted above. For UNIX, the individual monitors can work on any type of UNIX that supports SSH or telnet. For Linux, RedHat is the only one that has been tested but individual monitors should also work on any version that supports SSH or telnet.
- Windows Server 2008 remote servers are not supported if User Account Control (UAC) is enabled.
-Solaris zones monitor officially supports only Solaris 10 update 7, since this is the release it was tested on, but it may also work on other Solaris 10 releases.

Application/Device Monitor	Platform (Platforms on which the Applications run on)	Version
Apache Web Server	All	1.3.9, 1.3.12, 2.0.x
BEA TUXEDO	Windows	6.5, 7.1, 8.0, 8.1, 9.0, 9.1
BEA WebLogic	All	6.0, 7.0, 8.x, 9.x
BroadVision	All	5.5, 6.0
Check Point Firewall	All	4.1 NG
Cisco Works	All	2000 and later
Citrix Presentation Server	Windows	1.0 – 4.5

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COM+	Windows	2000, 2003
HP NonStop Resources Monitor HP NonStop Event Log	HP NonStop	All G-Series, H-Series, and J-Series NonStop RVUs
IBM DB2 8.x	All operating systems with a supported JDBC driver and DB2 snapshot feature	8.x
IBM , 7.0x Application Server	Windows, Unix, and z/OS	3.5.x, 4.x, 5.x, 6.0x, 6.1x, 7.0x
IBM WebSphere MQ	Windows NT 4.0 and above, Solaris 2.6 and above	5.2, 5.3, 5.3.1, 6.0, 6.1x 7.0
F5 Big-IP	Not Applicable (sits on its own hardware)	4.0
MacroMedia ColdFusion	Windows	4.5.1
Microsoft ASP Server	Windows	4.0, 2000
Microsoft IIS	Windows	4.0, 5.0 6.0
Microsoft SQL Server	Windows	6.5, 7.1, 2000, 2005, 2008
Microsoft Windows Media Player	Windows	7.x, 9.x, 10.x, 11.0
Microsoft Windows Media Server	Windows	All via perfmon
Microsoft Exchange Server 2007	Windows	2007 (8.0) + PowerShell v1.0
Oracle 9i Application Server	All	9iAS
Oracle 10g Application Server	All	10gAS
Oracle Database	All	8i, 9i, 10g, 11g
Real One /Real Media Player	Windows	RealOne 2.x Real Media Player 7.x, 8.x, 9.x, 10.x
Real One /Real Media Server	Windows	All via perfmon
SAP CCMS	Windows NT 4.0, Windows 2000, Linux and Solaris	SAP R/3 4.6B, R/3 4.6C, R/3 4.7E SAP ECC5, ECC6
SAP Performance	All	SAP R/3 4.6B, R/3 4.6C, R/3 4.7E SAP ECC5, ECC6
SAP Java Web Aplication	Windows NT 4.0, Windows 2000, Linux and Solaris	Web Application Server 6.40 Web Application Server 7.00 SAP Enterprise Portal 5.0, 6.0 and 7.0
Siebel Server Manager	Windows and all Unix	6.3, 7.03, 7.04, 7.5.2, 7.5.3, 7.7, 8.0
Siebel Web Server	Windows and all Unix	6.3, 7.03, 7.04, 7.5.2, 7.5.3, 7.7, 8.0
SunOne Web Server	All	6.x
Sybase Database	All	11.0, 11.5, 11.92, 12.x
VMWare Performance	Virtual Center - Microsoft® Windows 2000, Microsoft® Windows XP Professional and Microsoft® Windows Server 2003 ESX server – own OS	VMware VirtualCenter 2.x VMware ESX 3.x VMware ESX 2.5 via VirtualCenter 2.x VMware ESX 3.x via VirtualCenter 3.x

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Monitors – Detailed Metrics

Operating System Monitors			
NOTE: In addition to or in place of the monitors below, individual server monitors listed in the "server monitors" section can be used.			
	Versions Supported	**Platforms Supported**	**Metrics**
HP NonStop Resources Monitor	All G-Series, H-Series, and J-Series NonStop RVUs		**CPU** • PROCESSBUSYTIME • INTERRUPT TIME • IDLE TIME **Memory** • ALLOCS (per sec) • DISKREADS (per sec) • DISKWRITES (per sec) • FAULTS (per sec) • FREE (16KB pages) • FREEMIN (16KB pages) • FREEQUOTA (16KB pages) • FREERED (16KB pages) • LOCKED (16KB pages) • LOCKED (KSEG0) (16KB pages) • MUTEXCRAX (per sec) • NONMUTEXCRAX (per sec) • PHYSCL (16KB pages) • REDBUSY (per sec) • REDHIT (per sec) • REDTASK (per sec) • SWAPBL (16KB pages) • UNDUMPED (16KB pages)
Microsoft Windows Resources Monitor	XP Pro, NT 4.0, 2000, 2003, 2008		Any Perfmon counter. Commonly monitored counters include: **System** • % Total Processor Time • File Data Operations/sec • Processor Queue Length • Total Interrupts/sec **Processor** • % Processor Time **Objects** • Threads **Process** • Private Bytes **Physical Disk** • % Disk Time

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			Memory • Page Faults/sec • Pages/sec • Pool Nonpaged Bytes
Microsoft Windows Perfmon Monitor	XP Pro, NT 4.0, 2000 and 2003, 2008		Any Perfmon counter. Commonly monitored counters include: **System** • % Total Processor Time • File Data Operations/sec • Processor Queue Length • Total Interrupts/sec **Processor** • % Processor Time **Objects** • Threads **Process** • Private Bytes **Physical Disk** • % Disk Time **Memory** • Page Faults/sec • Pages/sec • Pool Nonpaged Bytes
Microsoft Windows Services State Monitor	XP Pro, NT 4.0, 2000 and 2003, 2008		Capabilities include monitoring of: • Services added • Services changed to not running • Services changed to running • Services currently not running • Services currently running • Services deleted • Services last running • Number of services added • Number changed to not running • Number of services currently not running • Number of services currently running • Number of services deleted

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UNIX Resources Monitor	Solaris 2.7, 2.8, 2.9 and 5.10 RedHat 7.x, 8.x, 9.x, Redhat Enterprise Linux 3.x AS and ES are supported. AIX 5.2, 5.3		Commonly monitored objects include: • Block device activity • Buffer activity • CPU utilization • Cache stats • Console keyboard • Console mouse • Disk errors • Disk partition • File access system routines • File systems • Inode cache • Kernel network stats • Kernal memory allocation (KMA) activities • Load average • Memory • Message and semaphore activities • NFS client • NFS server • Network interface • Paging activity • Physical disk • Process • Processor • Processor info • Queue length • RPC client • RPC server • Status of process and inode file tables • System info • System calls
Solaris Zones Monitor	Solaris 10 update 7 5/09		**Per- Zone counters:** **cpu** • %usageOfMachineCpu • %usageOfPoolCpu The following 4 counters are only in non-global zones: • %usr • %sys • %idle • %wio **mem** • mbRss • mbSize • %memory **file system** **(for each file system in the zone)** • kbUsed

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			• kbAvail • %capacity **net** **(for each logical network interface in the zone)** • inputPackets • outputPackets **<u>Physical machine counters:</u>** **cpu** • %usr • %sys • %idle • %wio **mem** • kbFreeMemory • kbAvailableVirtualMemory • kbPageInPerSecond • kbPageOutPerSecond • **device** **(for each device in the machine)** • readsPerSecond • writesPerSecond • kbReadPerSecond • kbWrittenPerSecond • **net** **(for each physical network interface in the machine)** • inputPackets • outputPackets • errInputPackets • errOutputPackets • collis • %networkErrs • %collisofOpkts • %errsOfIpkts

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Application Monitors		
Web Servers Apache Microsoft IIS Microsoft Active Server Pages SunOne Web Server **Media Servers** Microsoft Windows Media Player Microsoft Windows Media Server Real One Media Player Real Media Player Real One Media Server Real Media Server	**Application Servers/ Middleware** BEA WebLogic BEA Tuxedo BroadVision Citrix Presentation Server COM+ IBM WebSphere Application Server IBM WebSphere MQ JMX MacroMedia Coldfusion Oracle 10g Application Server VMWare Virtual Center/ESX server	**ERP** SAPGUI SAP CCMS **CRM** Siebel Server Siebel Web Server Siebel Log File **Databases** IBM DB2 8.x Microsoft SQL Oracle Sybase

Web Servers			
App.	**Versions supported**	**Platforms Supported**	**Metrics**
Apache	1.3.9, 1.3.12, 2.0.x	All	Counters for server-status?auto • Total Accesses • Total kBytes • CPULoad • Uptime • ReqPerSec • BytesPerSec • BytesPerReq • BusyWorkers • IdleWorkers Counters for server-status?refresh=30 • Server Version • Server Built • Current Time • Restart Time • Parent Server Generation • Server uptime • Total accesses • Total Traffic • CPU Usage • CPU load • requests/sec • B/second • B/request • requests currently being processed • idle workers

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Microsoft IIS	4.0, 5.0, 6.0	Windows	• Web Service – Anonymous Users/sec • Web Service – Bytes Received/sec • Web Service – Bytes Sent/sec • Web Service – Bytes Total/sec • Web Service – CGI Requests/sec • Web Service – Connection Attempts/sec • Web Service – Copy Requests/sec • Web Service – Current Anonymous Users • Web Service – Current Blocked Async I/O Requests • Web Service – Current CAL count for authenticated users • Web Service – Current CAL count for SSL connections • Web Service – Current CGI Requests • Web Service – Current Connections • Web Service – Current ISAPI Extension Requests • Web Service – Current NonAnonymous Users • Web Service – Delete Requests/sec • Web Service – Files Received/sec • Web Service – Files Sent/sec • Web Service – Files/sec • Web Service – Get Requests/sec • Web Service – Head Requests/sec • Web Service – ISAPI Extension Requests/sec • Web Service – Lock Requests/sec • Web Service – Locked Errors/sec • Web Service – Logon Attempts/sec • Web Service – Maximum Anonymous Users • Web Service – Maximum CAL count for authenticated users • Web Service – Maximum CAL count for SSL connections • Web Service – Maximum CGI Requests • Web Service – Maximum Connections • Web Service – Maximum ISAPI Extension Requests • Web Service – Maximum NonAnonymous Users • Web Service – Measured Async I/O Bandwidth Usage • Web Service – Mkcol Requests/sec • Web Service – Move Requests/sec • Web Service – NonAnonymous Users/sec • Web Service – Not Found Errors/sec • Web Service – Options Requests/sec • Web Service – Other Request Methods/sec • Web Service – Post Requests/sec • Web Service – Propfind Requests/sec • Web Service – Proppatch Requests/sec • Web Service – Put Requests/sec • Web Service – Search Requests/sec • Web Service – Service Uptime • Web Service – Total Allowed Async I/O Requests • Web Service – Total Anonymous Users

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			• Web Service – Total Blocked Async I/O Requests • Web Service – Total CGI Requests • Web Service – Total Connection Attempts (all instances) • Web Service – Total Copy Requests • Web Service – Total count of failed CAL requests for authenticated users • Web Service – Total count of failed CAL requests for SSL connections • Web Service – Total Delete Requests • Web Service – Total Files Received • Web Service – Total Files Sent • Web Service – Total Files Transferred • Web Service – Total Get Requests • Web Service – Total Head Requests • Web Service – Total ISAPI Extension Requests • Web Service – Total Lock Requests • Web Service – Total Locked Errors • Web Service – Total Logon Attempts • Web Service – Total Method Requests • Web Service – Total Method Requests/sec • Web Service – Total Mkcol Requests • Web Service – Total Move Requests • Web Service – Total NonAnonymous Users • Web Service – Total Not Found Errors • Web Service – Total Options Requests • Web Service – Total Other Request Methods • Web Service – Total Post Requests • Web Service – Total Propfind Requests • Web Service – Total Proppatch Requests • Web Service – Total Put Requests • Web Service – Total Rejected Async I/O Requests • Web Service – Total Search Requests • Web Service – Total Trace Requests • Web Service – Total Unlock Requests • Web Service – Trace Requests/sec • Web Service – Unlock Requests/sec

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Microsoft Active Server Pages	4.0, 2000	Windows	• Active Server Pages – Debugging Requests • Active Server Pages – Errors During Script Runtime • Active Server Pages – Errors From ASP Preprocessor • Active Server Pages – Errors From Script Compilers • Active Server Pages – Errors/Sec • Active Server Pages – Request Bytes In Total • Active Server Pages – Request Bytes Out Total • Active Server Pages – Request Execution Time • Active Server Pages – Request Wait Time • Active Server Pages – Requests Disconnected • Active Server Pages – Requests Executing • Active Server Pages – Requests Failed Total • Active Server Pages – Requests Not Authorized • Active Server Pages – Requests Not Found • Active Server Pages – Requests Queued • Active Server Pages – Requests Rejected • Active Server Pages – Requests Succeeded • Active Server Pages – Requests Timed Out • Active Server Pages – Requests Total • Active Server Pages – Requests/Sec • Active Server Pages – Script Engines Cached • Active Server Pages – Session Duration • Active Server Pages – Sessions Current • Active Server Pages – Sessions Timed Out • Active Server Pages – Sessions Total • Active Server Pages – Template Cache Hit Rate • Active Server Pages – Template Notifications • Active Server Pages – Templates Cached • Active Server Pages – Transactions Aborted • Active Server Pages – Transactions Committed • Active Server Pages – Transactions Pending • Active Server Pages – Transactions Total • Active Server Pages – Transactions/Sec

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Solaris Zones	Solaris 10 update 7 (5/09) operating systems	All	Per-Zone counters: • usageOfMachineCpu – Usage (in %) of total cpu on the machine • %usageOfPoolCpu – Usage (in %) of total cpu in the zone pool Non-Global Zones: • %usr – Portion of time spent in user mode by the processors in this zone's pool (or in the default pool if no pool is used) • Sys – Portion of time spent in system mode by the processors in this zone's pool (or in the default pool if no pool is used • %idle – Portion of time spent idle (but not waiting for block IO) by the processors in this zone's pool (or in the default pool if no pool is used • %wio – Portion of time spent idle with some process waiting for block IO by the processors in this zone's pool (or in the default pool if no pool is used • mbRss – Memory resident set size in MB • mbSize – Total of virtual memory size in MB • %memory – Percentage of memory used • inputPackets – Num of input packets on this logical interface that were received successfully • outputPackets – Num of output packets on this logical interface that were transmitted successfully • kbUsed – KB used on this file system • kbAvail – KB available on this file system • %capacity – Percentage of used space out of total capacity on this file system Physical Machine counters: • %usr – Portion of time spent in user mode by all the processors on this system • Sys – Portion of time spent in system mode by all the processors on this system • %idle – Portion of time spent idle (but not waiting for block IO) by all the processors on this system • %wio – Portion of time spent idle with some process waiting for block IO by all the processors on this system • inputPackets – Num of input packets on this physical interface that were received successfully • outputPackets – Num of output packets on this physical interface that were transmitted successfully • errInputPackets – Num of input packets with errors on this physical interface • errOutputPackets – Num of failed attempts made to transmit a package on this physical interface • collis – Num of failed attempts to transmit a package on this physical interface that have been prevented by another machine trying to transmit at the same time

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			• %networkErrs – Percentage of packets in errs out of all packets on this physical interface • %collisofOpkts – Percentage of collisions out of packets transmitted successfully on this physical interface • %errsOfIpkts – Percentage of error input packets out of packets received correctly on this physical interface • readsPerSecond – Reads per second on this device • writesPerSecond – Writes per second on this device • kbReadPerSecond – KB read per second on this device • kbWrittenPerSecond – KB written per second on this device • kbFreeMemory – Free memory in KB • kbAvailableVirtualMemory – Sum (in KB) of free RAM and free disk swap space not reserved by processes or the kernel • kbPageInPerSecond – KB Paged-in per second • kbPageOutPerSecond – KB Paged-out per second Pool counters: • %used – Percentage of pool resource in use
SunOne Web Server	**6.x**	All	• **versionMajor** • versionMinor • enabled server id versionServer timeStarted secondsRunning ticksPerSecond maxProcs maxThreads maxVirtualServers flagProfilingEnabled flagVirtualServerOverflow connection-queue id thread-pool id name process pid mode timeStarted countConfigurations connection-queue-bucket connection-queue countTotalConnections countQueued peakQueued maxQueued countOverflows

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			countTotalQueued ticksTotalQueued thread-pool-bucket thread-pool countThreadsIdle countThreads maxThreads countQueued peakQueued maxQueued dns-bucket flagCacheEnabled countCacheEntries maxCacheEntries countCacheHits countCacheMisses flagAsyncEnabled countAsyncNameLookups countAsyncAddrLookups countAsyncLookupsInProgress keepalive-bucket countConnections maxConnections countHits countFlushes countRefusals countTimeouts secondsTimeout cache-bucket flagEnabled secondsMaxAge countEntries maxEntries countOpenEntries maxOpenEntries sizeHeapCache maxHeapCacheSize sizeMmapCache maxMmapCacheSize countHits countMisses countInfoHits countInfoMisses countContentHits countContentMisses virtual-server id mode hosts interfaces request-bucket method uri

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			countRequests countBytesReceived countBytesTransmitted rateBytesTransmitted maxByteTransmissionRate countOpenConnections maxOpenConnections count2xx count3xx count4xx count5xx countOther count200 count302 count304 count400 count401 count403 count404 count503 Derived Counters process/% File info cache hits process/% Cache heap utilization process/% Cache memory utilization process/% File content cache hits process/% DNS cache utilization process/% Idle threads process/% File cache hits process/% DNS cache misses process/% Cache table utilization process/% DNS cache hits

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Application Servers/Middleware			
App.	**Versions supported**	**Platforms Supported**	**Metrics**
BroadVision	4.1, 5.x, 6.0	All	**BV_SRV_CTRL** • BVLOG • SHUTDOWN **BV_SRV_STAT** • CPU • IDL • LWP • RSS • STIME • SYS • USR • VSZ **NS_STAT** • BIND • LIST • NEW • REBND • RSOLV • UNBND **BV_DB_STAT** • DELETE • INSERT • SELECT • SPROC • UPDATE **BV_CACHE_STAT** • BV_GDBQUERY_CACHE-HIT • BV_GDBQUERY_CACHE-MAX • BV_GDBQUERY_CACHE-MISS • BV_GDBQUERY_CACHE-SIZE • BV_GDBQUERY_CACHE-SWAP • BV_QUERY_CACHE-HIT • BV_QUERY_CACHE-MAX • BV_QUERY_CACHE-MISS • BV_QUERY_CACHE-SIZE • BV_QUERY_CACHE-SWAP • CNT-AD-HIT • CNT-AD-MAX • CNT-AD-MISS • CNT-AD-SIZE • CNT-AD-SWAP • CNT-ALERTSCHED-HIT • CNT-ALERTSCHED-MAX

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			• CNT-ALERTSCHED-MISS • CNT-ALERTSCHED-SIZE • CNT-ALERTSCHED-SWAP • CNT-CATEGORY_CONTENT-HIT • CNT-CATEGORY_CONTENT-MAX • CNT-CATEGORY_CONTENT-MISS • CNT-CATEGORY_CONTENT-SIZE • CNT-CATEGORY_CONTENT-SWAP • CNT-DF_GROUP-HIT • CNT-DF_GROUP-MAX • CNT-DF_GROUP-MISS • CNT-DF_GROUP-SIZE • CNT-DF_GROUP-SWAP • CNT-DF_MESSAGE-HIT • CNT-DF_MESSAGE-MAX • CNT-DF_MESSAGE-MISS • CNT-DF_MESSAGE-SIZE • CNT-DF_MESSAGE-SWAP • CNT-EDITORIAL-HIT • CNT-EDITORIAL-MAX • CNT-EDITORIAL-MISS • CNT-EDITORIAL-SIZE • CNT-EDITORIAL-SWAP • CNT-EXT_FIN_PRODUCT-HIT • CNT-EXT_FIN_PRODUCT-MAX • CNT-EXT_FIN_PRODUCT-MISS • CNT-EXT_FIN_PRODUCT-SIZE • CNT-EXT_FIN_PRODUCT-SWAP • CNT-INCENTIVE-HIT • CNT-INCENTIVE-MAX • CNT-INCENTIVE-MISS • CNT-INCENTIVE-SIZE • CNT-INCENTIVE-SWAP • CNT-MSGSCHED-HIT • CNT-MSGSCHED-MAX • CNT-MSGSCHED-MISS • CNT-MSGSCHED-SIZE • CNT-MSGSCHED-SWAP • CNT-MSGSCRIPT-HIT • CNT-MSGSCRIPT-MAX • CNT-MSGSCRIPT-MISS • CNT-MSGSCRIPT-SIZE • CNT-MSGSCRIPT-SWAP • CNT-PRODUCT-HIT • CNT-PRODUCT-MAX • CNT-PRODUCT-MISS • CNT-PRODUCT-SIZE • CNT-PRODUCT-SWAP • CNT-QUERY-HIT • CNT-QUERY-MAX

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			• CNT-QUERY-MISS • CNT-QUERY-SIZE • CNT-QUERY-SWAP • CNT-SCRIPT-HIT • CNT-SCRIPT-MAX • CNT-SCRIPT-MISS • CNT-SCRIPT-SIZE • CNT-SCRIPT-SWAP • CNT-SECURITIES-HIT • CNT-SECURITIES-MAX • CNT-SECURITIES-MISS • CNT-SECURITIES-SIZE • CNT-SECURITIES-SWAP • CNT-TEMPLATE-HIT • CNT-TEMPLATE-MAX • CNT-TEMPLATE-MISS • CNT-TEMPLATE-SIZE • CNT-TEMPLATE-SWAP • PARENTCATEGORYCACHE-HIT • PARENTCATEGORYCACHE-MAX • PARENTCATEGORYCACHE-MISS • PARENTCATEGORYCACHE-SIZE • PARENTCATEGORYCACHE-SWAP **BV_SMGR_CTRL** • DRAIN **JS_SCRIPT_CTRL** • CACHE • DUMP • FLUSH • METER • TRACE **JS_SCRIPT_STAT** • ALLOC • CTX • ERROR • FAIL • JSPPERR • RELEASE • STOP • SUCC • SYNTAX **BV_SMGR_STAT** • CGI • CONN • IdlQ • JOB • MODE

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			• Q_0 • Q_1 • Q_10 • Q_11 • Q_12 • Q_13 • Q_14 • Q_15 • Q_2 • Q_3 • Q_4 • Q_5 • Q_6 • Q_7 • Q_8 • Q_9 • SESS • THR • **BV_SMGR_QOS** • ADMIN_CT • DEF_P • NEW_P • P_WEIGHT • REWARD_P1 • REWARD_P2 • REWARD_P3 • REWARD_P4 • REWARD_P5
COM+ *(see installation notes at the bottom of the right column)*	COM+ applications	Windows 2000 and later	**Application Level** • Activation • Authenticate • Authenticate Failed • Shutdown • Thread Start • Thread Terminate • Work Enque • Work Reject **Transaction Level** • Transaction Aborted • Transaction Commit • Transaction Duration • Transaction Prepared • Transaction Start **Object Level (per object)** • Disable Commit • Enable Commit

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			• Object Activate • Object Create • Object Deactivate • Object Destroy • Object LifeTime • Set Abort • Set Complete **Method Level (per method)** • Method Duration • Method Exception • Method Failed • Method Frequency ** This monitor requires a COM+ probe that must be installed on each production system to be monitored. The probe can be downloaded from the Hewlett Packard Customer Support site or directly from here. ** This monitor also requires an optional license key that must be entered in the "Option Licenses" box on the SiteScope "General Preferences" page.
Macromedia ColdFusion	4.5x	Windows	• Avg DB Time (msec) • Avg Queue Time (msec) • Avg Req Time (msec) • Bytes In / Sec • Bytes Out / Sec • Cache Pops / Sec • DB Hits / Sec • Page Hits / Sec • Queued Requests • Running Requests • Timed Out Requests
BEA WebLogic Server *(These metrics vary depending on what application is installed. Metrics listed are examples but not comprehensive).*	5.x	All	• CPIndex • CPType • HeapUsedPct • JDBCCurrentInUse • JDBCCurrentPoolSize • JDBCHighaterWait • JDBCHighwaterConnect • JDBCInitCapacity • JDBCMaxCapacity • JDBCTotalConn • ListenAdminOK • ListenPort • ListenState • LoginEnabled • MaxHEapSpace • NumEJBBeansDeployed • NumEJBDeployment

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			• QueueLength • QueueThroughput • ServerState
BEA WebLogic Server *(These metrics vary depending on what application is installed. Metrics listed are examples but not comprehensive).*	6.x, 7.x	All	**Log Broadcaster Runtime** • MessagesLogged **Server Runtime** • ConnectionPoolCurrentCount • ConnectionPoolsTotalCount • Connector Service Runtime • Execute Queue Runtime • ExecuteThreadCurrentIdleCount • PendingRequestCurrentCount • PendingRequestOldestTime • ServicedRequestTotalCount **JMS Runtime** • ConnectionsCurrentCount • JMSServersCurrentCount • JMSServersHighCount • JMSServersTotalCount • ConnectionsHighCount • ConnectionsTotalCount **JTA Runtime** • SecondsActiveTotalCount • TransactionRolledBackTotalCount • TransactionHeuristicsTotalCount • TransactionRolledBackSystemTotalCount • TransactionRolledBackAppTotalCount • TransactionAbandonedTotalCount • TransactionTotalCount • TransactionRolledBackTimeoutTotalCount • ActiveTransactionsTotalCount • TransactionCommittedTotalCount • TransactionRolledBackResourceTotalCount **JVM Runtime** • HeapFreeCurrent • HeapSizeCurrent **Time Service Runtime:Time Event Generator** • ExceptionCount • ExecutionsPerMinute • ExecutionCount • ScheduledTriggerCount **WLEC Connection Service Runtime** • ConnectionPoolCount **Web App Component Runtime**

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			• Activation Time • Admin Server Listen Port • Listen Port • Open Sessions Current Count • Open Sessions HighCount • Open Sockets Current Count • Restarts Total Count • Sessions Opened Total Count • Sockets Opened Total Count **Servlet Runtime (includes ability to monitor JSPs, classes, HTTP client information, etc.)** • PoolMaxCapacity • ExecutionTimeLow • ReloadTotalCount • ExecutionTimeHigh • ExecutionTimeTotal • InvocationTotalCount • ExecutionTimeAverage **Server Security Runtime** • InvalidLoginAttemptsTotalCount • InvalidLoginUsersHighCount • LockedUsersCurrentCount • LoginAttemptsWhileLockedTotalCount • UnlockedUsersTotalCount • UserLockoutTotalCount
BEA Tuxedo	6.5, 7.1, 8.0, 8.1, 9.0, 9.1	Windows	**Server** • Requests per second • Workload per second **Machine** • Workload completed per second • Workload initiated per second **Queue** • Bytes on queue • Messages on queue **Workstation Handler (WSH)** • Bytes received per second • Bytes sent per second • Messages received per second • Messages sent per second • Number of queue blocks per second

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Citrix Presentation Server	1.0-4.5	Windows	• TerminaI Services
			  ○ Total Sessions
			  ○ Active Sessions
			  ○ Inactive Sessions
			• Terminal Services Session
			  ○ Console
			  • % Processor Time
			  • % User Time
			  • % Privileged Time
			  • Virtual Bytes Peak
			  • Virtual Bytes
			  • Page Faults/sec
			  • Working Set Peak
			  • Working Set
			  • Page File Bytes Peak
			  • Page File Bytes
			  • Private Bytes
			  • Thread Count
			  • Pool Paged Bytes
			  • Pool Nonpaged Bytes
			  • Handle Count
			  • InputWdBytes
			  • Input WdFrames
			  • Input WaitForOutBuf
			  • Input Frames
			  • Input Bytes
			  • Input Compressed Bytes
			  • Input Compress Flushes
			  • Input Errors
			  • Input Timeouts
			  • Input Async Frame Error
			  • Input Async Overrun
			  • Input Async Overflow
			  • Input Async Parity Error
			  • Input Transport Errors
			  • Output WdBytes
			  • OutputWdFrames
			  • Output WaitForOutBuf
			  • Output Frames
			  • Output Bytes
			  • Output Compressed Bytes
			  • Output Compress Flushes
			  • Output Errors
			  • Output Timeouts
			  • Output Async Frame Error
			  • Output Async Overrun
			  • Output Async Overflow
			  • Output Async Parity Error
			  • Output Transport Errors
			  • Total WdBytes

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			• Total WdFrames • Total WaitForOutBuf • Total Frames • Total Bytes • Total Compressed Bytes • Total Compress Flushes • Total Errors • Total Timeouts • Total Async Frame Error • Total Async Overrun • Total Async Overflow • Total Async Parity Error • Total Transport Errors • Total Protocol Cache Reads • Total Protocol Cache Hits • Total Protocol Cache Hit Ratio • Protocol Bitmap Cache Reads • Protocol Bitmap Cache Hits • Protocol Bitmap Cache Hit Ratio • Protocol Glyph Cache Reads • Protocol Glyph Cache Hits • Protocol Glyph Cache Hit Ratio • Protocol Brush Cache Reads • Protocol Brush Cache Hits • Protocol Brush Cache Hit Ratio • Protocol Save Screen Bitmap Cache Reads • Protocol Save Screen Bitmap Cache Hits • Protocol Save Screen Cache Hit Ratio • Input Compression Ratio • Output Compression Ratio • Total Compression Ratio
IBM WebSphere Application Server *(These metrics vary depending on what application is installed. Metrics listed are examples but not comprehensive).*	3.5.x, 4.x, 5.x, 6.0x, 6.1x, 7.0x	Windows, Unix and z/OS	**EJBs** Methods • Mean • methodCalls • methodRt (Statistical) • Num • Sum of Squares • Total Concurrent Actives (Load) • Current Value • Integral • Mean • Time Since Create Concurrent Lives (Load) • Current Value

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			• Integral • Mean • Time Since Create Active Methods (Load) • Current Value • Integral • Mean • Time Since Create Pool Size (Load) • Current Value • Integral • Mean • Time Since Create Avg Method Rt (Statistical) • Mean • Num • Sum of Squares • Total Avg Create Time (Statistical) • Mean • Num • Sum of Squares • Total Avg Remove Time (Statistical) • Mean • Num • Sum of Squares • Total Avg Drain Size (Statistical) • activates • creates • destroys • drainsFromPool • getsFound • getsFromPool • instantiates • loads • Mean • Num • passivates • removes • returnsDiscarded • returnsToPool • stores • Sum of Squares

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			• Total • totalMethodCalls **Connection Pools** • Faults • Num Allocates • Num Creates • Num Destroys • Num Returns • Prep Stmt Cache Discards Pool Size (Load) • Mean • Time Since Create • Integral • Current Value Concurrent Waiters (Load) • Mean • Time Since Create • Integral • Current Value Percent Used (Load) • Mean • Time Since Create • Integral • Current Value Percent Maxed (Load) • Mean • Time Since Create • Integral • Current Value Avg Wait Time (Statistical) • Mean • Num • Sum of Squares • Total **JVM Runtime** • freeMemory • totalMemory • usedMemory **Servlet Sessions** • Created Sessions • Invalidated Sessions Active Sessions (Load) • Mean • Time Since Create

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			• Integral • Current Value Live Sessions (Load) • Mean • Time Since Create • Integral • Current Value Session Life Time (Statistical) • Mean • Num • Sum of Squares • Total **Thread Pools** • Thread Creates • Thread Destroys Active Threads (Load) • Mean • Time Since Create • Integral • Current Value Pool Size (Load) • Mean • Time Since Create • Integral • Current Value Percent Maxed (Load) • Mean • Time Since Create • Integral • Current Value **Transaction Module** • Global Trans Begun • Global Trans Involved • Local Trans Begun • Num Optimization • Global Trans Committed • Local Trans Committed • Global Trans Rolled Back • Local Trans Rolled Back • Global Trans Timeout • Local Trans Timeout Active Global Trans (Load) • Mean

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			• Time Since Create • Integral • Current Value Active Local Trans (Load) • Mean • Time Since Create • Integral • Current Value Global Tran Duration (Statistical) • Mean • Num • Sum of Squares • Total Local Tran Duration (Statistical) • Mean • Num • Sum of Squares • Total Global Before Completion Duration (Statistical) • Mean • Num • Sum of Squares • Total Global Prepare Duration (Statistical) • Mean • Num • Sum of Squares • Total Global Commit Duration (Statistical) • Mean • Num • Sum of Squares • Total Local Before Completion Duration (Statistical) • Mean • Num • Sum of Squares • Total Local Commit Duration (Statistical) • Mean • Num • Sum of Squares • Total

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			Web App Servlets • Total Requests • Num Errors • Num Loaded Servlets • Num Reloads Concurrent Requests (Load) • Mean • Time Since Create • Integral • Current Value Response Time (Statistical) • Mean • Num • Sum of Squares • Total InvokerServlet • concurrentRequests (Load) • Current Value • Integral • Mean • Mean • Num • numErrors • responseTime (Statistical) • Sum of Squares • Time Since Create • Total • totalRequests JSP_1.1_Processor • concurrentRequests (Load) • Current Value • Integral • Mean • Mean • Num • numErrors • responseTime (Statistical) • Sum of Squares • Time Since Create • Total • totalRequests

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IBM WebSphere MQ *(see installation notes at the bottom of the right column)*	5.2, 5.3, 5.3.1, 6.0, 7.0	Windows NT 4.0 and later
		
		Solaris 2.6 and later
			Queues
			• Current Queue Depth
			• Queue Open Input Count
			• Queue Open Output Count
			• Event: Queue Depth High
			• Event: Queue Depth Low
			• Event: Queue Full
			• Event: Queue Service Interval High
			• Event: Queue Service Interval Ok
			
			Channels
			• Channel Bytes Received
			• Channel Bytes Sent
			• Channel Status
			• Channel Time Between Sends
			• No. of Channel Buffers Sent
			• No. of Channel Buffers Received
			• No. of Channel Messages Transferred
			• Event: Channel Activated
			• Event: Channel Not Activated
			• Event: Channel Started
			• Event: Channel Stopped
			• Event: Channel Stopped by User
			
			** This monitor requires two IBM MQ SupportPacs to be downloaded from the IBM Web site and installed on the same machine where the SiteScope server is running:
			
			MA88: MQSeries classes for Java, version 5.2.2 (5648-C60) or later. Click here to go to the IBM Web site for this support package. Note that in some cases this component may already be bundled with the IBM MQ Server installation. Check your IBM MQ install documentation for details.
			
			MS0B: WebSphere MQ Java classes for PCF. Click here to go to the IBM Web site for this support package.
			• com.ibm.mq.jar
			• connector.jar
			• For PCF(depends on WebSphere MQ version):
			  ○ com.ibm.mq.pcf.jar – for versions below 6.x
			  ○ pcf.jar - for WebSphere MQ 6.x and above
			
			** This monitor also requires an optional license key that must be entered in the “Option Licenses” box on the SiteScope “General Preferences” page.

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JMX *(These metrics vary depending on what application is monitored).*	Any JSR-160 (remote JMX) compliant application should work. WebLogic 9.x, Apache Tomcat 5.0, Oracle 10.1.3gAS and JBoss 4.0.3 have been tested.	Any OS that supports an application with JSR-160 compliance.	Metrics vary by target application.
Oracle 9i Application Server *(These metrics vary depending on what application is installed. Metrics listed are examples but not comprehensive).*	9iAS	All	**Interface: HTTP** • Active Sessions(max) • Active Sessions(now) • Apology Pages Served(Network Error - number this second) • Apology Pages Served(Network Error - total) • Apology Pages Served(Site Busy - number this second) • Apology Pages Served(Site Busy - total) • Application Web Server Backlog(max) • Application Web Server Backlog(now) • Completed Requests(avg/sec) • Completed Requests(max/sec) • Completed Requests(number/sec) • Completed Requests(total) • Latency(avg since start) • Latency(avg this interval) • Load(max) • Load(now) • Up/Down Time(up/down)
Oracle 10g Application Server	10gAS	All	**Oracle HTTP Server Metrics** • connection.active • connection.avg • connection.maxTime • connection.minTime • connection.time • handle.active • handle.avg • handle.maxTime • handle.minTime • handle.time • request.active • request.avg • request.completed • request.maxTime • • request.minTime • request.time **JVM Metrics** • activeThreadGroups.value • activeThreadGroups.minValue

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			• activeThreadGroups.maxValue • activeThreads.value • activeThreads.minValue • activeThreads.maxValue • upTime.value • freeMemory.value • freeMemory.minValue • freeMemory.maxValue • totalMemory.value • totalMemory.minValue • totalMemory.maxValue **JDBC Metrics** • ConnectionCloseCount.count • ConnectionCreate.active • ConnectionCreate.avg • ConnectionCreate.completed • ConnectionCreate.maxTime • ConnectionCreate.minTime • ConnectionCreate.time • ConnectionOpenCount.count **OC4J Metrics** Web Module • parseRequest.active • parseRequest.avg • parseRequest.completed • parseRequest.maxActive • parseRequest.maxTime • parseRequest.minTime • parseRequest.time • processRequest.active • processRequest.avg • processRequest.completed • processRequest.maxActive • processRequest.maxTime • processRequest.minTime • processRequest.time • resolveContext.active • resolveContext.avg • resolveContext.completed • resolveContext.maxActive • resolveContext.maxTime • resolveContext.minTime • resolveContext.time Web Context • resolveServlet.time • resolveServlet.completed • resolveServlet.minTime • resolveServlet.maxTime

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			• resolveServlet.avg • sessionActivation.active • sessionActivation.time • sessionActivation.completed • sessionActivation.minTime • sessionActivation.maxTime • sessionActivation.avg • service.time • service.completed • service.minTime • service.maxTime • service.avg • service.active Servlet • service.active • service.avg • service.completed • service.maxActive • service.maxTime • service.minTime • service.time JSP Runtime • processRequest.time • processRequest.completed • processRequest.minTime • processRequest.maxTime • processRequest.avg • processRequest.active JSP Name • activeInstances.value • availableInstances.value • service.active • service.avg • service.completed • service.maxTime • service.minTime • service.time Session Bean • session-type.value • transaction-type.value EJB Bean • transaction-type.value • session-type.value • bean-type.value • exclusive-write-access.value • isolation.value • persistence-type.value EJB Method • client.active • client.avg • client.completed

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			• client.maxActive • client.maxTime • client.minTime • client.time • ejbPostCreate.active • ejbPostCreate.avg • ejbPostCreate.completed • ejbPostCreate.maxTime • ejbPostCreate.minTime • ejbPostCreate.time • trans-attribute.value • wrapper.active • wrapper.avg • wrapper.completed • wrapper.maxActive • wrapper.maxTime • wrapper.minTime • wrapper.time OPMN Info • default_application_log.value • ias_cluster.value • ias_instance.value • jms_log.value • oc4j_instance.value • oc4j_island.value • opmn_group.value • opmn_sequence.value • rmi_log.value • server_log.value JMS • JMSStats • JMSRequestHandlerStats • JMSConnectionStats • JMSSessionStats • JMSMessageProducerStats • JMSMessageBrowserStats • JMSMessageConsumerStats • JMSDurableSubscriberStats • JMSDestinationStats • JMSTemporaryDestinationStats • JMSStoreStats • JMSPersistenceStats JMS Stats Metric • address.value • connections.count • host.value • oc4j.jms.computeMsgsize.value • oc4j.jms.debug.value • oc4j.jms.doGc.value • oc4j.jms.expirationInterval • oc4j.jms.forceRecovery.value

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			• oc4j.jms.intraSession.value • oc4j.jms.j2ee14.value • oc4j.jms.lazySync.value • oc4j.jms.listenerAttempts. • oc4j.jms.maxOpenFiles.value • oc4j.jms.messagePoll.value • oc4j.jms.noDms.value • oc4j.jms.pagingThreshold. • oc4j.jms.saveAllExpired.val • oc4j.jms.serverPoll.value • oc4j.jms.socketBufsize.val • oc4j.jms.usePersistence.val • oc4j.jms.useSockets.value • oc4j.jms.useUUID.value • port.value • requestHandlers.count • startTime.value • taskManagerInterval.value • method-name JMS Request Handler Stats • address.value • connectionID.value • host.value • port.value • startTime.value JMS Connection Stats • address.value • clientID.value • domain.value • exceptionListener.value • host.value • isLocal.value • isXA.value • port.value • startTime.value • user.value • method-name JMS Session Stats • acknowledgeMode.value • domain.value • isXA.value • sessionListener.value • startTime.value • transacted.value • txid.value • xid.value • method-name JMS Message Producer Stats • deliveryMode.value • destination.value • disableMessageID.value

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			• disableMessageTimestamp.value • domain.value • priority.value • startTime.value • timeToLive.value • method-name JMS Message Browser Stats • destination.value • selector.value • startTime.value • method-name JMS Message Consumer Stats • destination.value • domain.value • messageListener.value • name.value • noLocal.value • selector.value • startTime.value • method-name JMS Durable Subscription Stats • clientID.value • destination.value • isActive.value • name.value • noLocal.value • selector.value JMS Destination Stats • domain.value • name.value • locations.value • method-name JMS Temporary Destination Stats • connectionID.value • domain.value • method-name JMS Store Stats • destination.value • messageCount.value • messageDequeued.count • messageDiscarded.count • messageEnqueued.count • messageExpired.count • messagePagedIn.count • messagePagedOut.count • messageRecovered.count • pendingMessageCount.value • storeSize.value • method-name JMS Persistence Stats • destination.value

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			• holePageCount.value • isOpen.value • lastUsed.value • persistenceFile.value • usedPageCount.value • method-name Taskmanager • interval.value • run().active • run().avg • run().completed • run().maxActive • run().maxTime • run().minTime • run().time **mod_plsql Metrics** Session Cache • cacheStatus.value • newMisses.count • staleMisses.count • hits.count • requests.count Content Cache • cacheStatus.value • newMisses.count • staleMisses.count • hits.count • requests.count SQLErrorGroups • lastErrorDate.value • lastErrorRequest.value • lastErrorText.value • error.count LastNSQLErrors • errorDate.value • errorRequest.value • errorText.value NonSSOConnectionPool • connFetch.maxTime • connFetch.minTime • connFetch.avg • connFetch.active • connFetch.time • connFetch.completed • newMisses.count • staleMisses.count • hits.count RequestOwnerConnectionPool • connFetch.maxTime • connFetch.minTime • connFetch.avg

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			• connFetch.active • connFetch.time • connFetch.completed • newMisses.count • staleMisses.count • hits.count SuperUserConnectionPool • connFetch.maxTime • connFetch.minTime • connFetch.avg • connFetch.active • connFetch.time • connFetch.completed • newMisses.count • staleMisses.count • hits.count **Portal Metrics** Witness/PageEngine • pageRequests.value • cacheEnabled.value • cachePageHits.value • cachePageRequests.value • pageMetadataWaitTimeAvg.value • pageMetadataWaitTimeAvg.count • pageMetadataWaitTime.value • pageMetadataWaitTime.count • pageMetadataWaitTime.minValue • pageMetadataWaitTime.maxValue • pageElapsedTimeAvg.value • pageElapsedTimeAvg.count • pageElapsedTime.value • pageElapsedTime.count • pageElapsedTime.minValue • pageElapsedTime.maxValue • pageMetadataFetchTimeAvg.value • pageMetadataFetchTimeAvg.count • pageMetadataFetchTime.value • pageMetadataFetchTime.count • pageMetadataFetchTime.minValue • pageMetadataFetchTime.maxValue • queueTimeout.value • queueStayAvg.value • queueStayAvg.count • queueStay.value • queueStay.count • queueStay.minValue • queueStay.maxValue • queueLengthAvg.value • queueLengthAvg.count • queueLength.value • queueLength.count

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			• queueLength.minValue • queueLength.maxValue Witness/PageUrl • lastResponseDate.value • lastResponseCode.value • cacheHits.value • httpXXX.value • executeTime.maxTime • executeTime.minTime • executeTime.avg • executeTime.active • executeTime.time • connFetch.completed WitnessLoginUrl • lastResponseDate.value • lastResponseCode.value • cacheHits.value • httpXXX.value • executeTime.maxTime • executeTime.minTime • executeTime.avg • executeTime.active • executeTime.time • connFetch.completed WitnessVersionUrl • lastResponseDate.value • lastResponseCode.value • cacheHits.value • httpXXX.value • executeTime.maxTime • executeTime.minTime • executeTime.avg • executeTime.active • executeTime.time • connFetch.completed WitnessXSLUrl • lastResponseDate.value • lastResponseCode.value • cacheHits.value • httpXXX.value • executeTime.maxTime • executeTime.minTime • executeTime.avg • executeTime.active • executeTime.time • connFetch.completed WitnessPlsqlDad-provider • cacheHits.value • offline.value • httpXXX.value • executeTime.maxTime

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			• executeTime.minTime • executeTime.avg • executeTime.active • executeTime.time • connFetch.completed WitnessPlsqlDad-providerPortlet • lastResponseDate.value • lastResponseCode.value • cacheHits.value • httpXXX.value • executeTime.maxTime • executeTime.minTime • executeTime.avg • executeTime.active • executeTime.time • connFetch.completed WitnessWebDad-provider • cacheHits.value • offline.value • httpXXX.value • executeTime.maxTime • executeTime.minTime • executeTime.avg • executeTime.active • executeTime.time • connFetch.completed WitnessWebDad-providerPorlet • lastResponseDate.value • lastResponseCode.value • cacheHits.value • httpXXX.value • executeTime.maxTime • executeTime.minTime • executeTime.avg • executeTime.active • executeTime.time • connFetch.completed **JServ Metrics** Overall Jserv • port.value • readRequest.active • readRequest.avg • readRequest.maxTime • readRequest.minTime • readRequest.completed • readRequest.time • maxConnections.value • activeConnections.maxValue • activeConnections.value • idlePeriod.maxTime • idlePeriod.minTime

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			• idlePeriod.completed • idlePeriod.time • host.value • maxBacklog.value Jserv Zone • checkReload.active • checkReload.avg • checkReload.maxTime • checkReload.minTime • checkReload.completed • checkReload.time • activeSessions.value • readSession.count • writeSession.count • loadFailed.count Jserv Servlet • processRequest.active • processRequest.avg • processRequest.maxTime • processRequest.minTime • processRequest.completed • processRequest.time • serviceRequest.active • serviceRequest.avg • serviceRequest.maxTime • serviceRequest.minTime • serviceRequest.completed • serviceRequest.time • loadServlet.avg • loadServlet.maxTime • loadServlet.minTime • loadServlet.completed • loadServlet.time • loadServletClasses.active • loadServletClasses.avg • loadServletClasses.maxTime • loadServletClasses.minTime • loadServletClasses.completed • loadServletClasses.time • loadServlet.avg • createSession.active • createSession.avg • createSession.maxTime • createSession.minTime • createSession.completed • createSession.time • maxSTMInstances.value • activeSTMInstances.maxValue • activeSTMInstances.value Jserv JSP • processRequest.active

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			• processRequest.avg • processRequest.maxTime • processRequest.minTime • processRequest.completed • processRequest.time • serviceRequest.active • serviceRequest.avg • serviceRequest.maxTime • serviceRequest.minTime • serviceRequest.completed • serviceRequest.time • loadServlet.avg • loadServlet.maxTime • loadServlet.minTime • loadServlet.completed • loadServlet.time • loadServletClasses.active • loadServletClasses.avg • loadServletClasses.maxTime • loadServletClasses.minTime • loadServletClasses.completed • loadServletClasses.time • loadServlet.avg • createSession.active • createSession.avg • createSession.maxTime • createSession.minTime • createSession.completed • createSession.time • maxSTMInstances.value • activeSTMInstances.maxValue • activeSTMInstances.value **Oracle Process Manager/Notification Server Metrics** OPMN_PM Metrics • jobWorkerQueue.value • lReq.count • procDeath.count • procDeathReplace.count • reqFail.count • reqPartialSucc.count • reqSucc.count • rReq.count • workerThread.value OPMN_HOST_STATISTICS Metrics • cpuIdle.value • freePhysicalMem.value • numProcessors.value • timestamp.value • totalPhysicalMem.value OPMN_IAS_INSTANCE Metrics • iasCluster.value

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			OPMN_PROCESS_TYPE Metrics • moduleId.value OPMN_PROCESS_SET Metrics • numProcConf.value • reqFail.count • reqPartialSucc.count • reqSucc.count • restartOnDeath.value OPMN_PROCESS Metrics • cpuTime.value • heapSize.value • iasCluster.value • iasInstance.value • indexInSet.value • memoryUsed.value • pid.value • privateMemory.value • sharedMemory.value • startTime.value • status.value • type.value • uid.value • upTime.value OPMN_CONNECT Metrics • desc.value • host.value • port.value OPMN_ONS Metrics • notifProcessed.value • notifProcessQueue.value • notifReceived.value • notifReceiveQueue.value • workerThread.value OPMN_ONS_LOCAL_PORT Metrics • desc.value • host.value • port.value OPMN_ONS_REMOTE_PORT Metrics • desc.value • host.value • port.value OPMN_ONS_REQUEST_PORT Metrics • desc.value • host.value • port.value

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VMWare Performance	VirtualCenter 2.x ESX 3.x ESX 2.5 via VirtualCenter 2.x ESX 3.x via VirtualCenter 3.x	**Virtual Center** - Microsoft Windows 2000, Microsoft Windows XP Professional, and Microsoft Windows Server 2003 **ESX server** – own OS	**CPU Usage (Group: cpu)** • usage • usagemhz • system • wait • ready • extra • used • guaranteed • reservedCapacity **CPU Utilization for Resources (Group: rescpu)** • actav1 • actav5 • actav15 • actpk1 • actpk5 • actpk15 • runav1 • runav5 • runav15 • runpk1 • runpk5 • runpk15 • maxLimited1 • maxLimited5 • maxLimited15 • sampleCount • samplePeriod **Memory Performance (Group: mem)** • usage • vmmemctl • active • granted • shared • zero • unreserved • swapunreserved • swapused • sharedcommon • heap • heapfree • state • swapped • swaptarget • swapin • swapout • vmmemctltarget • consumed • overhead

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			• reservedCapacity **Network Performance (Group: net)** • usage • transmitted • received • packetRx • packetTx **Disk Performance (Group: disk)** • usage • read • write • numberRead • numberWrite **System Performance (Group: sys)** • uptime • resourceCpuUsage • heartbeat **Cluster Services Metrics (Group: clusterServices)** • cpufairness • memfairness • effectivecpu • effectivemem • failover

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ERP			
App.	**Versions supported**	**Platforms Supported**	**Metrics**
SAP Performance	SAP R/3 4.6B, R/3 4.6C, R/3 4.7E SAP ECC5, ECC6 ** This monitor requires that the SAP Java Connector (SAP JCo 2.1.5+) be downloaded and installed on the same server as where SiteScope is running. This connector is available at http://www.service.sap.com/connectors which requires a valid Service Marketplace login to access the site. Click on "SAP Java Connector", "Tools and Services". ** This monitor also requires an optional license key that must be entered in the "Option Licenses" box on the SiteScope "General Preferences" page.	Windows NT 4.0, Windows 2000, Linux and Solaris	**Database performance (Oracle)** • Calls - Parses • Calls - Reads / User calls • Calls - Recursive calls • Calls - User calls • Calls - User/Recursive calls • Calls - commits • Calls - rollbacks • Data buffer - Buffer busy waits • Data buffer - Buffer wait time s • Data buffer - Physical reads • Data buffer – Quality • Data buffer – Reads • Data buffer - Size kb • Data buffer - writes • Log buffer - Alloc fault rate • Log buffer - Allocation retries • Log buffer - Entries • Log buffer - Log files (in use) • Log buffer - Redo log waits • Log buffer - Size kb • Redo logging - Latching times • Redo logging - Mb written • Redo logging - OS-Blocks written • Redo logging - Write times • Redo logging - Writes • Shared Pool - DD-Cache quality • Shared Pool - SQL Area get ratio • Shared Pool - Size kb • Shared Pool – pin ratio % • Shared Pool - reloads/pins • Sorts - Disk • Sorts - Memory • Sorts - Rows sorted • Table scans & fetches - Fetch by row id • Table scans & fetches - Long table scans • Table scans & fetches - Short table scans • Table scans & fetches - by continued row • Time statistics - Busy wait times • Time statistics - CPU count • Time statistics - CPU times • Time statistics - CPU usage % • Time statistics - Sessions busy % • Time statistics - Time/User call ms **Database performance (MSSQL)** • Memory Usage/Current memory kb

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			• Memory Usage/Maximum memory kb • Memory Usage/Procedure cache kb • Memory Usage/Procedure cache hit ratio % • Memory Usage/Total SQL connections • Memory Usage/Free pages • Memory Usage/Data cache size kb • Memory Usage/Data cache hit ratio % • Space Usage/Total data size Mb • Space Usage/Free Space Mb • Space Usage/Total log size Mb • Space Usage/Free space Mb • Server Engine/CPU busy s • Server Engine/CPU idle s • Server Engine/IO busy s • Server Engine/Physical reads • Server Engine/Physical writes • Server Engine/Physical errors • SQL Requests/SQL batches • SQL Requests/Read ahead pages • SQL Requests/Request buffer pages • SQL Requests/Request buffer reads • SQL Requests/Request buffer writes • SQL Requests/Full table/index scans • SQL Requests/Index range scans • SQL Requests/Index searches • SQL Requests/Probe scans • SQL Requests/Lazy write • Workload/CPU Time • Workload/Dialog steps • Workload/Average CPU time • Workload/Av. RFC+CPIC time • Workload/Av. response time • Workload/Average wait time • Workload/Average load time • Workload/Av. Roll i+w time • Workload/Av. DB req. time • Workload/Av. enqueue time • Workload/Database requests • Workload/DB Calls: Direct reads • Workload/DB Calls: Sequential reads • Workload/DB Calls: Changes • Workload/Time per DB request • Workload/Time per Req.: Direct reads • Workload/Time per Req.: Sequential reads • Workload/Time per Req.: Changes and commits • Workload/Roll-in time • Workload/Roll-out time • Workload/Roll wait time • Workload/Roll-ins • Workload/Roll-outs

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			Workload • Av. DB req. time • Av. enqueue time • Av. response time • Av. RFC+CPIC time • Av. Roll i+w time • Average bytes req. • Average CPU time • Average load time • Average wait time • CPU Time • Database calls • Database requests • DB Calls: Changes • DB Calls: Direct reads • DB Calls: Sequential reads • Dialog steps • Roll wait time • Roll-in time • Roll-ins • Roll-out time • Roll-outs • Time per DB request • Time per Req.: Changes and commits • Time per Req.: Direct reads • Time per Req.: Sequential reads
SAP CCMS *(see installation notes at the bottom of the right column)*	SAP R/3 4.6B, R/3 4.6C, R/3 4.7E SAP ECC5, ECC6	Windows NT 4.0, Windows 2000, Linux and Solaris	See PDF document embedded here. C:\Work Files\ ccms_metrics.pdf ** This monitor requires that the SAP Java Connector (SAP JCo 2.1.5+) is downloaded and installed on the same server as where SiteScope is running. This connector is available at http://www.service.sap.com/connectors (a valid Service Marketplace login is required to access the site). Click "SAP Java Connector", "Tools and Services". ** This monitor also requires an optional license key that must be entered in the “Option Licenses” box on the SiteScope “General Preferences” page.

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SAP CCMS Alert (see installation notes at the bottom of the right column)	SAP R/3 4.6B, R/3 4.6C, R/3 4.7E SAP ECC5, ECC6	Windows NT 4.0, Windows 2000, Linux and Solaris	See PDF document embedded here. C:\Work Files\ ccms_metrics.pdf ** This monitor requires that the SAP Java Connector (SAP JCo 2.1.5+) is downloaded and installed on the same server as where SiteScope is running. This connector is available at http://www.service.sap.com/connectors (a valid Service Marketplace login is required to access the site). Click "SAP Java Connector", "Tools and Services". ** This monitor also requires an optional license key that must be entered in the “Option Licenses” box on the SiteScope “General Preferences” page.
SAP Java Web Aplication (see installation notes at the bottom of the right column)	Web Application Server 6.40 Web Application Server 7.00 SAP Enterprise Portal 5.0, 6.0 and 7.0	Windows NT 4.0, Windows 2000, Linux and Solaris	Metrics for the monitor received dynamically from SAP Java Web Aplication server. **The SAP Java Web Application Server monitor uses SAP JMX Connector libraries to connect to SAP J2EE cluster. A user must have the appropriate license granted by SAP to receive and use these libraries. ** This monitor also requires an optional license key that must be entered in the “Option Licenses” box on the SiteScope “General Preferences” page.

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CRM			
App.	**Versions supported**	**Platforms Supported**	**Metrics**
Siebel Application Monitor	7.03, 7.04, 7.5.3, 7.7, 8.0	Windows and all Unix	**Siebel Server Stats** • Average Connect Time • Average Reply Size • Average Request Size • Average Requests Per Session • Average Response Time • Average Think Time • Avg SQL Execute Time • Avg SQL Fetch Time • Avg SQL Parse Time • CPU Time • Elapsed Time • Num of DBConn Retries • Num of DLRbk Retries • Num of Exhausted Retries • Number of Sleeps • Number of SQL Executes • Number of SQL Fetches • Number of SQL Parses • Object Manager Errors • Reply Messages • Request Messages • Sleep Time • SQL Execute Time • SQL Fetch Time • SQL Parse Time • Tests Attempted • Tests Failed • Tests Successful • Total Reply Size • Total Request Size • Total Response Time • Total Tasks • Total Think Time **Component Stats** Call Center Object Manager • Average Connect Time • Average Reply Size • Average Request Size • Average Requests Per Session • Average Response Time • Average Think Time • Avg SQL Execute Time • Avg SQL Fetch Time • Avg SQL Parse Time

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			• CPU Time • Elapsed Time • Number of SQL Executes • Number of SQL Fetches • Number of SQL Parses • Number of Sleeps • Object Manager Errors • Reply Messages • Request Messages • SQL Execute Time • SQL Fetch Time • SQL Parse Time • Sleep Time • Total Reply Size • Total Request Size • Total Response Time • Total Tasks • Total Think Time File System Manager • Avg SQL Execute Time • Avg SQL Fetch Time • Avg SQL Parse Time • CPU Time • Elapsed Time • Num of DBConn Retries • Num of DLRbk Retries • Num of Exhausted Retries • Number of Sleeps • Number of SQL Executes • Number of SQL Fetches • Number of SQL Parses • Sleep Time • SQL Execute Time • SQL Fetch Time • SQL Parse Time • Total Tasks Sales Object Manager • Average Connect Time • Average Reply Size • Average Request Size • Average Requests Per Session • Average Response Time • Average Think Time • Avg SQL Execute Time • Avg SQL Fetch Time • Avg SQL Parse Time • CPU Time • Elapsed Time • Number of SQL Executes

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			• Number of SQL Fetches • Number of SQL Parses • Number of Sleeps • Object Manager Errors • Reply Messages • Request Messages • SQL Execute Time • SQL Fetch Time • SQL Parse Time • Sleep Time • Total Reply Size • Total Request Size • Total Response Time • Total Tasks • Total Think Time Server Manager • Avg SQL Execute Time • Avg SQL Fetch Time • Avg SQL Parse Time • CPU Time • Elapsed Time • Number of Sleeps • Number of SQL Executes • Number of SQL Fetches • Number of SQL Parses • Sleep Time • SQL Execute Time • SQL Fetch Time • SQL Parse Time • Total Tasks Server Reqest Broker • Avg SQL Execute Time • Avg SQL Fetch Time • Avg SQL Parse Time • CPU Time • Elapsed Time • Num of DBConn Retries • Num of DLRbk Retries • Num of Exhausted Retries • Number of Sleeps • Number of SQL Executes • Number of SQL Fetches • Number of SQL Parses • Sleep Time • SQL Execute Time • SQL Fetch Time • SQL Parse Time • Total Tasks

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			Server Request Processor • Avg SQL Execute Time • Avg SQL Fetch Time • Avg SQL Parse Time • CPU Time • Elapsed Time • Num of DBConn Retries • Num of DLRbk Retries • Num of Exhausted Retries • Number of Sleeps • Number of SQL Executes • Number of SQL Fetches • Number of SQL Parses • Sleep Time • SQL Execute Time • SQL Fetch Time • SQL Parse Time • Total Tasks Service Object Manager • Average Connect Time • Average Reply Size • Average Request Size • Average Requests Per Session • Average Response Time • Average Think Time • Avg SQL Execute Time • Avg SQL Fetch Time • Avg SQL Parse Time • CPU Time • Elapsed Time • Number of SQL Executes • Number of SQL Fetches • Number of SQL Parses • Number of Sleeps • Object Manager Errors • Reply Messages • Request Messages • SQL Execute Time • SQL Fetch Time • SQL Parse Time • Sleep Time • Total Reply Size • Total Request Size • Total Response Time • Total Tasks • Total Think Time eService Object Manager • Average Connect Time • Average Reply Size

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			• Average Request Size • Average Requests Per Session • Average Response Time • Average Think Time • Avg SQL Execute Time • Avg SQL Fetch Time • Avg SQL Parse Time • CPU Time • Elapsed Time • Number of Sleeps • Number of SQL Executes • Number of SQL Fetches • Number of SQL Parses • Object Manager Errors • Reply Messages • Request Messages • Sleep Time • SQL Execute Time • SQL Fetch Time • SQL Parse Time • Total Reply Size • Total Request Size • Total Response Time • Total Tasks • Total Think Time eTraining Object Manager • Average Connect Time • Average Reply Size • Average Request Size • Average Requests Per Session • Average Response Time • Average Think Time • Avg SQL Execute Time • Avg SQL Fetch Time • Avg SQL Parse Time • CPU Time • Elapsed Time • Number of SQL Executes • Number of SQL Fetches • Number of SQL Parses • Number of Sleeps • Object Manager Errors • Reply Messages • Request Messages • SQL Execute Time • SQL Fetch Time • SQL Parse Time • Sleep Time • Total Reply Size • Total Request Size

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			• Total Response Time • Total Tasks • Total Think Time **Component Objects** Call Center Object Manager • CP_ACTV_MTS Component • CP_DISP_RUN_STATE • CP_MAX_MTS • CP_MAX_TASK File System Manager • CP_ACTV_MTS Component • CP_DISP_RUN_STATE • CP_MAX_MTS • CP_MAX_TASK Sales Object Manager • CP_ACTV_MTS Component • CP_DISP_RUN_STATE • CP_MAX_MTS • CP_MAX_TASK Server Manager • CP_ACTV_MTS Component • CP_DISP_RUN_STATE • CP_MAX_MTS • CP_MAX_TASK Server Request Broker • CP_ACTV_MTS Component • CP_DISP_RUN_STATE • CP_MAX_MTS • CP_MAX_TASK Server Request Processor • CP_ACTV_MTS Component • CP_DISP_RUN_STATE • CP_MAX_MTS • CP_MAX_TASK Service Object Manager • CP_ACTV_MTS Component • CP_DISP_RUN_STATE • CP_MAX_MTS • CP_MAX_TASK eService Object Manager • CP_ACTV_MTS Component • CP_DISP_RUN_STATE

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			• CP_MAX_MTS • CP_MAX_TASK eTraining Object Manager • CP_MAX_TASK • CP_ACTV_MTS Component • CP_MAX_MTS • CP_DISP_RUN_STATE
Siebel Web Server	7.03, 7.04, 7.5.3, 7.7, 8.0	Windows and Unix	System Stats Anonymous sessions requested from the pool • Frequency mean • Frequency stddev • General Stats count • General Stats mean • General Stats stddev • Value Open Session Time • Frequency mean • Frequency stddev • General Stats count • General Stats mean • General Stats stddev • Value Anon Session Available • Frequency mean • Frequency stddev • General Stats count • General Stats mean • General Stats stddev • Value Close Session Time • Frequency mean • Frequency stddev • General Stats count • General Stats mean • General Stats stddev • Value Request Time • Frequency mean • Frequency stddev • General Stats count • General Stats mean • General Stats stddev • Value

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			Anon Session Removed • Frequency mean • Frequency stddev • General Stats count • General Stats mean • General Stats stddev • Value Response Time • Frequency mean • Frequency stddev • General Stats count • General Stats mean • General Stats stddev • Value Anonymous sessions returns to the pool • Frequency mean • Frequency stddev • General Stats count • General Stats mean • General Stats stddev • Value <u>Applications</u> /sales/Session Lifespan • Frequency mean • Frequency stddev • General Stats count • General Stats mean • General Stats stddev • Value /sales/ • Frequency mean • Frequency stddev • General Stats count • General Stats mean • General Stats stddev • Value /callcenter/ • Frequency mean • Frequency stddev • General Stats count • General Stats mean • General Stats stddev • Value

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			/callcenter/Session Lifespan • Frequency mean • Frequency stddev • General Stats count • General Stats mean • General Stats stddev • Value
Siebel Log File	7.03, 7.04, 7.5.3, 7.7, 8.0	Windows and Unix	The Siebel Log File Monitor watches for log file entries added to a group of log files by looking for entries containing a specific event type or subtype. Use this page to add the monitor or edit the monitor's properties.

Streaming Media Servers			
App.	**Versions supported**	**Platforms Supported**	**Metrics**
Real One Media Player **Real Media Player**	2.0 7.x, 8.x, 9.x, 10.x	Windows	• bandwidth • buffering congestion num • buffering congestion time • buffering num • buffering seek num • buffering seek time • buffering time • first frame time • late packets • live pause num • live pause time • lost packets • network performance • recovered packets • stream quality
Real One Media Server **Real Media Server**	All via perfmon	Windows	• Encoder Connections • HTTP Clients • Monitor Connections • Multicast Connections • PNA Clients • RTSP Clients • Splitter Connections • TCP Connections • Total Bandwidth • Total Clients • UDP Clients

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Microsoft Windows Media Player	7.x, 9.x, 10.x, 11.0	Windows	• buffering count • buffering time • interrupts • packet quality • packets lost • packets recovered • ratio bandwidth • recommended bandwidth • recommended duration • sampling rate • stream count • stream max • stream min • stream rate • time quality
Microsoft Windows Media Server	All via perfmon	Windows	**Windows Media Station Service** • Controllers • Stations • Streams **Windows Media Unicast Service** • Active Live Unicast Streams • Active Streams • Active TCP Streams • Active UDP Streams • Aggregate Read Rate • Aggregate Send Rate • Allocated Bandwidth • Authentication Requests • Authentications Denied • Authorization Requests • Authorizations Refused • Connected Clients • Connection Rate • HTTP Streams • HTTP Streams Reading Header • HTTP Streams Streaming Body • Late Reads • Pending Connections • Plugin Errors -- • Plugin Events • Scheduling Rate • Stream Errors • Stream Terminations • UDP Resend Requests • UDP Resends Sent

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Microsoft Exchange Server 2007	2007 (8.0) + PowerShell v1.0	Windows	• MAPI Connectivity/Result • MAPI Connectivity/Latency • Mail Flow/TestMailflowResult • Mail Flow/MessageLatencyTime • Exchange Search/ResultFound • Exchange Search/SearchTime • OWA Connectivity/Result • OWA Connectivity/Latency • Web Services Connectivity/CreateItem/Result • Web Services Connectivity/CreateItem/Latency • Web Services Connectivity/DeleteItem/Result • Web Services Connectivity/DeleteItem/Latency • Web Services Connectivity/GetFolder/Result • Web Services Connectivity/GetFolder/Latency • Web Services Connectivity/SyncFolderItems/Result • Web Services Connectivity/SyncFolderItems/Latency

Databases			
App.	**Versions supported**	**Platforms Supported**	**Metrics**
Oracle JDBC	8i, 9i, 10g, 11g	All platforms	**V$SYSSTAT and V$SESSTAT supported using JDBC driver.** • active txn count during cleanout • background checkpoints completed • background checkpoints started • background timeouts • branch node splits • buffer is not pinned count • buffer is pinned count • bytes received via SQL*Net from client • bytes received via SQL*Net from dblink • bytes sent via SQL*Net to client • bytes sent via SQL*Net to dblink • Cached Commit SCN referenced • calls to get snapshot scn: kcmgss • calls to kcmgas • calls to kcmgcs • calls to kcmgrs • change write time • cleanout - number of ktugct calls • cleanouts and rollbacks - consistent read gets • cleanouts only - consistent read gets • cluster key scan block gets • cluster key scans • cold recycle reads • commit cleanout failures: block lost • commit cleanout failures: buffer being written

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			• commit cleanout failures: callback failure • commit cleanout failures: cannot pin • commit cleanout failures: hot backup in progress • commit cleanout failures: write disabled • commit cleanouts • commit cleanouts successfully completed • Commit SCN cached • commit txn count during cleanout • consistent changes • consistent gets • consistent gets - examination • CPU used by this session • CPU used when call started • CR blocks created • current blocks converted for CR • cursor authentications • data blocks consistent reads - undo records applied • db block changes • db block gets • DBWR buffers scanned • DBWR checkpoint buffers written • DBWR checkpoints • DBWR cross instance writes • DBWR free buffers found • DBWR fusion writes • DBWR lru scans • DBWR make free requests • DBWR revisited being-written buffer • DBWR summed scan depth • DBWR transaction table writes • DBWR undo block writes • DDL statements parallelized • deferred (CURRENT) block cleanout applications • deferred CUR cleanouts (index blocks) • DFO trees parallelized • dirty buffers inspected • DML statements parallelized • enqueue conversions • enqueue deadlocks • enqueue releases • enqueue requests • enqueue timeouts • enqueue waits • exchange deadlocks • execute count • free buffer inspected • free buffer requested • gcs messages sent • ges messages sent • global cache blocks corrupt

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			• global cache blocks lost • global cache claim blocks lost • global cache convert time • global cache convert timeouts • global cache converts • global cache cr block build time • global cache cr block flush time • global cache cr block receive time • global cache cr block send time • global cache cr blocks received • global cache cr blocks served • global cache current block flush time • global cache current block pin time • global cache current block receive time • global cache current block send time • global cache current blocks received • global cache current blocks served • global cache defers • global cache freelist waits • global cache get time • global cache gets • global cache prepare failures • global cache skip prepare failures • global lock async converts • global lock async gets • global lock convert time • global lock get time • global lock releases • global lock sync converts • global lock sync gets • hot buffers moved to head of LRU • immediate (CR) block cleanout applications • immediate (CURRENT) block cleanout applications • immediate CR cleanouts (index blocks) • index fast full scans (direct read) • index fast full scans (full) • index fast full scans (rowid ranges) • index fetch by key • index scans kdiixs1 • instance recovery database freeze count • kcmccs called get current scn • kcmgss read scn without going to GES • kcmgss waited for batching • leaf node 90-10 splits • leaf node splits • logons cumulative • logons current • messages received • messages sent • native hash arithmetic execute

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			• native hash arithmetic fail • next scns gotten without going to GES • no buffer to keep pinned count • no work - consistent read gets • number of map misses • number of map operations • opened cursors cumulative • opened cursors current • opens of replaced files • opens requiring cache replacement • OS All other sleep time • OS Chars read and written • OS Data page fault sleep time • OS Input blocks • OS Involuntary context switches • OS Kernel page fault sleep time • OS Major page faults • OS Messages received • OS Messages sent • OS Minor page faults • OS Other system trap CPU time • OS Output blocks • OS Process heap size • OS Process stack size • OS Signals received • OS Swaps • OS System call CPU time • OS System calls • OS Text page fault sleep time • OS User level CPU time • OS User lock wait sleep time • OS Voluntary context switches • OS Wait-cpu (latency) time • OTC commit optimization attempts • OTC commit optimization failure - setup • OTC commit optimization hits • Parallel operations downgraded 1 to 25 pct • Parallel operations downgraded 25 to 50 pct • Parallel operations downgraded 50 to 75 pct • Parallel operations downgraded 75 to 99 pct • Parallel operations downgraded to serial • Parallel operations not downgraded • parse count (failures) • parse count (hard) • parse count (total) • parse time cpu • parse time elapsed • physical reads • physical reads direct • physical reads direct (lob)

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			• physical writes • physical writes direct • physical writes direct (lob) • physical writes non checkpoint • pinned buffers inspected • prefetch clients - 16k • prefetch clients - 2k • prefetch clients - 32k • prefetch clients - 4k • prefetch clients - 8k • prefetch clients - default • prefetch clients - keep • prefetch clients - recycle • prefetched blocks • prefetched blocks aged out before use • process last non-idle time • PX local messages recv'd • PX local messages sent • PX remote messages recv'd • PX remote messages sent • queries parallelized • recovery array read time • recovery array reads • recovery blocks read • recursive calls • recursive cpu usage • redo blocks written • redo buffer allocation retries • redo entries • redo log space requests • redo log space wait time • redo log switch interrupts • redo ordering marks • redo size • redo synch time • redo synch writes • redo wastage • redo write time • redo writer latching time • redo writes • remote instance undo block writes • remote instance undo header writes • rollback changes - undo records applied • rollbacks only - consistent read gets • RowCR - row contention • RowCR attempts • RowCR hits • rows fetched via callback • serializable aborts • session connect time

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			• session cursor cache count • session cursor cache hits • session logical reads • session pga memory • session pga memory max • session stored procedure space • session uga memory • session uga memory max • shared hash latch upgrades - no wait • shared hash latch upgrades - wait • sorts (disk) • sorts (memory) • sorts (rows) • SQL*Net roundtrips to/from client • SQL*Net roundtrips to/from dblink • summed dirty queue length • switch current to new buffer • table fetch by rowid • table fetch continued row • table lookup prefetch client count • table scan blocks gotten • table scan rows gotten • table scans (cache partitions) • table scans (direct read) • table scans (long tables) • table scans (rowid ranges) • table scans (short tables) • total file opens • total number of slots • transaction lock background get time • transaction lock background gets • transaction lock foreground requests • transaction lock foreground wait time • transaction rollbacks • transaction tables consistent read rollbacks • transaction tables consistent reads - undo records applied • Unnecesary process cleanup for SCN batching • user calls • user commits • user rollbacks • workarea executions - multipass • workarea executions - onepass • workarea executions - optimal • workarea memory allocated • write clones created in background • write clones created in foreground

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Microsoft SQL Server	6.5, 7.1, 2000, 2005, 2008	Windows	**SQLServer:Access Methods** • AU cleanup batches/sec • AU cleanups/sec • By-reference Lob Create Count • By-reference Lob Use Count • Count Lob Readahead • Count Pull In Row • Count Push Off Row • Deferred dropped AUs • Deferred Dropped rowsets • Dropped rowset cleanups/sec • Dropped rowsets skipped/sec • Extent Deallocations/sec • Extents Allocated/sec • Forwarded Records/sec • FreeSpace Page Fetches/sec • FreeSpace Scans/sec • Full Scans/sec • Index Searches/sec • LobHandle Destroy Count • LobSS Provider Create Count • LobSS Provider Destroy Count • LobSS Provider Truncation Count • Mixed page allocations/sec • Page Deallocations/sec • Page Splits/sec • Pages Allocated/sec • Probe Scans/sec • Range Scans/ • Scan Point Revalidations • Skipped Ghosted Records/sec • Table Lock Escalations/sec • Used leaf page cookie • Used tree page cookie • Workfiles Created/sec • Worktables Created/sec • Worktables From Cache Ratio **SQLServer:Backup Device** • Device Throughput Bytes/sec **SQLServer:Buffer Manager** • AWE lookup maps/sec • AWE stolen maps/sec • AWE unmap calls/sec • AWE unmap pages/sec • AWE write maps/sec • Buffer cache hit ratio • Checkpoint pages/sec

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			• Database pages • Free list stalls/sec • Free pages • Lazy writes/sec • Page life expectancy • Page lookups/sec • Page reads/sec • Page writes/sec • Readahead pages/sec • Reserved pages • Stolen pages • Target pages • Total pages **SQLServer:Buffer Partition** • Free list empty/sec – 0 • Free list empty/sec -- 1 • Free list requests/sec -- 0 • Free list requests/sec -- 1 • Free pages -- 0 • Free pages – 1 **SQLServer:CLR** • CLR Execution **SQLServer:Cursor Manager by Type (*_Total/API Cursor/TSQL Global Cursor/TSQL Local Cursor)*** • Active cursors • Cache Hit Ratio • Cached Cursor Counts • Cursor Cache Use Counts/sec • Cursor memory usage • Cursor Requests/sec • Cursor worktable usage • Number of active cursor plans **SQLServer:Cursor Manager Total** • Async population count • Cursor conversion rate • Cursor flushes **SQLServer:Database Mirroring** • Bytes Received/sec • Bytes Sent/sec • Log Bytes Received/sec • Log Bytes Sent/sec • Log Send Queue KB • Pages Sent/sec • Receives/sec • Redo Bytes/sec

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			• Redo Queue KB • Send/Receive Ack Time • Sends/sec • Transaction Delay **SQLServer:Databases** ***(_Total/<per database>)*** • Active Transactions • Backup/Restore Throughput/sec • Bulk Copy Rows/sec • Bulk Copy Throughput/sec • Data File(s) Size (KB) • DBCC Logical Scan Bytes/sec • Log Bytes Flushed/sec • Log Cache Hit Ratio • Log Cache Reads/sec • Log File(s) Size (KB) • Log File(s) Used Size (KB) • Log Flush Wait Time • Log Flush Waits/sec • Log Flushes/sec • Log Growths • Log Shrinks • Log Truncations • Percent Log Used • Repl. Pending Xacts • Repl. Trans. Rate • Shrink Data Movement Bytes/sec • Transactions/sec **SQLServer:Exec Statistics** ***(Average execution time (ms)/Cumulative execution time (ms) per second/Execs in progress/Execs started per second)*** • Distributed Query • DTC calls • Extended Procedures • OLEDB calls **SQLServer:General Statistics** • Active Temp Tables • Event Notifications Delayed Drop • HTTP Authenticated Requests • Logical Connections • Logins/sec • Logouts/sec • Mars Deadlocks • Non-atomic yield rate • Processes blocked • SOAP Empty Requests • SOAP Method Invocations

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			• SOAP Session Initiate Requests • SOAP Session Terminate Requests • SOAP SQL Requests • SOAP WSDL Requests • SQL Trace IO Provider Lock Waits • Temp Tables Creation Rate • Temp Tables For Destruction • Trace Event Notification Queue • Transactions • User Connections **SQLServer:Latches** • Average Latch Wait Time (ms) • Latch Waits/sec • Number of SuperLatches • SuperLatch Demotions/sec • SuperLatch Promotions/sec • Total Latch Wait Time (ms) **SQLServer:Locks** ***(_Total/AllocUnit/Application/Database/Extent/File/HoBT/Key/Metadata/Object/Page/RID)*** • Average Wait Time (ms) -- _Total • Average Wait Time (ms) -- Database • Average Wait Time (ms) -- Extent • Average Wait Time (ms) -- Key • Average Wait Time (ms) -- Page • Average Wait Time (ms) -- RID • Average Wait Time (ms) -- Table • Lock Requests/sec -- _Total • Lock Requests/sec -- Database • Lock Requests/sec -- Extent • Lock Requests/sec -- Key • Lock Requests/sec -- Page • Lock Requests/sec -- RID • Lock Requests/sec -- Table • Lock Timeouts/sec -- _Total • Lock Timeouts/sec -- Database • Lock Timeouts/sec -- Extent • Lock Timeouts/sec -- Key • Lock Timeouts/sec -- Page • Lock Timeouts/sec -- RID • Lock Timeouts/sec -- Table • Lock Wait Time (ms) -- _Total • Lock Wait Time (ms) -- Database • Lock Wait Time (ms) -- Extent • Lock Wait Time (ms) -- Key • Lock Wait Time (ms) -- Page • Lock Wait Time (ms) -- RID • Lock Wait Time (ms) -- Table • Lock Waits/sec -- _Total

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			• Lock Waits/sec -- Database • Lock Waits/sec -- Extent • Lock Waits/sec -- Key • Lock Waits/sec -- Page • Lock Waits/sec -- RID • Lock Waits/sec -- Table • Number of Deadlocks/sec -- _Total • Number of Deadlocks/sec -- Database • Number of Deadlocks/sec -- Extent • Number of Deadlocks/sec -- Key • Number of Deadlocks/sec -- Page • Number of Deadlocks/sec -- RID • Number of Deadlocks/sec – Table **SQLServer:Memory Manager** • Connection Memory (KB) • Granted Workspace Memory (KB) • Lock Blocks • Lock Blocks Allocated • Lock Memory (KB) • Lock Owner Blocks • Lock Owner Blocks Allocated • Maximum Workspace Memory (KB) • Memory Grants Outstanding • Memory Grants Pending • Optimizer Memory (KB) • SQL Cache Memory (KB) • Target Server Memory(KB) • Total Server Memory (KB) **SQLServer:Plan Cache** ***(_Total/Bound Trees/Extended Stored Procedures/Object Plans/SQL Plans/Temporary Tables & Table Variables)*** • Cache Hit Ratio • Cache Object Counts • Cache Objects in use • Cache Pages **SQLServer:Replication** • Agents Running • Dist • Logreader • Snapshot **SQLServer:SQL Errors** ***(_Total/DB Offline Errors/Info Errors/Kill Connection Errors/User Errors)*** • Errors/sec

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			SQLServer:SQL Statistics • Auto-Param Attempts/sec • Batch Requests/sec • Failed Auto-Params/sec • Forced Parameterizations/sec • Safe Auto-Params/sec • SQL Attention rate • SQL Compilations/sec • SQL Re-Compilations/sec • Unsafe Auto-Params/sec **SQLServer:Transactions** • Free Space in tempdb (KB) • Longest Transaction Running Time • NonSnapshot Version Transactions • Snapshot Transactions • Transactions • Update conflict ratio • Update Snapshot Transactions • Version Cleanup rate (KB/s) • Version Generation rate (KB/s) • Version Store Size (KB) • Version Store unit count • Version Store unit creation • Version Store unit truncation **SQLServer:User Settable** ***(User counter 1/User counter 2/User counter 3/User counter 4/User counter 5/User counter 6/User counter 7/User counter 8/User counter 9/User counter 10)*** • Query **SQLServer:Wait Statistics** ***(Average wait time (ms)/Cumulative wait time (ms) per second/Waits in progress/Waits started per second)*** • Lock waits • Log buffer waits • Log write waits • Memory grant queue waits • Network IO waits • Non-Page latch waits • Page IO latch waits • Page latch waits • Thread-safe memory objects waits • Transaction ownership waits • Wait for the worker • Workspace synchronization waits

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Sybase Database	11.0, 11.5, 11.92, 12.5		**Application** No Counters Currently Available **Cache** • % Hits • Pages from disk(read) • Pages from disk(read)/sec • Pages write • Pages write/sec • Pages(Read) • Pages(Read)/sec **Disk** • Master • Reads • Reads/sec • Writes • Writes/sec • Waits • Waits/sec • Grants • Grants/sec **Engine** • CPU time • Logical pages(Read) • Logical pages(Read)/sec • Pages from disk(Read) • Pages from disk(Read)/sec • Pages stored • Pages stored/sec • Server is busy(%) **Lock** • % Requests • Granted after wait • Granted after wait/sec • Granted immediately • Granted immediately/sec • Locks count • Locks count/sec • Not granted • Not granted/sec • Wait time(avg) **Memory Manager** • Cache size **Network** • Average packet size(Read)

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			• Average packet size(Send) • Network bytes(Read) • Network bytes(Read)/sec • Network bytes(Send) • Network bytes(Send)/sec • Network Packets(Read) • Network Packets(Read)/sec • Network Packets(Send) • Network Packets(Send)/sec **Process** • % Cache Hit • % Processor Time (process) • Locks/sec • Pages (write) **SqlSrvr** • % Processor Time(server) • Deadlocks • Locks/sec • Transactions **Stored procedures** • Avg. Duration (sampling period) • Avg. Duration (session) • Executed (sampling period) • Executed (session) **Transaction** • Inserts • Inserts/sec • Rows(deleted) • Rows(deleted)/sec • Transactions • Transactions/sec • Updates • Updates in place • Updates in place/sec • Updates/sec

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IBM DB2 8.x	8.x	All operating systems with a supported JDBC driver and the DB2 Snapshot feature.	• acc_curs_blk • active_sorts • agents_created_empty_pool • agents_from_pool • agents_registered • agents_stolen • agents_waiting_on_token • appl_section_inserts • appl_section_lookups • appls_cur_cons • appls_in_db2 • binds_precompiles • cat_cache_heap_full • cat_cache_inserts • cat_cache_lookups • cat_cache_overflows • comm_private_mem • commit_sql_stmts • con_local_dbases • ddl_sql_stmts • deadlocks • direct_read_reqs • direct_read_time • direct_reads • direct_write_reqs • direct_write_time • direct_writes • dynamic_sql_stmts • failed_sql_stmts • files_closed • hash_join_overflows • hash_join_small_overflows • idle_agents • inactive_gw_agents • int_auto_rebinds • int_commits • int_deadlock_rollbacks • int_rollbacks • int_rows_deleted • int_rows_inserted • int_rows_inserted rows_deleted • int_rows_updated • local_cons • local_cons_in_exec • lock_escals • lock_list_in_use • lock_timeouts • lock_wait_time • lock_waits

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			• lock_waits locks_held • locks_held • locks_waiting • log_reads • log_writes • num_assoc_agents • num_gw_conn_switches • open_loc_curs • open_loc_curs_blk • open_rem_curs • open_rem_curs_blk • piped_sorts_accepted • piped_sorts_requested • pkg_cache_inserts • pkg_cache_lookups • pkg_cache_lookups direct_reads • pkg_cache_num_overflows • pool_async_data_read_reqs • pool_async_data_reads • pool_async_data_writes • pool_async_index_reads • pool_async_index_writes • pool_async_read_time • pool_async_write_time • pool_data_from_estore • pool_data_l_reads • pool_data_p_reads • pool_data_to_estore • pool_data_writes • pool_drty_pg_steal_clns sort_overflows • pool_drty_pg_thrsh_clns • pool_index_from_estore • pool_index_l_reads • pool_index_p_reads • pool_index_to_estore • pool_index_writes • pool_lsn_gap_clns • pool_read_time • pool_write_time • post_threshold_sorts • prefetch_wait_time • rej_curs_blk • rem_cons_in • rem_cons_in_exec • rollback_sql_stmts • rows_deleted • rows_inserted • rows_read • rows_selected • rows_updated

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			• rows_written • sec_logs_allocated • select_sql_stmts • sort_heap_allocated • sort_overflows • static_sql_stmts • total_hash_joins • total_hash_loops • total_log_used • total_sec_cons • total_sort_time • total_sorts • uid_sql_stmts • uow_lock_wait_time • uow_log_space_used • x_lock_escals

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Network Devices and Services Monitors			
Firewall Servers			
App.	**Versions supported**	**Platforms Supported**	**Metrics**
Check Point Firewall-1	4.1 NG	All	• Dropped • Logged • Major • Minor • ModuleState • PointEvent • Product • Rejected
Load Balancers and Networking			
App.	**Versions supported**	**Platforms Supported**	**Metrics**
F5 BigIP	4.0	Not applicable	**F5 systems** • active • bitsin • bitsinHi32 • bitsout • bitsoutHi32 • concur • conmax • contot • cpuTemperature • droppedin • droppedout • fanSpeed • gatewayFailsafe • ifaddress • ifaddressTable • interface • loadbal • loadbalMode • loadBalTrap • member • memoryTotal • memoryUsed • mirrorenabled • nat • ndaddr • nodePing • nodeTimeout • pktsin • pktsinHi32 • pktsout • pktsoutHi32 • pool • poolMember

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			• portdeny • resetcounters • snat • snatConnLimit • snatTCPIdleTimeout • snatUDPIdleTimeout • sslProxy • sslProxyEntry • sslProxyTable • unitId • uptime • vaddress • virtualAddress • virtualServer • vport • watchDogArmed **F5 DNS** • cache • dataCenters • globals • hosts • lbDnsServs • lbDomains • lbRouters • summary
Cisco Works	2000	All Platforms	**SNMP data including the following categories and all of their metrics** • applConformance • applTable • assocTable • at • egp • egpNeighTable • host • icmp • interfaces • ip • rdbmsConformance • rdbmsObjects • snmp • system • tcp • udp

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Network Services			
App.	**Versions supported**	**Platforms Supported**	**Metrics**
Network Bandwidth	NA	Any device that supports an IF-MIB.	• Bytes in • Bytes out • Packet in • Packets out • Incoming discarded packets • Outgoing discarded packets • Incoming packets in error • Outgoing packets in error • Out queue length • % bandwidth utilization
SNMP	1.0, 2.0 3.0 md5 authentication	All Platforms	Any value available via SNMP MIBs for the device.
SNMP by MIB	1.0, 2.0 3.0 md5 authentication	All Platforms	Any value available via SNMP MIBs for the device.
SNMP Trap	1.0, 2.0	All Platforms	Receive SNMP traps for specific values
Formula (Bandwidth) Composite	NA	All	Performs an arithmetic calculation between two SNMP metrics (i.e. network bandwidth).
Ping	NA	NA	Host availability
DNS	NA	NA	Server accepting requests Address for specific name can be found
Port	NA	NA	Supports both TCP and UDP (UDP requires additional configuration) Connection to port Connection time
FTP	NA	All Platforms	Includes ability to do content matching and compare a file to last known contents, compare a file to saved contents (and reset) as well as the following: GET file transfer time GET file transfer rate PUT file transfer time PUT file transfer rate
Mail (SMTP)	NA	All Platforms	Round trip – email delivery time Send time Reciece time Contant match on received email
MAPI	Microsoft Exchange 2003 and 2007	Windows	Round trip – email delivery time

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Advanced Monitors			
App.	**Versions supported**	**Platforms Supported**	**Metrics**
Composite	NA	All	Number and percentage of items in the specified monitors and/or groups currently reporting an error, warning, or OK status. * Helpful for creating complex monitor alert logic
Database Query	Any database with a valid JDBC driver that supports SQL queries.	All	Varies by database. Used primiarily for checking database status and response time via a query. Can be used to gather metrics via SQL queries but does not have the power and flexibility of the Database Counter monitor (see below). * This monitor can be used to monitor DB2 on a mainframe as long as the appropriate JDBC listener is running on the mainframe.
Database Counter	Any database with a valid JDBC driver that supports SQL queries.	All	Varies by database. This monitor provides support for calculating deltas and rates between monitor runs and monitoring of multiple counters with a single monitor instance.
Directory	NA	All Platforms	# of files Total disk space used
File	NA	All Platforms	Size Age Content
LDAP	NA	All Platforms	Retrieve first entry(s) Simple Query False Query Advanced Query Authentication Content verification
Link Check	NA	NA	Checks internal and external links on a site
Log File	NA	NA	Alerts on matching text (eg error messages)
Microsoft Windows Dial-up	NA	NA	Confirms connection
Microsoft Windows Event Log	NA	NA	Provides alerts on new entries to the Windows events logs including the application, security, system and custom logs.
News (NNTP server)	NA	NA	Verifies connection Connection time # of articles in news group
Radius	NA	NA	Authentication request
Script	NA	NA	One of the most versatile SiteScope monitors. Can be used to execute scripts, pass parameters, read script output and perform content matches. Can function either locally or on a remote system.
XML Metrics	NA	NA	The XML Metrics Monitor operates like many other browsable monitors: it gathers information from a source, organizes it into a browsable tree structure, and allows the user to choose which items in the tree should be monitored. It works by requesting an XML file that is accessible by an URL. The XML metrics must be in a format where each metric is a separate, unique entity in the tree/leaf format. An optional XSL facility can help with formatting.

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Server Monitors			
App.	**Versions supported**	**Platforms Supported**	**Metrics**
CPU	NA	Windows, Unix, Linux	Measures CPU utilization
DHCP	NA	Windows, Unix, Linux	Measures if an IP address can be received
Disk Space	NA	Windows, Unix, Linux	Measures the percentage of disk space used
HP NonStop Event Log	All G-Series, H-Series, and J-Series NonStop RVUs	NonStop	match count – number of events matched by regexp records examined – number of events received from NonStop according to filter settings of monitor matches/min – matches rate records/min – records rate
IPMI	Any server with IPMI 1.5 support. HP and Dell servers tested in-house.	Windows, Linux	Measures various hardware metrics even if the operating system is unresponsive. The list of available counters is vendor dependant and usually includes CPU and system temperature, system fans RPM, CPU and system voltage and more.
Memory	NA	Windows, Unix, Linux	Measures virtual memory usage
Network	NA	Windows, Unix, Linux	Packet errors Throughput Active connections
Service	NA	Windows, Unix, Linux	Monitors services or processes locally or on remote systems. Monitors Windows services and processes and processes on Unix/Linux systems. Can be used to verify that specific services such as the following are running: Web server Mail FTP News Gopher Telnet
Web Server	NA	Windows, Unix, Linux	Measures Web Server Logs Hits Bytes Errors hits per minute bytes per minute

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URL Monitors			
App.	**Versions supported**	**Platforms Supported**	**Metrics**
URL	Supports Web pages created in HTTP versions 1.0 and 1.1	NA	The SiteScope URL Monitor is one of the most versatile and powerful Web monitoring tools available to Webmasters. Its core function is to attempt to reach a specified Web page to verify that it can be retrieved, but it can also be used to do the following: Check secure pages using SSL, 128 bit SSL, and client certificates Check for specific content on the retrieved Web page Check the Web page for change Check for specific error messages Check the Web page for a value Retrieve detailed download information Check XML
URL Content	Supports Web pages created in HTTP versions 1.0 and 1.1	NA	The SiteScope URL Content Monitor is a specialized variation of the URL Monitor that can match up to ten different values from the content of a specified URL. The matched values are displayed with the status of the monitor in the monitor group table and written to the monitor log.
URL List	Supports Web pages created in HTTP versions 1.0 and 1.1	NA	The SiteScope URL List Monitor is used to check a large list of URLs. This monitor is commonly used by web hosting providers to measure the availability and performance of their customer's web sites.
URL Sequence	Supports Web pages created in HTTP versions 1.0 and 1.1	NA	The SiteScope URL Sequence Monitor simulates a user's access across several pages. This is particularly useful for monitoring and testing multi-page e-commerce transactions and other interactive online applications.
Web Script	Supports scripts created in HP Virtual User Generator (VuGen) version 9.1 and earlier.	Web (Click and Script) Protocol Web (HTTP/HTML) Protocol	Each time the Web Script Monitor runs the VuGen script, it returns the transaction breakdown and performance data. The VuGen script also includes content match functionality, enabling you to check images, texts, links, and other areas of the Web site. In addition, the monitor's reported data can include the following measurements: • The amount of time needed to establish an initial connection with the Web server performing the transaction. • The amount of time taken to establish an SSL connection for HTTPS connections. • The time in milliseconds for the transaction to be run. • Whether the transaction passed or failed to connect and perform its required steps.

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			• Number of pages accessed when running the transaction. • Number of errors that occurred during the transaction run. The monitor can provide early indicators of the following performance issues: • Excessive connection or retry times. • Slow DNS resolution or other problems with the DNS server. • Problems along the network or whether the server is responsive to requests. • Delays or failures in secured or authorized connections. • Overall network quality. • Web server delays.

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EMS (Integration) Monitors			
App.	**Versions supported**	**Platforms Supported**	**Metrics**
Technology SNMP Trap Integration	SNMP traps version 1 and 2	NA	This monitor enables integration of alerts from other EMS systems to SiteScope using SNMP traps. In order for achieving that, one should configure the EMS system to send snmp traps to SiteScope on each alert. The monitor will produce event (using the config file) from each matched trap.
Netscout	nGenius Performance manager product	NA	This monitor enables integration of alerts from Netscout nGenius Performance manager product to SiteScope.
Technology Web Service Integration	NA	NA	This monitor enables integration of alerts from other EMS systems to SiteScope using soap. In order for achieving that, one should implement client which will call SiteScope web service API to report events/metrics. The monitor will produce event (using the config file) from each matched call.
Technology Database Integration	Any database server that supports one of the JDBC drivers supplied with SiteScope or any third party JDBC driver that is placed in SiteScope's java libraries directory.	NA	This monitor retrieves data from any EMS database according to an SQL query configured by the user and is able to report that data to BAC as metrics or events depending on configuration files that is applied.
Technology Log File Integration		NA	The Technology Log File Integration Monitor is useful for automatically extracting data from log files and sending the data to HP Business Availability Center. For example, you can use this monitor to forward information from Hewlett Packard Network Node Manager to Business Availability Center.

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Web Services/SOA			
App.	**Versions supported**	**Platforms Supported**	**Metrics**
UDDI	UDDI 2.0 servers	NA	Availability and round trip response time.
Web Service	WSDL 1.2, SOAP 1.1	NA	Status and response time of SOAP over HTTP web services. Status values can be any of the following: • OK • unknown host name • unable to reach server • unable to connect to server • timed out reading • content match error • document moved • unauthorized • forbidden • not found • proxy authentication required • server error • not implemented • server busy

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Solution Templates

BEA WebLogic Application Server		
App.	**Versions supported**	**Platforms Supported**
BEA WebLogic *(Metrics may vary depending on what is installed on the app server).* *Requires separate purchase and license key to enable.*	6.x, 7.x, 8.x, 9.1, 9.2, 10.0	All

Host Operating System		
App.	**Versions supported**	**Platforms Supported**
Microsoft Windows	XP Pro, NT 4.0, 2000, 2003, 2008	Windows
Solaris	Solaris 2.7, 2.8, 2.9 and 5.10	All
AIX	AIX 5.2, 5.3	All
Linux	RedHat 7.x, 8.x, 9.x, Redhat Enterprise Linux 3.x AS and ES are supported.	All

HP Quality Center		
App.	**Versions supported**	**Platforms Supported**
HP Quality Center Application Server	9.2 10.0	Windows and UNIX
HP QTP License Server	N/A	Windows and all UNIX
HP Quality Center Server License Server	9.2 10.0	Windows and all UNIX

HP Service Manager		
App.	**Versions supported**	**Platforms Supported**
HP Service Manager	Service Manager 7.11	Windows and UNIX

IBM WebSphere Application Server		
App.	**Versions supported**	**Platforms Supported**
IBM WebSphere *(Metrics may vary depending on what is installed on the app server).* *Requires separate purchase and license key to enable.*	5.x, 6.0	All

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JBoss Application Server		
App.	**Versions supported**	**Platforms Supported**
JBoss AS	4.0.x, 4.2.x	All

Microsoft Active Directory		
App.	**Versions supported**	**Platforms Supported**
Microsoft Active Directory	Windows Server 2000 Windows Server 2003	Windows

Microsoft Exchange		
App.	**Versions supported**	**Platforms Supported**
Microsoft Exchange	Exchange 5.5 Exchange 2000 Exchange 2003 Exchange 2007	All

Microsoft IIS		
App.	**Versions supported**	**Platforms Supported**
Microsoft IIS	IIS 6.0 (2003)	Windows

Microsoft .NET		
App.	**Versions supported**	**Platforms Supported**
.NET CLR Data **ASP.NET** **ASP.NET Applications**	1.x, 2.x 1.x, 2.x 1.x, 2.x	Windows Windows Windows

Microsoft SQL Server		
App.	**Versions supported**	**Platforms Supported**
Microsoft SQL Server	SQL Server 2005, 2008	Windows

Oracle Database		
App.	**Versions supported**	**Platforms Supported**
Oracle Database	9i, 10g	Windows, Unix and Linux

SAP Application Server		
App.	**Versions supported**	**Platforms Supported**
SAP AS	SAP R/3 4.5B and above	Windows NT 4.0, Windows 2000, Linux and Solaris

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Siebel		
App.	**Versions supported**	**Platforms Supported**
Siebel App Server	6.3, 7.03, 7.04, 7.5.2, 7.5.3, 7.7, 8.0	Windows and Unix
Siebel Gateway Server	6.3, 7.03, 7.04, 7.5.2, 7.5.3, 7.7, 8.0	Windows and all Unix
Siebel Web Server	6.3, 7.03, 7.04, 7.5.2, 7.5.3, 7.7, 8.0	Windows and all Unix

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