

Default Performance Parameters for Service Modules

Sycros provides three ways to monitor the system resources. The first way is to monitor the performance information on the system itself. Default parameter list is provided, and the additional system parameter can be monitored with customization. The second method is to monitor the process information. The user needs to enter the process profile and criteria for the processes to be monitored. The third method is to monitor the log information from the systems, utility tools, and/or application programs. The user needs to define the log file and the search text for alert.

This paper provides the default parameter list and the description of the Unix server, Windows server, Oracle server, MS SQL server, and MS Exchange server.

1. Unix Parameter

Collector	Parameter	Unit
CPU	CPU I/O Wait	%
	CPU Run Queue	Count
	CPU Usage	%
	CPU Usage(Kernel)	%
	CPU Usage(User)	%
Disk	Disk I/O Busy	%
	Disk Stats	N/A
Filesystem	Filesystem Stats	N/A
	Filesystem Usage	%
Log	Log Status	Count
Memory	Memory Stats	N/A
	Memory Usage	%
	Page Space In	KB
	Page Space Out	KB
	Swap Usage	%
Network	Collision	%
	CRC Error	Count
	Packet In/Packet In Bytes	Count/KB
	Packet Out/Packet Out Bytes	Count/KB
Process	Process Count	Count
	Process Status	Count
	Zombie Process	Count
User	Logged User Info	N/A
	Users Logged In	Count

The Description of each parameter is as follows:

Asset (Currently Internally Accessible)

- ▶ Functions: Collects the asset information on Host, CPU, Memory, Disk, Filesystem and Network Interface.
- ▶ Unit: Not applicable

Collision

- ▶ Functions: Monitors on the network interfaces collision, and gets the average value by dividing the increased volume of collision during the polling period.
- ▶ Unit: %

CPU I/O Wait

- ▶ Functions: Monitors the CPU I/O Wait rate, and gets the average value by dividing the increased volume of CPU I/O Wait during the polling time, and then get the CPU I/O Wait by dividing this value by total increased volume of CPU.
- ▶ Unit: %

CPU Run Queue

- ▶ Functions: Monitors the number of queues on standby in the processor. Gets the average value by dividing the number of Run Queues occurred during the polling time by the Run Queue occurrence times.
- ▶ Unit: Count

CPU Usage

- ▶ Functions: Monitors the usage of CPU, and gets the average value by dividing the increased volume of CPU Kernel, CPU User, CPU I/O Wait during the polling time. Also gets the CPU Usage by dividing this value by total increased volume of CPU.
- ▶ Unit: %

CPU Usage(Kernel)

- ▶ Functions: Monitors the CPU Usage of Kernel Mode, and gets the average value by dividing the increased volume of CPU Kernel during the polling time. Also gets the CPU Usage (kernel) by dividing this value by total increased volume of CPU.
- ▶ Unit: %

CPU Usage(User)

- ▶ Functions: Monitors the CPU Usage of User Mode, and gets the average value by dividing the increased number of CPU User during the polling time. Also gets the CPU Usage (User) by dividing this value by total increased volume of CPU.
- ▶ Unit: %

CRC Error

- ▶ Functions: Monitors the number of CRC Errors generated in the network interface, and gets the volume of CRC Error increased during the polling time.
- ▶ Unit: Count

Disk I/O Busy

- ▶ Functions: Monitors the average busy rate of disk, and gets the average value by dividing the volume of Disk I/O Busy increased during the polling time by the time.
- ▶ Unit: %

Disk Stats

- ▶ Function: Acquires the statistical information of each disk.
- ▶ Unit: Not applicable

Filesystem Stats

- ▶ Function: Acquires the statistical information of file system.
- ▶ Unit: Not applicable

Filesystem Usage

- ▶ Functions: Monitors the usage of file system, and gets the usage of file system by total usages.
- ▶ Unit: %

Log Status

- ▶ Functions: Monitors if the specific string occurs in the recorded log file. When the alert state occurs, then the event is sent. The result of monitoring can not be displayed in the graphical form.
- ▶ Unit: Count

Logged User Info

- ▶ Function: Acquires the information of user logged in the system.
- ▶ Unit: Not applicable

Memory Stats

- ▶ Function: Acquires the statistical information of memory.
- ▶ Unit: Not applicable

Memory Usage

- ▶ Function: Monitors the usage of memory, and gets the usage by dividing the usage of memory by total usages.
- ▶ Unit: %

Packet In

- ▶ Functions: Monitors the number of packets entered in the network interface, and gets the number of packets entered during the polling time. Packet In parameter is executable only in the HP System.
- ▶ Unit: Count

Packet In Bytes

- ▶ Functions: Monitors the volume of packets entered in the network interface, and gets the average value by dividing the volume of packets entered during the polling time by the time.
- ▶ Unit: KB

Packet Out

- ▶ Functions: Monitors the number of packets sent to the network interface, and gets the number of packets displayed during the polling time. Packet Out parameter is executable only in the HP System.
- ▶ Unit: Count

Packet Out Bytes

- ▶ Functions: Monitors the volume of packets sent to the network interface, and gets the average value by dividing the volume of packets displayed during the polling time by the time.
- ▶ Unit: KB

Page Space In

- ▶ Functions: Monitors the number of pages, loaded in the actual memory, in the virtual memory when the Paging occurs. Then gets the average value by dividing the increased volume of Page Space In during the polling time by the time.
- ▶ Unit: KB

Page Space Out

- ▶ Functions: Monitors the volume of pages loaded from the actual memory to the virtual memory when the Paging occurs. Then gets the average value by dividing the volume of Page Space Out increased during the polling time by the time.
- ▶ Unit: KB

Process Count

- ▶ Function: Monitors the number of processes under execution in the system.
- ▶ Unit: Count

Process Status

- ▶ Function: Monitors the number of registered active processes. The event is triggered if needed, but the result won't be displayed in the graphical form.
- ▶ Unit: Count

Swap Usage

- ▶ Functions: Monitors the usage of Swap, and gets the usage by dividing the usage of Swap by total usages.
- ▶ Unit: %

Users Logged In

- ▶ Function: Monitors the number of users logged in the system.
- ▶ Unit: Count

Zombie Process

- ▶ Function: Monitors the number of Zombie processes.
- ▶ Unit: Count

2.Windows Parameter

Collector	Parameter	Unit
CPU	CPU Usage	%
Disk	Disk I/O Busy	%
	Disk Stats	N/A
Event	Application Event Log	N/A
	Security Event Log	N/A
	System Event Log	N/A
Filesystem	Filesystem Usage	%
Log	Log Status	Count
Memory	Memory Usage	%
	Pagefile Usage	%
	Page Space In	KB
	Page Space Out	KB
Network	Network Bytes Received	Byte
	Network Bytes Sent	Byte
Process	Failed SCM Process	Count
	Process Count	Count
	Process Status	Count

The description of each parameter is as follows:

Application Event Log

- ▶ Function: Displays the Application Event Log.
- ▶ Unit: Not applicable

Asset

- ▶ Function: Collects the asset information.
- ▶ Unit: Not applicable

CPU Usage

- ▶ Function: Monitors the usage of CPU.
- ▶ Unit: %

Disk I/O Busy

- ▶ Function: Monitors the average Busy rate of disk.
- ▶ Unit: %

Disk Stats

- ▶ Function: Acquires the statistical information of each disk.
- ▶ Unit: Not applicable

Failed SCM Process

- ▶ Functions: Monitors the number of stopped services which are registered as the automatic services in the system. Also sends the event only instead of displaying in the form of graph.
- ▶ Unit: Count

Filesystem Usage

- ▶ Function: Monitors the usage of file system.
- ▶ Unit: %

Intranet Status

- ▶ Functions: Monitors the loading time of login page and specific page. The Error event is sent if it takes longer than the predefined time, or when the page is not opened. The event is sent instead of displaying in the graphical form.
The URL Information to monitor is saved in the HOME/config/hostname_port/InetStat.dat file.

```
[Settings]
TimeOut=2000

[Authentication]
LoginUrl=http://knet.miraeasset.co.kr:80/KnowledgePlus/LoginAppProc2.asp
UserId=temp
Password=123456

[TestUrls]
Url01=http://knet.miraeasset.co.kr/KnowledgePlus/Portal/Home.asp
Url02=http://knet.miraeasset.co.kr/KnowledgePlus/Messenger/ReceiveMemo_check.asp
```

- ▶ Unit: Milliseconds

Log Status

- ▶ Functions: Monitors if the specific string occurs in the registered log file. The event is sent instead of displaying in the graphical form.
- ▶ Unit: Count

Mail Access Status

- ▶ Functions: Monitors the POP3 and SMTP Server status. The event is sent instead of displaying in the graphical form. The information for accessing the POP3 and SMTP Servers is saved in the \$HOME/config/hostname_port/MailStat.dat file. The time unit for the Time Out is in milliseconds.
- ▶ Unit: Not applicable.

```
[POP3]
Host=mail.miraeasset.com
Port=110
User Id=test
Password=123456
Time Out=2000
Retry=5

[SMTP]
Host=mail.miraeasset.com
Port=25
User Id=test
Password=123456
Time Out=2000
Retry=5
```

Memory Usage

- ▶ Function: Monitors the memory usage.
- ▶ Unit: %

Network Bytes Received

- ▶ Function: Monitors the volume of packets entered in the network interface.
- ▶ Unit: Byte

Network Bytes Sent

- ▶ Function: Monitors the volume of packets sent to the network interface.
- ▶ Unit: Byte

Page Space In

- ▶ Function: Monitors the volume of pages loaded from the actual memory to the virtual memory when the Paging occurs.
- ▶ Unit: KB

Page Space Out

- ▶ Function: Monitors the volume of pages loaded from the actual memory to the virtual memory when the Paging occurs.
- ▶ Unit: KB

Pagefile Usage

- ▶ Function: Monitors the usage of virtual memory.
- ▶ Unit: %

Process Count

- ▶ Function: Monitors the number of processes under execution in the system.
- ▶ Unit: Count

Process Status

- ▶ Functions: Monitors the number of registered processes under execution. Only the event is sent instead of displaying in the graphical form.
- ▶ Unit: Count

Scheduled Task Status

- ▶ Functions: Monitors the scheduled task not executed because of changed password. Only the event is sent instead of displaying in the graphical form.
- ▶ Unit: Count

Security Event Log

- ▶ Function: Displays the Security Event Log.
- ▶ Unit: Not applicable

System Event Log

- ▶ Function: Displays the System Event Log.
- ▶ Unit: Not applicable

3.Oracle

Parameter	Unit
Active Sessions	Count
Archive Log Space Usage	%
Background Dump Space Usage	%
Backup Tablespace	Count
Connection Status	Boolean
Lock Wait Sessions	Count
Server Errors	Count
Session Usage	%
Tablespace Usage Exceeds	Count
Wait Events	Count

The description of each parameter is as follows:

Active Sessions

- ▶ Function: Monitors the number of active sessions.
- ▶ Unit: Count

Archive Log Space Usage

- ▶ Function: Monitors the usage of archive destination file system. This parameter is activated only when the database is operated in the Archive Mode.
- ▶ Unit: %

Background Dump Space Usage

- ▶ Function: Monitors the usage of Background Dump Destination file system.
- ▶ Unit: %

Backup Tablespace

- ▶ Function: Monitors the number of table spaces under Online Backup.
- ▶ Unit: Count

Connection Status

- ▶ Function: Monitors if it is available to access to the Oracle server via a Local or Listener.
- ▶ Unit: Boolean

Lock Wait Sessions

- ▶ Function: Monitors the number of sessions causing the Lock Conflict.
- ▶ Unit: Count

Server Errors

- ▶ Function: Monitors the number of errors recorded in the Alert Log File.
- ▶ Unit: Count

Session Usage

- ▶ Function: Monitors the session usage. Session usage means the rate of currently accessed session against the session limit set to the Oracle Instance.
- ▶ Unit: %

Tablespace Usage Exceeds

- ▶ Function: Monitors if the usage of table space is bigger than the designated value or the size of biggest Free Extent is smaller than the designated size.
- ▶ Unit: Count

Wait Events

- ▶ Function: Monitors the number of Wait Events.
- ▶ Unit: Count

4. MS SQL Server

Collector	Parameter	Unit
Database Disk	Bytes Read	Byte
	Bytes Written	Byte
	Disk Reads	Count
	Disk Writes	Count
	IO Stall Wait	ms
Database Packet	Packet Sent	Count
	Packet Received	Count
	Packet Errors	Count
Log	Tx Log Size	MB
	Tx Log Usage	%
Procedure Cache	Procedure Cache Active	KB
	Procedure Cache Size	KB
	Procedure Cache Used	KB
Server Disk	Server Disk Reads	Count
	Server Disk Writes	Count
	Server Disk Errors	Count
Miscellaneous Server/User	Active Tx Count	Count
	Active User Process	N/A
	CPU Usage	%
	Failed Batch Jobs	Count
	Lock Counts	Count
	Memory Used	KB
	Server Process	N/A
	Server Status	Boolean
	Storage Report	N/A
	User Connections	Count

The description of each parameter is as follows:

Active Tx Count

- ▶ Function: Monitors the number of transactions activated by the SQL Server.
- ▶ Unit: Count

Active User Process

- ▶ Function: Shows the active process information of all processes of SQL Server.

Items	Descriptions
SPID	Indicates the SQL Server Process ID.
Status	Displays the process status such as execution and pause.
Login	Indicates the login name.
Hostname	Indicates the workstation name.
Blocked	Indicates the system process ID for blocking the process.
DB Name	Indicates the name of database currently used by the process.
Command	Indicates the currently executed command.
CPU Time	Indicates the cumulative CPU Time of process.
Physical IO	Indicates the cumulative disk reading and writing time of process.
Last Batch	Indicates the time when the client process classes the 'remote save' procedures or executes the last execute door .
Program Name	Indicates the name of application program

- ▶ Unit: Not applicable

Bytes Read

- ▶ Function: Monitors the disk read capacity for each database of SQL Server using the FN_VIRTUALFILESTATS.
- ▶ Unit: Byte

Bytes Written

- ▶ Function: Monitors the disk write capacity for each database of SQL Server using the FN_VIRTUALFILESTATS.
- ▶ Unit: Byte

CPU Usage

- ▶ Function: Monitors the CPU Usage occupied by the SQL Server. The CPU Usage means the rate between total CPU times and CPU time used by the SQL Server Process.
- ▶ Unit: %

Disk Reads

- ▶ Function: Monitors the disk read times for each database of SQL Server using the FN_VIRTUALFILESTATS.
- ▶ Unit: Count

Disk Writes

- ▶ Function: Monitors the disk write times for each database of SQL Server using the FN_VIRTUALFILESTATS.
- ▶ Unit: Count

Failed Batch Jobs

- ▶ Function: Monitors the failed batch jobs of SQL Server by analyzing the batch job log of SQL Agent.
- ▶ Unit: Count

IO Stall Wait

- ▶ Functions: Monitors the disk IO Wait time for each database of SQL Server using the FN_VIRTUALFILESTATS. Also gets the IO Wait time of all sub databases except the log file.
- ▶ Unit: ms

Lock Counts

- ▶ Functions: Monitors the number of Lock occurred for each database of SQL Server. Gets the number of Locks occurred for each database by joining the Syslockinfo (system Lock information) and spt_value (Lock mode information).
- ▶ Unit: Count

Memory Used

- ▶ Function: Monitors the used amount of memory occupied by the SQL Server using the Performance Data Helper Library.
- ▶ Unit: KB

Packet Errors

- ▶ Functions: Monitors the number of occurred Packet Errors of whole SQL Server using the Performance Data Helper Library, and gets the difference between the previously value and the number of Packet Errors after the SQL Server is activated.
- ▶ Unit: Count

Packet Received

- ▶ Function: Monitors the Packet receiving-times of all SQL Servers using the Performance Data Helper Library. Also gets the difference between the previous value and the Packet receiving-times after the SQL Server is activated.
- ▶ Unit: Count

Packet Sent

- ▶ Functions: Monitors the Packet sending times of all SQL Servers using the Performance Data Helper Library. Also gets the difference between the previous value and the Packet sending times after the SQL Server is activated.
- ▶ Unit: Count

Procedure Cache Active

- ▶ Function: Monitors the active Procedure Cache volume of SQL Server using the Performance Data Helper Library. The Procedure Cache is used when storing the Stored Procedure. The Volume of active Procedure Cache is the capacity of Procedure Cache to store the stored procedure under execution.
- ▶ Unit: KB

Procedure Cache Size

- ▶ Function: Monitors the Procedure Cache size of SQL Server using the Performance Data Helper Library. The Procedure Cache is used when storing the Stored Procedure.
- ▶ Unit: KB

Procedure Cache Used

- ▶ Function: Monitors the Procedure Cache usage of SQL Server using the Performance Data Helper Library. The Procedure Cache is used as the Cache when storing the Stored Procedure.
- ▶ Unit: KB

Server Disk Errors

- ▶ Functions: Monitors the occurred IO Errors of all SQL Servers using the Performance Data Helper Library. Also gets the difference between the previous value and the number of disk Read/Write errors after the SQL Server is activated.
- ▶ Unit: Count

Server Disk Reads

- ▶ Functions: Monitors the disk-read times of all SQL Servers using the Performance Data Helper Library. Also gets the difference between the previous value and the disk read times after the SQL Server is activated.
- ▶ Unit: Count

Server Disk Writes

- ▶ Functions: Monitors the disk write times of all Servers using the Performance Data Helper Library. Also gets the difference between the previous value and the disk write times after the SQL Server is activated.
- ▶ Unit: Count

Server Process

- ▶ Function: Shows all process information of SQL Server.

Items	Descriptions
SPID	Indicates the SQL Server Process ID.
UID	Indicates the ID of user executing the command.
Login	Indicates the login name.
DBID	Indicates the ID of database currently used by the process.
DB Name	Indicates the name of database currently used by the process.
Blocked	Indicates the process ID of block process.
CPU Time	Indicates the cumulative CPU Time of process.
Physical IO	Indicates the cumulative disk reading and writing time of process.
Memory Usage	Indicates the number of pages existing in the procedure cash assigned to the selected process.
Login Time	Indicates the time when the client process logs in the

	server.
Last Batch	Indicates the time when the client process classes the remote save procedures or executes the last execute door.
Open Transaction	Indicates the number of transactions opened by the process.
Status	Displays the process statuses such as execution and pause.
Hostname	Indicates the name of wok station.
Program Name	Indicates the name of application program.
Command	Indicates the currently executed command.
Net Address	Indicates the identifier assigned to the network interface card in each user's workstation.

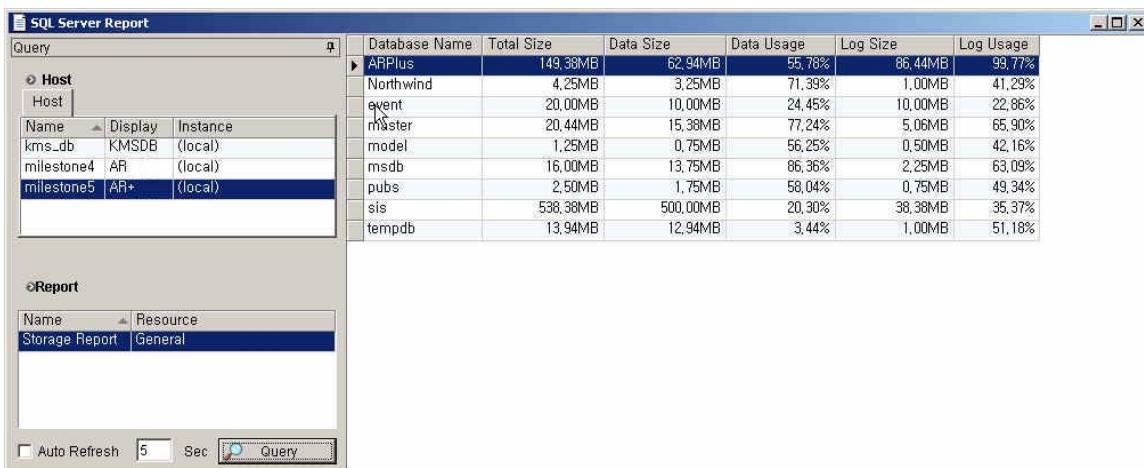
- ▶ Unit: Not applicable

Server Status

- ▶ Function: Monitors the operating status of SQL Server. Also detects the abnormal operation according to SQL Server Service operation status.
- ▶ Unit: Boolean

Storage Report

- ▶ Function: Provides the report on the size and usage of each SQL Server database and Log spaces.
- ▶ Unit: Not applicable (table displayed from the SQL server menu)



Database Name	Total Size	Data Size	Data Usage	Log Size	Log Usage
ARPlus	149,38MB	62,94MB	55,78%	86,44MB	99,77%
Northwind	4,25MB	3,25MB	71,39%	1,00MB	41,29%
event	20,00MB	10,00MB	24,45%	10,00MB	22,86%
master	20,44MB	15,38MB	77,24%	5,06MB	65,90%
model	1,25MB	0,75MB	56,25%	0,50MB	42,16%
msdb	16,00MB	13,75MB	86,36%	2,25MB	63,09%
pubs	2,50MB	1,75MB	58,04%	0,75MB	49,34%
sis	538,38MB	500,00MB	20,30%	38,38MB	35,37%
tempdb	13,94MB	12,94MB	3,44%	1,00MB	51,18%

Tx Log Size

- ▶ Function: Monitors the Transaction Log size for each database of SQL Server, and gets the size of actual space used for the log using the log size of DBCC QLPERF(LOGSPACE).
- ▶ Unit: MB

Tx Log Usage

- ▶ Function: Monitors the usage of Transaction Log for each database of SQL Server, and gets the size of actual space used for the log using the log size of DBCC QLPERF(LOGSPACE).
- ▶ Unit: %

User Connections

- ▶ Function: Monitors the number of users connected to the SQL Server. The Performance Data Helper Library is used.
- ▶ Unit: Count

5. MS Exchange Server

Parameter	Unit
IS User Count	Count
IS VM Largest Block Size	MB
Messages Delivered	Count
Messages Sent	Count
Receive Queue Size	Count
Send Queue Size	Count
Server Status	Boolean
SMTP Local Queue Length	Count
Store Usage	%
WebService Current Connections	Count
ASP Requests Executing*	Count
ASP Requests Queued*	Count

* Externally definable parameter

The description of each parameter is as follows:

IS User Count

- ▶ Function: Monitors the number of users connected to the Information Store.
- ▶ Unit: Count

IS VM Largest Block Size

- ▶ Functions: Monitors the largest memory block size of Information Store. Also gets the Free Size Value of Virtual Memory.
- ▶ Unit: MB

Messages Delivered

- ▶ Functions: Monitors the number of mails received by the Exchange Server. Gets the number of Mail Box/Message Delivered using the Performance Data Helper Library. Compare the number of Mail Box/Message Delivered and the previous number, and get the number of the received mails.
- ▶ Unit: Count

Messages Sent

- ▶ Functions: Monitors the number of mails sent by the Exchange Server. Compares the number of Mail Box/Message Sent with the previously polled number from the Performance Data Helper Library, and get the number of mails sent.
- ▶ Unit: Count

Receive Queue Size

- ▶ Functions: Monitors the number of messages on standby for receiving in the Exchange Server. The queue size of Mail Box/Receive is calculated using the Performance Data Helper Library. The value of this entry is the size of queue on standby to receive the mail.
- ▶ Unit: Count

Send Queue Size

- ▶ Function: Monitors the number of messages on standby for sending in the Exchange Server. The queue size of Mail Box/Send is calculated using the Performance Data Helper Library. The value of this entry is the size of queue on standby to send the mail.
- ▶ Unit: Count

Server Status

- ▶ Functions: Monitors the Exchange Server operation status. Also monitors the operating status of essential services provided by the Exchange Server such as Microsoft Exchange Information Store, Microsoft Exchange System Attendant and Microsoft Exchange POP3.
- ▶ Unit: Boolean

SMTP Local Queue Length

- ▶ Function: Monitors the number of messages on standby for the delivery to the Exchange Information Store.
- ▶ Unit: Count

Store Usage

- ▶ Function: Monitors the utilization of Information Store which is being used as the storage for the Exchange Server. The utilization of Information Store is the ratio of the used space of the size of the hard disk drive for the Information Store.
- ▶ Unit: %

Web Service Current Connections

- ▶ Function: Monitors the number of users connected to the Web Service.
- ▶ Unit: Count

* The parameters listed below need to be defined as an externally executable file at Parameter Management.

ASP Requests Executing

- ▶ Function: Monitors the number of requests currently served at Active Server Pages service. Shows the usage level of the Web mail clients.
- ▶ Unit: Count
- ▶ Location of Externally executable file: \$HOME\Custom\Exch_ASP_Executing.bat

ASP Requests Queued

- ▶ Function: Monitors the number of requests waiting in the queue at Active Server Pages service. Shows the usage level of the web mail clients.
- ▶ Unit: Count
- ▶ Location of Externally executable file: \$HOME\Custom\Exch_ASP_Queued.bat

6. IIS Performance Parameters

Parameter	Unit
CpuHigh	%
HttpConnections	Count
MemoryHigh	KB
ServiceDown	Boolean
ServiceDownIISAdmin	Boolean
URLConnectivity	Boolean

CpuHigh

- ▶ Function: Monitors the CPU Usage of IIS server.
- ▶ Unit: %

HttpConnections

- ▶ Function: Monitors the number of connected users to Web Server.
- ▶ Unit: Count

MemoryHigh

- ▶ Function: Monitors the memory usage of the process on IIS Server.
- ▶ Unit: KB

ServiceDown

- ▶ Function: Monitors Up/Down status of the service on IIS Server.
- ▶ Unit: Boolean

ServiceDownIISAdmin

- ▶ Function: Monitors Up/Down status of IIS Admin on IIS Server.
- ▶ Unit: Boolean

URLConnectivity

- ▶ Function: Monitors the connectivity to specific URL.
- ▶ Unit: Boolean

7. Domino Notes Performance Parameter

Parameter	Unit
CPUUtil	%
InetPortCheck	Boolean
MemBusy	MB
PortHealth	%
ProcessDown	Boolean
ServiceDown	Boolean
UserSessions	Count

CPUUtil

- ▶ Function: Monitors the CPU Usage of Domino Server.
- ▶ Unit: %

InetPortCheck

- ▶ Function: Monitors the Internet Protocol ports used by Domino Server.
- ▶ Unit: Boolean

MemBusy

- ▶ Function: Monitors the memory usage of Domino Server.
- ▶ Unit: MB

PortHealth

- ▶ Function: Monitors port status of a specific port on the system.
- ▶ Unit: %

ProcessDown

- ▶ Function: Monitors Up/Down status of Domino Process.
- ▶ Unit: Boolean

ServerDown

- ▶ Function: Monitors Up/Down status of Domino Server.
- ▶ Unit: Boolean

UserSessions

- ▶ Function: Monitors the number of users connected to Domino Server.
- ▶ Unit: Count

8. Biz Talk Performance Parameter

Parameter	Unit
ServerDown	Boolean
ServiceDownBase	Boolean
ServiceDownBTSGroup	Boolean
ServiceDownENTSSO	Boolean
ServiceDownSharePoint	Boolean
ServiceDownRuleEngine	Boolean

Documents Received	Count
Documents Received/Sec	Count
Documents Processed	Count
Documents Processed/Sec	Count
Documents Suspended	Count
Run Orchestrations	Count
Idle Orchestrations	Count
Orchestrations Suspended	Count
Orchestrations Dehydrated	Count
Orchestrations Discarded	Count
Orchestrations Created	Count
Orchestrations Created/Sec	Count
Orchestrations Completed	Count
Orchestrations Completed/Sec	Count
Megabytes allocated private memory	MB
Megabytes allocated virtual memory	MB
GetCredentials	Count
GetCredentials/Sec	Count
IssueTicket	Count
IssueTicket/Sec	Count
RedeemTichet	Count
RedeemTicket/Sec	Count
Validate And redeem Ticket	Count
Validate And redeem Ticket/Sec	Count
Credential Cache Size	Count
Available Mbytes	MB
Page Fault/Sec	Count
Disk Time	%
Context Switches/Sec	Count
Process Queue Length	Count
Total Failed Batches	Count
Total Failed Events	Count
Batches being processed	Count
Batches Committed	Count
Events being processed	Count
Events Committed	Count
Records being processed	Count
Records Committed	Count
Total Batches	Count
Total Events	Count
Host Queue – Length	Count
Host Queue – Instance State Msg Refs - Length	Count
Host Queue – Suspended Msg – Length	Count
Host Queue – Number of Instances	Count
SendPorts	Boolean
ReceivePorts	Boolean
EventInfo	Boolean

ServerDown

- ▶ Function: Monitors the operational status of BizTalk Server by checking the operational staus(Up/Down) of the required services -- BizTalk Base EDI Service, BizTalk Service BizTalk Group, Enterprise Single Sign On Service, SharePoint Timer Service, and Rule Engine Update Service.
- ▶ Unit: Boolean

ServiceDownBase

- ▶ Function: Monitors Up/Down status of BizTalk Base EDI Service.

▶ Unit: Boolean

ServiceDownBTSGroup

- ▶ Function: Monitors Up/Down status of BizTalk Service Biz Talk Group.
- ▶ Unit: Boolean

ServiceDownENTSSO

- ▶ Function: Monitors Up/Down status of Enterprise Single Sign On Service.
- ▶ Unit: Boolean

ServiceDownSharePoint

- ▶ Function: Monitors Up/Down status of SharePoint Timer Service.
- ▶ Unit: Boolean

ServiceDownRuleEngine

- ▶ Function: Monitors Up/Down status of Rule Engine Updates Service.
- ▶ Unit: Boolean

Documents Received

- ▶ Function: Monitors the number of documents that BizTalk Server received.
- ▶ Unit: Count

Documents Received/Sec

- ▶ Function: Monitors the number of documents received per second by BizTalk Server.
- ▶ Unit: Count

Documents Processed

- ▶ Function: Monitors the number of documents processed through pipeline.
- ▶ Unit: Count

Documents Processed/Sec

- ▶ Function: Monitors the number of documents processed per second through pipeline.
- ▶ Unit: Count

Documents Suspended

- ▶ Function: Monitors the number of documents temporarily suspended of service after receiving but before sending.
- ▶ Unit: Count

Run Orchestrations

- ▶ Function: Monitors Orchestraions Instance (active sending port and number of Orchestration) after the start of the application program.
- ▶ Unit: Count

Idle Orchestrations

- ▶ Function: Monitors idle Orchestraions Instance (idle sending port and number of Orchestration) after the start of the application program.
- ▶ Unit: Count

Orchestrations Suspended

- ▶ Function: Monitors Orchestraitiion Instance(sending port, receiving port, number of Orchestrations) temporarily suspended after the start of the application program.
- ▶ Unit: Count

Orchestrations dehydrated

- ▶ Function: Monitors the number of Orchestration Instance in idle state, message waiting state, or waiting state for Biz Talk run-time handling.
- ▶ Unit: Count

Orchestrations discarded

- ▶ Function: Monitors the number of Orchestrations discarded since the start of the application program.
- ▶ Unit: Count

Orchestrations created

- ▶ Function: Monitors the number of Orchestrations created since the start of the application program.
- ▶ Unit: Count

Orchestrations created / Sec

- ▶ Function: Monitors the number of Orchestrations created per second since the start of the application program.
- ▶ Unit: Count

Orchestrations completed

- ▶ Function: Monitors the number of Orchestration completed since the start of the application program.
- ▶ Unit: Count

Orchestrations completed / Sec

- ▶ Function: Monitors the number of Orchestration completed per second since the start of the application program.
- ▶ Unit: Count

Megabytes allocated private memory

- ▶ Function: Monitors the private memory assigned to Orchestration.
- ▶ Unit: MB

Megabytes allocated virtual memory

- ▶ Function: Monitors the virtual memory assigned to Orchestration.
- ▶ Unit: MB

GetCredentials

- ▶ Function: Monitors the number of accesses to Enterprise Single Sign On(SSO).
- ▶ Unit: Count

GetCredentials / Sec

- ▶ Function: Monitors the number of accesses per second to Enterprise Single Sign On(SSO).
- ▶ Unit: Count

IssueTicket

- ▶ Function: Monitors the number of tickets issued by Enterprise Single Sign On(SSO).
- ▶ Unit: Count

IssueTicket / Sec

- ▶ Function: Monitors the number of tickets issued per second by Enterprise Single Sign On(SSO).
- ▶ Unit: Count

RedeemTicket

- ▶ Function: Monitors the number of tickets redeemed by Enterprise Single Sign On(SSO).
- ▶ Unit: Count

RedeemTicket / Sec

- ▶ Function: Monitors the number of tickets redeemed per second by Enterprise Single Sign On(SSO).
- ▶ Unit: Count

Validate And Redeem Ticket

- ▶ Function: Monitors the number of tickets validated and redeemed by Enterprise Single Sign On(SSO).
- ▶ Unit: Count

Validate And Redeem Ticket / Sec

- ▶ Function: Monitors the number of tickets validated and redeemed per second by Enterprise Single Sign On(SSO).
- ▶ Unit: Count

Credential Cache size

- ▶ Function: Monitors the number of qualification certification stored in cache to get credential from Enterprise Single Sign On(SSO).
- ▶ Unit: Count

Available Mbytes

- ▶ Function: Monitors the available memory to have BizTalk Server efficiently utilized.
- ▶ Unit: MB

Page Fault / Sec

- ▶ Function: Monitors the Page Faults per second of the system.
- ▶ Unit: Count

Disk Time

- ▶ Function: Monitors the time spent in comparison percentage for disk reading and writing of the system.
- ▶ Unit: %

Context Switches / Sec

- ▶ Function: Monitors Context Switches per second of the system.
- ▶ Unit: Count

Process Queue Length

- ▶ Function: Monitors the process queue length of the system.
- ▶ Unit: Count

Total Failed Batches

- ▶ Function: Monitors the number of failed batches by TDDS(Tracking Data Decode Service) at MessageBoxDB. The MessageBoxDB stores all the messages processed by BizTalk Server Application.
- ▶ Unit: Count

Total Failed Events

- ▶ Function: Monitors the number of failed events processed by TDDS(Tracking Data Decode Service) at MessageBoxDB. The MessageBoxDB stores all the messages processed by BizTalk Server Application.
- ▶ Unit: Count

Batches being processed

- ▶ Function: Monitors the number of batches which SQL transaction (Things modifying MessageBoxDB) processes.
- ▶ Unit: Count

Batches Committed

- ▶ Function: Monitors the number of committed batches at MessageBoxDB.
- ▶ Unit: Count

Events being processed

- ▶ Function: Monitors the number of events being processed by SQL transaction (Things modifying MessageBoxDB).
- ▶ Unit: Count

Events Committed

- ▶ Function: Monitors the number of committed events at MessageBoxDB.
- ▶ Unit: Count

Records being processed

- ▶ Function: Monitors the number of records being processed by SQL transaction (Things modifying MessageBoxDB).
- ▶ Unit: Count

Records Committed

- ▶ Function: Monitors the number of committed records at MessageBoxDB.
- ▶ Unit: Count

Total Batches

- ▶ Function: Monitors the total number of batches processed by TDDS(Tracking Data Decode Service) at MessageBoxDB. The MessageBoxDB stores all the messages processed by BizTalk Server Application.
- ▶ Unit: Count

Total Events

- ▶ Function: Monitors the total number of events processed by TDDS(Tracking Data Decode Service) at MessageBoxDB. The MessageBoxDB stores all the messages processed by BizTalk Server Application.
- ▶ Unit: Count

Host Queue - Length

- ▶ Function: Monitors the total number of message at MessageBoxDB. The messageBoxDB stores all the messages processed by BizTalk Server Application.
- ▶ Unit: Count

Host Queue - Instance State Msg Refs - Length

- ▶ Function: Monitors the number of messages referenced by MessageBoxDB. The messageBoxDB stores all the messages processed by BizTalk Server Application.
- ▶ Unit: Count

Host Queue - Suspended Msg - Length

- ▶ Function: Monitors the number of suspended messages at MessageBoxDB. The messageBoxDB stores all the messages processed by BizTalk Server Application.
- ▶ Unit: Count

Host Queue - Number of Instances

- ▶ Function: Monitors the number of instances using MessageBoxDB in BizTalk Server Application.
- ▶ Unit: Count

SendPorts

- ▶ Function: Monitors the status of SendPorts of BizTalk Server.
- ▶ Unit: Boolean

ReceivePorts

- ▶ Function: Monitors the status of ReceivePorts of BizTalk Server.
- ▶ Unit: Boolean

EventInfo

- ▶ Function: Monitors the contents processed by BizTalk Server, errors resulted from operation, and information on events.
- ▶ Unit: Boolean

9. MSCS(MicroSoft Cluster Service) Performance Parameter

Parameter	Unit
GroupDown	Boolean
NetInterfaceDown	Boolean
NetworkDown	Boolean
NodeDown	Boolean
GroupOwnerChange	Boolean
ResourceDown	Boolean
ResourceOwnerChange	Boolean

GroupDown

- ▶ Function: Monitors whether Online Group of MS Clustering is up or down.
- ▶ Unit: Boolean

NetInterfaceDown

- ▶ Function: Monitors whether Network Interface of MS Clustering is down or not.
- ▶ Unit: Boolean

NetworkDown

- ▶ Function: Monitors whether Network of MS Clustering is down or not.
- ▶ Unit: Boolean

NodeDown

- ▶ Function: Monitors whether the node of MS Clustering is down or not.
- ▶ Unit: Boolean

GroupOwnerChange

- ▶ Function: Monitors whether the owner of MS Clustering is changed or not.
- ▶ Unit: Boolean

ResourceDown

- ▶ Function: Monitors the status of Online Resource of MS Clustering.
- ▶ Unit: Boolean

ResourceOwnerChange

- ▶ Function: Monitors whether the ownership of MS Clustering is changed or not.
- ▶ Unit: Boolean

10. Active Directory Performance Parameter

Parameter	Unit
Kerberos Authentications	Count
NTLM Authentications	Count
DCHealthMonitor	%
GlobalCatalogChange	Boolean

Kerberos Authentications

- ▶ Function: Monitors the number of Kerberos authentications per second.
- ▶ Unit: Count

NTLM Authentications

- ▶ Function: Monitors the number of NTLM authentications.
- ▶ Unit: Count

DCHealthMonitor

- ▶ Function: Monitors the usage rate of System CPU, Memory and Disk, and the CPU usage period and Working Set Size of LSASS process.
- ▶ Unit: %

GlobalCatalogChange

- ▶ Function: Monitors the modification of Global Catalog of Active Directory forest.
- ▶ Unit: Boolean

* Important Notice: The default parameter list may change anytime without the knowledge of users, and Sycros does not hold responsibility for creating, deleting, and updating any default parameter without the knowledge of users.