



Tools Drawer

- [Real Time Monitoring Tool, on page 1](#)

Real Time Monitoring Tool

For Cisco Unified Intelligence Center, Live Data, and Cisco Identity Service (Cisco IdS), download the Real Time Monitoring Tool (RTMT) from the Cisco Unified Intelligence Center Administration page (**Tools > RTMT Plugin Download**).

Live Data and the Cisco IdS do not host the RTMT installer. For this reason, always connect to the Cisco Unified Intelligence Center Server and sign in to the Administration page to download the RTMT installer. You can, however, run the same RTMT client to connect to any of the Cisco Unified Intelligence Center, Live Data, or Cisco IdS servers (standalone or coresident).

RTMT runs as a client-side application. You can install RTMT on a Windows workstation or a Linux machine. RTMT is cluster-aware. RTMT provides critical service and performance monitoring (perfmon), trace/log collection and viewing, and Alert Management on the node for the IP address you request at launch. RTMT does not provide the status of all critical applications on all the nodes at the same time.

Use RTMT to:

- Monitor the health of the system by generating email alerts for objects whose values go above or below a threshold
- Collect and view traces
- View syslog messages
- Monitor performance counters

RTMT has extensive online help. Refer to it for information on alerts, schedule collection, performance monitoring, and collecting and downloading tracing and logging data.

Launch RTMT

Procedure

- Step 1** Click **Tools > RTMT Plugin Download**.

- Step 2** On the download page:
- Select the **Windows** platform.
 - Click **Download**.
 - Run the file or save the **CuicServRtmtPlugin** executable file and then run it from the saved location.
 - Follow the prompts and click the buttons on the installation screens.

- Step 3** To launch:
- Launch RTMT from the desktop icon.

Figure 1: RTMT Desktop Icon



- In the **Host IP Address** field, enter the IP address for the node you want to monitor.
- Accept the default port (8443).
- Check **Secure Connection**. You see an error if the Host IP Address is not found or there is no network connection.
- Click **Yes** to accept the certificate.
- Enter the **User Name** and **Password** for a Super User. (Only a Super User can install RTMT.)
- Click **OK** to accept the default configuration.

RTMT Client Support Services

RTMT uses the following services/servlets:

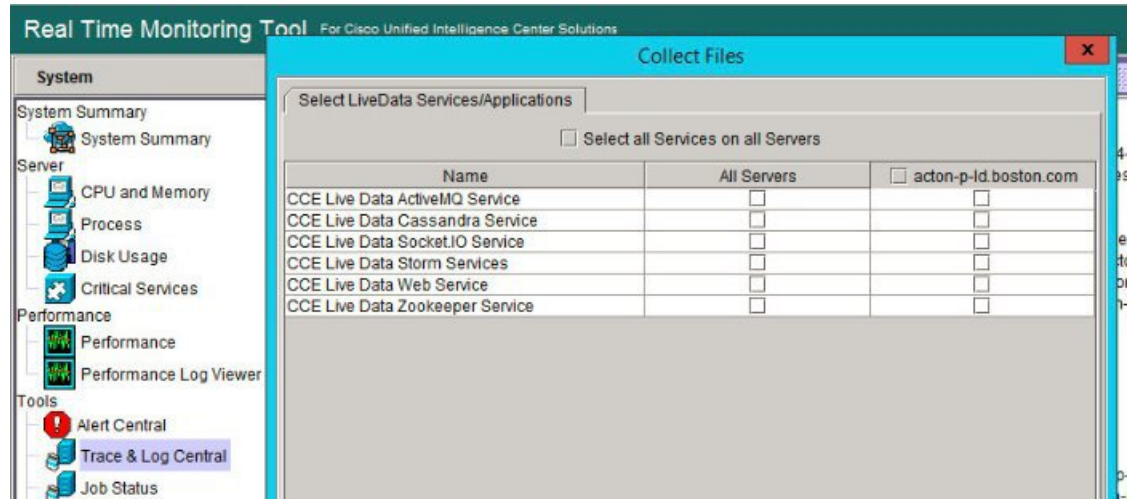
- Cisco AMC service
- Cisco CallManager Serviceability RTMT
- Cisco RIS Data Collector
- Cisco Tomcat Stats Servlet
- Cisco Trace Collection Service
- Cisco Log Partition Monitoring Tool
- Cisco SOAP-Real_Time Service APIs
- Cisco-SOAP-Performance Monitoring APIs
- Cisco RTMT Reporter Servlet

RTMT Integration

Tracing and Logging

To expose tracing and logging information go to RTMT **Tools > Trace & Log Central** . The RTMT tool gives you the ability to browse through a trace file and supports on-demand or scheduled downloading of the file.

Figure 2: RTMT TraceLog for Live Data



Critical Services

To expose service information go to RTMT **Server** > **Critical Services**.

Figure 3: RTMT Critical Services



Alerts

To expose Alert Central go to RTMT **Tools** > **Alert Central** .

Figure 4: RTMT Alerts

Alert Name	Enabled	In Safe Range	Alert Action	Last Alert R
AuthenticationFailed	Enabled	Yes	Default	N/A
CiscoDRFFailure	Enabled	N/A	Default	N/A
CoreDumpFileFound	Enabled	N/A	Default	N/A
CpuPegging	Enabled	Yes	Default	N/A
CriticalServiceDown	Enabled	No	Default	04:06:28 PM 04/2
DBChangeNotifyFailure	Enabled	Yes	Default	N/A
DBReplicationFailure	Enabled	Yes	Default	N/A
DBReplicationTableOutOfSync	Enabled	N/A	Default	N/A
HardwareFailure	Enabled	N/A	Default	N/A
LogFileSearchStringFound	Enabled	N/A	Default	N/A
LogPartitionHighWaterMarkExceeded	Enabled	N/A	Default	N/A
LogPartitionLowWaterMarkExceeded	Enabled	N/A	Default	N/A
LowActivePartitionAvailableDiskSpace	Enabled	Yes	Default	N/A
LowAvailableVirtualMemory	Enabled	Yes	Default	N/A
LowInactivePartitionAvailableDiskSpace	Enabled	Yes	Default	N/A
LowSwapPartitionAvailableDiskSpace	Enabled	Yes	Default	N/A

Perfmon and Statistics

To expose perfmon information and statistics go to the RTMTTools > Alert Central.

Figure 5: RTMT Performance Interface

Performance Object
acton-p-Id
Cisco LDAP Directory
Cisco Tomcat Connector
Cisco Tomcat JVM
Cisco Tomcat Web Application
DB Change Notification Client
DB Change Notification Server
DB Change Notification Subscriptions
DB Local_DSN
DB User Host Information Counters
DBPerformanceInfo
Enterprise Replication DBSpace Monitors
Enterprise Replication Perfmon Counters
Intelligence Center General Information section
Intelligence Center JVM Statistics
Intelligence Center License Information section
Intelligence Center System Condition Table

The RTMT Interface

The following RTMT system monitoring objects are available in the left pane of the RTMT page:

- **System Summary**

Displays information on Virtual Memory usage, CPU usage, Common Partition usage, and the alert history log.

- **Server**

Server objects are:

- **CPU and Memory** - Displays information on Virtual memory usage and CPU usage for the server.
- **Process** - Displays information on the processes running on the server.
- **Disk Usage** - Displays information on the disk usage on the server.
- **Critical Services** - Displays the name of the critical service, the status (whether the service is up, down, activated, stopped by the administrator, starting, stopping, or in an unknown state), and the elapsed time during which the services have existed in a particular state for the server or for a particular server in a cluster (if applicable).

The Cisco Unified Intelligence Center services are listed under the **Intelligence Center** tab. The Live Data and Cisco IdS services are listed, along with the System services, under the **System** tab.

- **Performance**

Performance objects are:

- **Performance** - Performance monitoring allows you to monitor performance counters related to the Unified Intelligence Center server. You can continuously monitor a set of preconfigured objects and receive notification in the form of an email message. You can associate counter threshold settings to alter notification. Up to six perfmon counters in one chart for performance comparisons can be displayed. Performance queries can be used to add a counter to monitor. You can also save and restore settings, such as counters being monitored, threshold settings, and alert notifications, for customized troubleshooting tasks.
- **Performance Log Viewer** - Displays data for counters from perfmon CSV log files in a graphical format.

- **Tools**

Tools objects are:

- **Alert Central** - Displays the history and status of every alert in the system. Click the **Intelligence Center** tab to see Unified Intelligence Center alerts, including those related to Cisco IdS.
- **Trace & Log Central** - Allows you to browse or download trace and log files for a specific date range or absolute time.
- **Job Status** - Shows the status of trace collection events.
- **Syslog Viewer** - Allows you to view (by node) the system, application, and security logs.
- **VLT** - Not applicable.
- **AuditLog Viewer** - Allows you to view system audit logs.

Related Topics

[Cisco Unified Intelligence Center Counters](#), on page 8

Cisco Unified Intelligence Center Services

- **Intelligence Center Perfmon Service**—Performance data collection process, which persists counters relating to Unified Intelligence Center report execution and live data statistics from Unified Intelligence Center, Socket.IO, and CCE Live Data ActiveMQ Service process, which will be helpful in debugging performance issues.

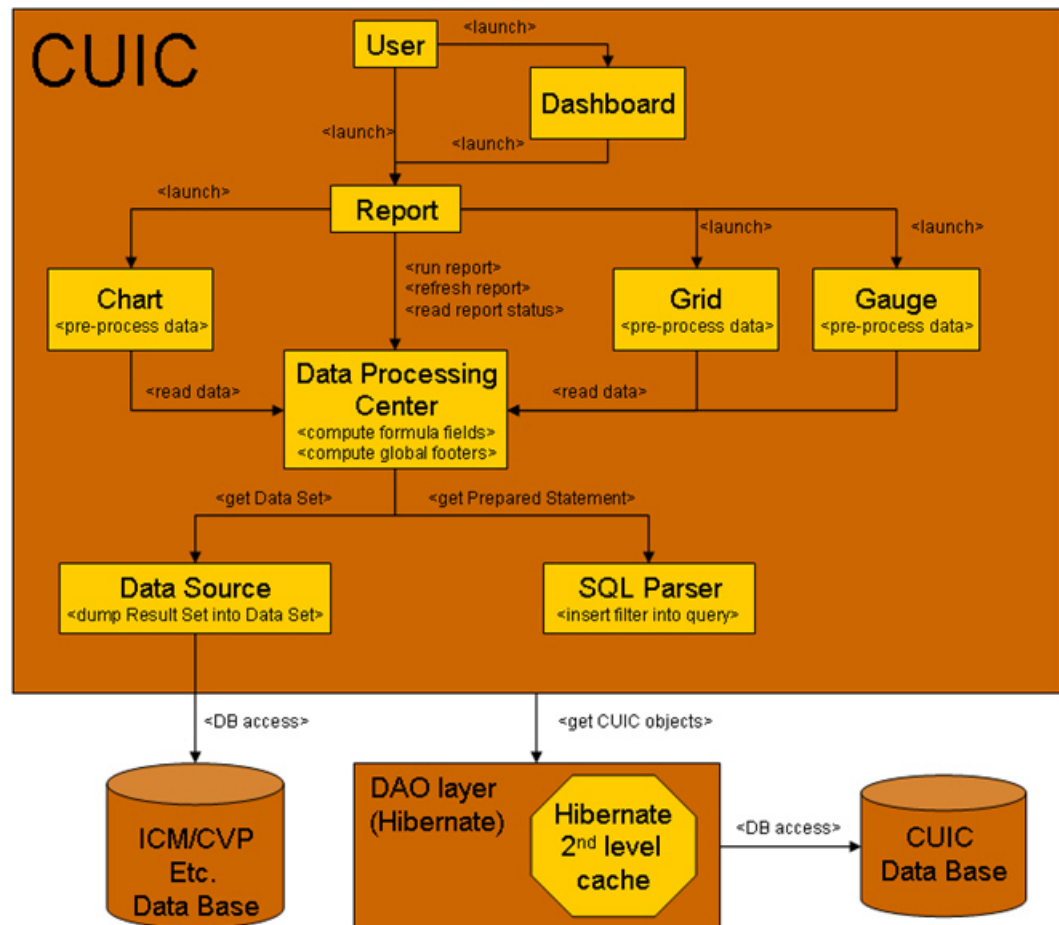
- **Intelligence Center Reporting Service**— Core service for the Unified Intelligence Center reporting functionality.
- **Intelligence Center SNMP Java Adapter Service**—SNMP service that interfaces between JMX counters and the SNMP Primary Agent.
- **Intelligence Center Serviceability Service**— Services that exposes RTMT counters from the Unified Intelligence Center server.

Unified IC performance objects and counters

Unified Intelligence Center performance *objects* are named for system components that generate data. Each performance object provides performance *counters* that represent data specific to that object. For example, the Unified Intelligence Center Licensing performance object has counters for License Start and License Expiration dates. The Unified Intelligence Center Reporting object has counters for the number of reports that are running and the number of reports that have failed. The counters for each object display when the folder expands.

Reporting Counters. The following diagram illustrates the runtime interactions and the relationship among the components involved on the execution of a report. The diagram provides a simple structure that defines the reporting engine performance counters.

Figure 6: Report Execution



When the data for the report is available, the Data Processing Center computes the formula fields and global report footers. The gauge, grid, and chart managers in the engine pre-process the data to generate subsets of information that will be consumed by their corresponding peer components on the User Interface. The diagram shows which processes have a high cost of execution and the importance of closely monitoring the operations performed by charts, grids, data processing center, the data sources, and so forth. Monitor these components to track the behavior of each component and its total contribution to the cost of executing a report.

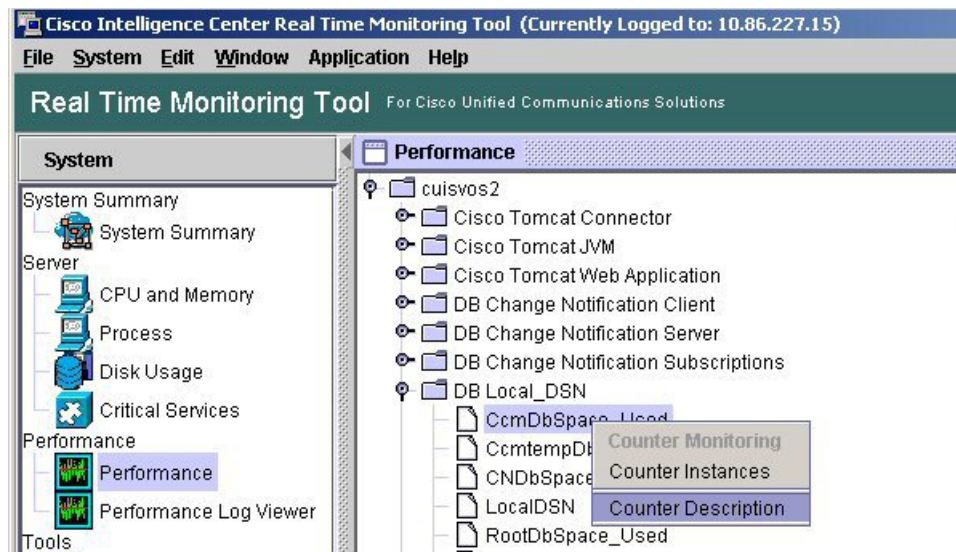
Aggregating the costs of all components provides a holistic view of the system performance. Keeping counters at the component level allows the system and application administrator to drill down into the details to determine what each component is doing and to perform any necessary corrective actions that.

This section lists all the performance objects monitored for Unified Intelligence Center and explains the counters for each.



Note Online help is available for each counter. Right-click the counter and select **Counter Description**.

Figure 7: RTMT Counter Help



For information on the objects and counters that are kept for the operating system, refer to the RTMT online help.

Intelligence Center Perfmon Service

Logs the performance counters from the critical processes in the system related to the Live Data Reporting services. This service collects data from the following services if they are up and running:

- Intelligence Center Reporting Service
- CCE Live Data ActiveMQ Service

Performance counter values are stored to the logs in the directory: `/opt/cisco/cuic/logs/perfmon`. The Intelligence Center Perfmon Service is configured to retain approximately 10 days of data at any given time. This service is independent of other services and is not required by other processes in the system.

Cisco Unified Intelligence Center Counters

Counters:

CUIC Tomcat Connector

The Tomcat Connector object provides information about Tomcat non-secure and secure Hypertext Transport Protocol (HTTP) connectors. A Tomcat Connector represents an endpoint that receives requests and sends responses.

The Connector handles HTTP requests and sends HTTP responses that occur when Cisco Unified Intelligence Center web pages are accessed. There are two instances of this object based on the Secure Sockets Layer (SSL) status of the URLs for web applications: **http-8443** for SSL (HTTPS) connections and **http-8081** for non-SSL (HTTP) connections.

Counter	Description
Errors	The total number of HTTP errors (for example, 401 Unauthorized) encountered by the Connector.
MBytes Received	The total number of data received by the Connector.
MBytes Sent	The total number of data that the Connector has sent.
Requests	The total number of requests that have been handled by the Connector.
ThreadsBusy	The Connector's current number of busy/in-use request processing threads.
ThreadsMax	The Connector's maximum number of request processing threads.
ThreadsTotal	The Connector's current total number of request processing threads, including available and in-use threads.

CUIC Tomcat JVM

The Tomcat Java Virtual Machine (JVM) object provides information about the Tomcat JVM, which represents, among other things, a pool of common resource memory used by Unified Intelligence Center.

Counter	Description
KBytesMemoryFree	The amount of free dynamic memory block (heap memory) in the Tomcat Java Virtual Machine. The dynamic memory block stores all objects created by Tomcat and its web applications such as Unified Intelligence Center. When the amount of free dynamic memory is low, more memory is automatically allocated and total memory size (represented by the KbytesMemoryTotal counter) increases up to the maximum (represented by the KbytesMemoryMax counter). You can determine the amount of memory in use by subtracting KBytesMemoryFree from KbytesMemoryTotal.
MemoryMax	The maximum dynamic memory block size for the Unified Intelligence Center Tomcat Java Virtual Machine.
MemoryTotal	This current total dynamic memory block size - including free and in-use memory - for the Tomcat Java Virtual Machine.

CUIC Tomcat Web Application

The Tomcat Web Application object provides information about running Cisco Unified Intelligence Center. The instance name for each Tomcat Web Application is based on the URL for the web application.

Counter	Description
Errors	The total number of HTTP errors (for example, 401 Unauthorized) encountered by a Cisco Unified Intelligence Center related web application.

Counter	Description
Requests	The total number of requests handled by the web application. Each time a web application is accessed, its Requests counter increments accordingly.
Sessions Active	The number of currently active (in use) sessions the web application currently has.

DB Change Notification Client

Counter	Description
MessagesProcessed	The number of database change notifications that have been processed. This counter refreshes every 15 seconds by default.
MessagesProcessing	The number of change notification messages in the change notification queue for this client that are currently being processed or are waiting to be processed. This counter refreshes every 15 seconds by default.
QueueHeadCounter	The head pointer of the change notification queue. The head pointer is the starting point in the change notification queue. To determine the number of notifications in the queue, subtract the head pointer value from the tail pointer value. This counter refreshes every 15 seconds by default.
QueueMax	The largest number of change notification messages to be processed for this client. This counter is cumulative since the last restart of the Cisco Database Layer Monitor service.
QueueTailPointer	The tail pointer of change notification queue. The tail pointer represents the ending point in the change notification queue. To determine the number of notifications in the queue, subtract the head pointer value from the tail pointer value. This counter refreshes every 15 seconds by default.
TablesSubscribed	The number of tables to which this client has subscribed.

DB Change Notification Server

Counter	Description
Clients	The total number of change notification clients.
CNProcessed	The total number of change notification messages processed by server since reboot.

Counter	Description
QueueDelay	The number of seconds that the change notification process has messages to process, but is not processing them. This condition is true if either Change Notification Requests Queued in Database (QueuedRequestsInDB) and Change Notification Requests Queued in Memory (QueuedRequestsInMemory) are non-zero or if the Latest Change Notification Messages Processed count is not changing. This condition is checked every 15 seconds.
QueuedRequestsInDB	The number of records from DBCNQueue table.
QueuedRequestsInMemory	The number of change notification requests queued in memory.

DB Change Notification Subscriptions

Counter	Description
SubscribedTable	The table(s) for which the service or servlet will receive change notifications. This information is provided for informational purposes only; no counter will increment.

DB Local DSN

Counter	Description
CcmDbSpace_Used	The amount of ccm dbspace consumed.
CcmtempDbSpace_Used	The amount of ccmtemp dbspace consumed.
CNDbSpace_Used	The percentage of CN dbspace consumed.
Local DSN	The data source name (DSN) that is being referenced from the local machine.
RootDBSpaceUsed	The amount of root dbspace consumed.
SharedMemory_Free	Total shared memory that is free.
SharedMemory_Used	Total shared memory that is used.

DB User Host Information Counters

Counter	Description
DB:User:Host Instances	The number of connections that are present for each instance of DB:User:Host.

DBPerformance Info

Counter	Description
CuicDbSpace_Used	The amount of Unified Intelligence Center dbspace consumed.
CuicSbSpace_Used	The amount of Unified Intelligence Center Blob Space consumed.
CuicTempDbSpace_Used	The amount of Unified Intelligence Center Temp dbspace consumed.
RootDbSpace_Used	The amount of root dbspace consumed.

Enterprise Replication DBSpace Monitors

Counter	Description
ERDbSpace_Used	The amount of enterprise replication DbSpace consumed.
ERSBDbSpace_Used	The amount of ERDbSpace consumed.

Enterprise Replication Perfmon Counters

Counter	Description
ReplicationQueueDepth	Displays the replication queue depth.

Intelligence Center General Information Section

Counter	Description
DeviceType	The number id of the device type.
GlobalStatisticInterval	Size in milliseconds of the global statistics interval.
InetAddressType	The type of the ip address of the device, either IPv4 or IPv6.
TimeZoneOffsetHours	The hours component of the offset of the default configured time zone.
TimeZoneOffsetMinutes	The minutes component of the offset of the default configured time zone.
Uptime (sec)	Null.

Intelligence Center JVM Statistics

Counter	Description
EnvMaxThreadsUsed	The real-time maximum threads used object is a real-time snapshot metric indicating the peak amount of threads used simultaneously in the runtime environment since startup. The maximum number of threads used by the runtime environment includes all Unified Intelligence Center standalone and thread pool threads as well as threads created by the web application server running within the same runtime environment.
EnvRtCommitMemUsed	The real-time current memory used object is a real-time snapshot metric indicating the memory committed by the runtime environment. This memory is guaranteed to be available to the runtime environment. This can change dynamically over time but is never less than EnvRtCurrMemUsed. The object value is expressed as a count of megabytes.
EnvRtCurrMemAvail	The real-time current memory available object is a real-time snapshot metric indicating the amount of system memory not being used. The object value is expressed as a count of Mega bytes and indicates the amount of current system memory that is not currently being used.
EnvRtCurrMemUsed	The real-time current memory used object is a real-time snapshot metric indicating the current memory usage by the runtime environment. The object value is expressed as a count of Mega bytes and indicates the current amount of memory used by this runtime environment.
EnvRtCurrThreadsInUse	The real-time current threads in use object is a real-time snapshot metric indicating a count of threads that are in use in the runtime environment. The number of threads in use by the runtime environment include all of the Unified Intelligence Center standalone and thread pool threads as well as those threads created by the web application server running within the same runtime environment.
EnvRtMaxMemAvail	The real-time maximum memory available object is a real-time snapshot metric indicating the maximum amount of System memory available. The object value is expressed as a count of megabytes.
EnvRtMaxMemUsed	The real-time maximum memory used object is a real-time snapshot metric indicating the peak memory allocated to the runtime environment. The object value is expressed as a count of megabytes and indicates the high water mark of memory that can be used by the runtime environment.

Counter	Description
EnvRtUpTime	The real-time up time object is a real-time snapshot metric indicating how long the Unified Intelligence Center application has been running. The object value is expressed as a count of milliseconds that have elapsed since the application began executing.

Intelligence Center License Information Section

Counter	Description
Node Count	The number of concurrent nodes this license enables.
User Count	The number of concurrent users this license enables.

Intelligence Center System Condition Table

Counter	Description
CUIC_DATASOURCE_UNAVAILABLE	This counter is no longer valid with the counter value -1. It has been rendered obsolete by the Await Write Time counter.
CUIC_DB_REPLICATION_FAILED	Database replication failed.
CUIC_LICENSE_EXPIRED	Unified Intelligence Center Application license has expired.
CUIC_REPORT_EXECUTION_FAILED	Could not run the report. Could be because associated data source is offline.
CUIC_SERVICE_UNAVAILABLE	Service going down.
Infrastructure_DEADLOCK_DETECTED	A deadlock between two or more application threads has been detected. This is an unrecoverable error and the server must be restarted. Detailed information about the deadlock can be found in the logs.
Infrastructure_LICENSE_EXPIRED	There is an expired feature in the license file.
Infrastructure_LICENSE_EXPIRING	There is a feature in the license file that will expire within the next 14 days.
Infrastructure_LICENSE_NO_LICENSE	No license file was loaded. Using default evaluation license.
Infrastructure_LICENSE_PROBLEM	There is an error in the license file.
Infrastructure_LOG_PURGER_ERROR	An error occurred while log files were being purged.

Counter	Description
Infrastructure_ PERSISTENT_STORE_SIZE_ALMOST_FULL	The message store that persists reporting data during a connection loss is approaching capacity. If it fills completely, reporting data will be lost.
Infrastructure_PERSISTENT_STORE_SIZE_FULL	The message store that persists reporting data during a connection loss is at capacity. Reporting data will be lost until the connection with the reporting server is restored.
Infrastructure_PERSISTENT_STORE_SIZE_WARN	The message store that persists reporting data during a connection loss is more than half full. If it fills completely, reporting data will be lost.
Infrastructure_ PORT_SECURITY_MANAGER_ERROR_LOADING	Error manipulating PortSecurityManager firewall rules.
Infrastructure_SC_JMX_CONFIGURATION_ERROR	There is a configuration problem with JMX ports.
Infrastructure_SERVER_NOT_READY	The Server state is not ready.
Infrastructure_SNMP_CONNECTION_ERROR	The connection to SNMP Subagent Failed.
Infrastructure_ SOFTWARE_CONFIGURATION_ERROR	There is an error in the files configuring the software on the disk.
Infrastructure_SUBSYSTEM_HEARTBEAT_FAILED	Heartbeats from one or more subsystems have stopped.
Infrastructure_SUBSYSTEM_START_FAILURE	One or more subsystems failed to start.
Infrastructure_SUBSYSTEM_STOP_FAILURE	One or more subsystems failed to stop.
Infrastructure_SYSTEM_SHUT_DOWN	One or more subsystems shut down.
RS_CONFIG_UNAVAILABLE	System detected critical error accessing configuration.
RS_DATABASE_UNAVAILABLE	System detected critical error with database.
RS_MAINTENANCE_IN_PROGRESS	System has detected maintenance in progress on Reporting Server.
RS_SYSTEM_THRESHOLD_REACHED	System has detected a critical system threshold reached on Reporting Server.
RS_UNRECOVERABLE_ERROR	System has detected an internal error within Reporting Server which may prevent it from functioning correctly. Restart may be required.

Intelligence Center Thread Pool Section

Counter	Description
Active Thread Count	Number of threads currently executing a task.
Core Pool Size	Minimum number of threads the thread pool is configured to have.
Largest Pool Size	The largest number of threads that have ever simultaneously been in the pool.
Maximum Pool Size	Maximum number of threads to which the thread pool can grow.
Pool Size	Number of currently available threads. Calculated from (total pool size) - (number of active threads)
Task Queue Size	The number of tasks currently queued for execution waiting for a thread.

Intelligence Center Tomcat Connector - HTTP

The Unified Intelligence Tomcat Connector - HTTP object provides information about a non-secure Hypertext Transport Protocol (HTTP) Tomcat connector. A Tomcat Connector represents an endpoint that receives requests and sends responses.

The Connector handles HTTP requests and sends HTTP responses that occur when Cisco Unified Intelligence Center web pages are accessed. There is an instance of this object based on the Secure Sockets Layer (SSL) status of the URLs for web applications: **http-8081** for non-SSL (HTTP) connections.

Counter	Description
Errors	The total number of errors (for example, 401 Unauthorized) encountered by the Connector.
MBytes Received	The total number of data received by the Connector.
MBytes Sent	The total number of data that the Connector has sent.
Requests	The total number of requests that have been handled by the Connector.
ThreadsBusy	The Connector's current number of busy/in-use request processing threads.
ThreadsMax	The Connector's maximum number of request processing threads.
ThreadsTotal	The Connector's current total number of request processing threads, including available and in-use threads.

Intelligence Center Tomcat Connector - HTTPS

The Unified Intelligence Tomcat Connector object provides information about a secure Hypertext Transport Protocol (HTTPS) Tomcat connector. A Tomcat Connector represents an endpoint that receives requests and sends responses.

The Connector handles HTTPS requests and sends HTTPS responses that occur when Cisco Unified Intelligence Center web pages are accessed. There is an instance of this object based on the Secure Sockets Layer (SSL) status of the URLs for web applications: **http-8444** for SSL (HTTPS) connections.

Counter	Description
Errors	The total number of errors (for example, 401 Unauthorized) encountered by the Connector.
MBytes Received	The total number of data received by the Connector.
MBytes Sent	The total number of data that the Connector has sent.
Requests	The total number of requests that have been handled by the Connector.
ThreadsBusy	The Connector's current number of busy/in-use request processing threads.
ThreadsMax	The Connector's maximum number of request processing threads.
ThreadsTotal	The Connector's current total number of request processing threads, including available and in-use threads.

IP

The IP object provides information on the IPv4-related statistics on your system.

Counter	Description
Frag Creates	The number of IP datagrams fragments that have been generated at this entity.
Frag Fails	The number of IP datagrams that were discarded at this entity because the datagrams could not be fragmented, such as datagrams where the Do not Fragment flag was set.
Frag OKs	The number of IP datagrams that were successfully fragmented at this entity.
In Delivers	The number of input datagrams that were delivered to IP user protocols. This includes Internet Control Message Protocol (ICMP).
In Discards	The number of input IP datagrams where no problems were encountered, but which were discarded. Lack of buffer space provides one possible reason. This counter does not include any datagrams that were discarded while awaiting reassembly.
In HdrErrors	The number of input datagrams that were discarded with header errors. This includes bad checksums, version number mismatch, other format errors, time-to-live exceeded, and other errors that were discovered in processing their IP options.
In Receives	The number of input datagrams that were received from all network interfaces. This counter includes datagrams that were received with errors.

Counter	Description
In UnknownProtos	The number of locally addressed datagrams that were received successfully but discarded because of an unknown or unsupported protocol.
InOut Requests	The number of incoming IP datagrams that were received and the number of outgoing IP datagrams that were sent.
Out Discards	The number of output IP datagrams that were not transmitted and were discarded. Lack of buffer space provides one possible reason.
Out Requests	The total number of IP datagrams that local IP user-protocols (including ICMP) supply to IP in requests transmission. This counter does not include any datagrams that were counted in ForwDatagrams.
Reasm Fails	The number of IP reassembly failures that the IP reassembly algorithm detected, including time outs, errors, and so on. This counter does not represent the discarded IP fragments because some algorithms, such as the algorithm in RFC 815, can lose track of the number of fragments because it combines them as they are received.
Reasm OKs	The number of IP datagrams that were successfully reassembled.
Reasm Reqds	The number of IP fragments that were received that required reassembly at this entity.

IP6

The IP6 object, which supports Cisco Unified Communications Manager, provides information on the IPv6-related statistics on your system.

Counter	Description
Frag Creates	The number of IP datagrams fragments that have been generated at this entity.
Frag Fails	The number of IP datagrams that were discarded at this entity because the datagrams could not be fragmented, such as datagrams where the Do not Fragment flag was set.
Frag OKs	The number of IP datagrams that were successfully fragmented at this entity.
In Delivers	The number of input datagrams that were delivered to IP user protocols. This includes Internet Control Message Protocol (ICMP).
In Discards	The number of input IP datagrams where no problems were encountered, but which were discarded. Lack of buffer space provides one possible reason. This counter does not include any datagrams that were discarded while awaiting reassembly.

Counter	Description
In HdrErrors	The number of input datagrams that were discarded with header errors. This includes bad checksums, version number mismatch, other format errors, time-to-live exceeded, and other errors that were discovered in processing their IP options.
In Receives	The number of input datagrams that were received from all network interfaces. This counter includes datagrams that were received with errors.
In UnknownProtos	The number of locally addressed datagrams that were received successfully but discarded because of an unknown or unsupported protocol.
InOut Requests	The number of incoming IP datagrams that were received and the number of outgoing IP datagrams that were sent.
Out Discards	The number of output IP datagrams that were not transmitted and were discarded. Lack of buffer space provides one possible reason.
Out Requests	The total number of IP datagrams that local IP user-protocols (including ICMP) supply to IP in requests transmission. This counter does not include any datagrams that were counted in ForwDatagrams.
Reasm Fails	The number of IP reassembly failures that the IP reassembly algorithm detected, including time outs, errors, and so on. This counter does not represent the discarded IP fragments because some algorithms, such as the algorithm in RFC 815, can lose track of the number of fragments because it combines them as they are received.
Reasm OKs	The number of IP datagrams that were successfully reassembled.
Reasm Reqds	The number of IP fragments that were received that required reassembly at this entity.

Memory

The memory object provides information about the usage of physical memory and swap memory on the server.

Counter	Description
% Mem Used	Displays the system physical memory utilization as a percentage. The value of this counter equals $(\text{Total KBytes} - \text{Free KBytes} - \text{Buffers KBytes} - \text{Cached KBytes} + \text{Shared KBytes}) / \text{Total KBytes}$, which also corresponds to the $\text{Used KBytes} / \text{Total KBytes}$.
% Page Usage	The percentage of active pages.

Counter	Description
% VM Used	The system virtual memory utilization as a percentage. The value of this counter equals (Total KBytes - Free KBytes - Buffers KBytes - Cached KBytes + Shared KBytes + Used Swap KBytes) / (Total KBytes + Total Swap KBytes), which also corresponds to Used VM KBytes/Total VM KBytes.
Buffers KBytes	The capacity of buffers in your system in kilobytes.
Cached KBytes	The amount of cached memory in kilobytes.
Free KBytes	The total amount of memory that is available in your system in kilobytes.
Free Swap KBytes	The amount of free swap space that is available in your system in kilobytes.
HighFree	The amount of free memory in the high region. Linux kernel splits the virtual memory address space into memory regions. The high memory is memory above a certain physical address, and its amount depends on the total memory and the type of kernel on the system.
HighTotal	The total amount of memory in the high region.
LowFree	The free low (non-paged) memory for kernel.
LowTotal	The total low (non-paged) memory for kernel.
PageFaultsPerSec	This represents the number of page faults (major + minor) made by the system per second (post 2.5 kernels only). This is not a count of page faults that generate I/O, because some page faults can be resolved without I/O.
PageMajorFaultsPerSec	This represents the number of major faults the system has made per second, those which have required loading a memory page from disk (post 2.5 kernels only).
Pages	The number of pages that the system paged in from the disk plus the number of pages that the system paged out to the disk.
Pages Input	The total number of pages that the system paged in from the disk.
Pages Input Per Sec	The total number of kilobytes the system paged in from disk per second.
Pages Output	The total number of pages that the system paged out to the disk.
Pages Output Per Sec	This represents the total number of kilobytes the system paged out to disk per second.
Shared KBytes	The amount of shared memory in your system in kilobytes.

Counter	Description
SlabCache	This represents all memory used by created slabcaches by various kernel components, as a macroscopic counter representing the sum of all the individual entries in the proc's slab info.
SwapCached	This represents the amount of Swap used as cache memory. Memory that once was swapped out, is swapped back in, but is still in the swapfile.
Total KBytes	The total amount of memory in your system in kilobytes.
Total Swap KBytes	The total amount of swap space in your system in kilobytes.
Total VM KBytes	The total amount of system physical and memory and swap space (Total Kbytes + Total Swap Kbytes) that is in use in your system in kilobytes.
Used KBytes	The amount of system physical memory that is in use on the system in kilobytes. The value of the Used KBytes counter equals Total KBytes - Free KBytes - Buffers KBytes - Cached KBytes + Shared KBytes. The Used KBytes value differs from the Linux term that displays in the top or free command output. The Used value that displays in the top or free command output equals the difference in Total KBytes - Free KBytes and also includes the sum of Buffers KBytes and Cached KBytes.
Used Swap KBytes	The amount of swap space that is in use on your system in kilobytes.
Used VM KBytes	The system physical memory and the amount of swap space that is in use on your system in kilobytes. The value equals Total KBytes - Free KBytes - Buffers KBytes - Cached KBytes + Shared KBytes + Used Swap KBytes. This corresponds to Used Mem KBytes + Used Swap KBytes.

Network Interface

The Network Interface object provides information about the network interfaces on the system.

Counter	Description
RxBytes	The number of bytes, including framing characters, that was received on the interface.
Rx Dropped	This represents the number of inbound packets that was chosen to be discarded even though no errors had been detected. Discarding packets prevents the packet from being delivered to a higher layer protocol, for example, to free up buffer space.
Rx Errors	This represents the number of inbound packets (for packet-oriented interfaces) and the number of inbound transmission units (for character-oriented or fixed-length interfaces) that contained errors that prevented them from being deliverable to a higher layer protocol.

Counter	Description
Rx Multicast	This represents the number of multicast packets that was received on this interface.
Rx Packets	This represents the number of packets that this sublayer delivered to a higher sublayer. This does not include the packets that were addressed to a multicast or broadcast address at this sublayer.
Total Bytes	This represents the total number of received (Rx) bytes and transmitted (Tx) bytes.
Total Packets	This represents the total number of received (Rx) packets and transmitted (Tx) packets.
Tx Bytes	This represents the total number of octets, including framing characters, that was transmitted out of the interface.
Tx Dropped	This represents the number of outbound packets that was chosen to be discarded even though no errors were detected. Discarding a packet prevents the packet from being delivered to a higher layer protocol, for example, to free up buffer space.
Tx Errors	This represents the number of outbound packets (for packet-oriented interfaces) and the number of outbound transmission units (for character-oriented or fixed-length interfaces) that could not be transmitted because of errors.
Tx Packets	This represents the total number of packets that the higher level protocols requested for transmission, including those that were discarded or not sent. This does not include packets that were addressed to a multicast or broadcast address at this sublayer.
Tx QueueLen	This represents the length, measured in packets, of the output packet queue.

Number of Replicates Created and State of Replication

The Number of Replicates Created and State of Replication object provides real-time replication information for the system.

Counter	Description
Number or Replicates Created	Displays the number of replicates that were created by Informix for the DB tables. This counter displays information during Replication Setup.

Counter	Description
Replicate_State	<p>This counter represents the state of replication. The following list provides possible values:</p> <ul style="list-style-type: none"> • 0 = Initializing. The counter equals 0 when the server is not defined or when the server is defined but realizes the template has not completed. • 1 = Replication setup script fired from this node. You can run <code>utils dbreplication status</code> on the CLI to determine the location and cause of the failure. • 2 = Good Replication. • 3 = Replication. A counter value of 3 indicates replication in the cluster is bad. It does not mean that replication failed on a particular server in the cluster. You can run <code>utils dbreplication status</code> on the CLI to determine the location and cause of the failure. • 4 = Replication setup did not succeed.

Partition

The Partition object provides information about the file system, its usage in the system, and the disk utilization on a per-partition basis on the system.

Counter	Description
% CPU Time	The percentage of CPU time that is dedicated to handling IO requests that were issued to the disk.
% Used	The percentage of disk space that is in use on this file system.
% Wait in Read	Not used. It has been rendered obsolete by the Await Read Time counter.
% Wait in Write	Not used. It has been rendered obsolete by the Await Write Time counter.
Await Read Time	The average time, measured in milliseconds, for read requests issued to the device to be served.
Await Time	The average time, measured in milliseconds, for I/O requests that were issued to the device to be served. This includes the time that the requests spent in queue and the time that was spent servicing them.
Await Write Time	The average time, measured in milliseconds, for write requests that are issued to the device to be served.
Queue Length	The average queue length for the requests that were issued to the disk.
Read Bytes Per Sec	The amount of data in bytes per second that was read from the disk.

Counter	Description
Total Mbytes	The amount of total disk space in megabytes that is on this file system.
Used Mbytes	The amount of disk space in megabytes that is in use on this file system.
Write Bytes Per Sec	The amount of data that was written to the disk in bytes per second.

PermalinkInfo

Counter	Description
ExcelPermalinksViewed	Total number of excel permalink views.
ExcelPermalinksViewedInterval	Total number of excel permalinks viewed over the last interval.
HTMLPermalinksViewed	Total number of HTML permalink views.
HTMLPermalinksViewedInterval	Total number of HTML permalinks viewed over the last interval.
TotalPermalinksViewed	The sum of report and dashboard permalinks viewed.
TotalPermalinksViewedInterval	The sum of report and dashboard permalinks viewed over the last interval.
XMLPermalinksViewed	Total number of XML permalink viewed.
XMLPermalinksViewedInterval	Total number of XML permalinks viewed over the last interval.

Process

Counter	Description
% CPU Time	Expressed as a percentage of total CPU time, represents the task's share of the elapsed CPU time since the last update.
% Memory Usage	The percentage of physical memory that a task is currently using.
Data Stack Size	The stack size for task memory status.
Nice	The nice value of the task. A negative nice value indicates that the process has a higher priority. A positive nice value indicates that the process has a lower priority. If the nice value equals zero, do not adjust the priority when you are determining the dispatchability of a task.
Page Fault Count	The number of major page faults that a task encountered that required the data to be loaded into memory.
PID	The task's unique process ID, which periodically wraps, though never restarting at zero.

Counter	Description
Process Status	The task's process status: 0 - Running, 1 - Sleeping, 2 - Uninterruptible disk sleep, 3 - Zombie, 4 - Traced or stopped (on a signal), 5 - Paging, 6 - Unknown.
Shared Memory Size	The amount of shared memory, in KB, that a task is using. Other processes could potentially share the same memory.
STime	The amount of system time (STime), measured in jiffies, for which this process has been scheduled in kernel mode. A jiffy corresponds to a unit of CPU time and gets used as a base of measurement. One second is equal to 100 jiffies.
Thread Count	The number of threads that are currently grouped with the task. A negative value -1 indicates that this counter is currently not available because thread statistics (including all performance counters in the Thread object as well as the Thread Count counter in the Process object) have been turned off because the system's total processes and threads have exceeded the default threshold value.
Total CPU Time Used	The total CPU time, measured in jiffies, that the task has consumed in user mode and kernel mode since the start of the task. One second is equal to 100 jiffies.
UTime	The amount of time, measured in jiffies, that the task has been scheduled for in user mode. One second is equal to 100 jiffies.
VmDate	The virtual memory usage of the heap for the task in kilobytes (KB).
VmRSS	The virtual memory (Vm) resident set size (RSS) that is currently in physical memory in kilobytes (KB), including Code, Data, and Stack.
VmSize	The total amount of virtual memory, in KB, that the task is using. It includes all code, data, shared libraries, and pages that have been swapped out: Virtual I

Processor

Counter	Description
% CPU Time	The processor's share of the elapsed CPU time excluding the idle time since last update, expressed as a percentage of CPU time.
Idle Percentage	The percentage of time that the CPU or CPUs were idle and the system did not have an outstanding disk I/O request.
IOwait Percentage	The percentage of time that the CPU or CPUs were idle, during which the system had an outstanding disk I/O request.
Irq Percentage	The percentage of time that the processor is executing the interrupt request which is assigned to devices for interrupt, or sending a signal to the computer when it is finished processing.

Counter	Description
Nice Percentage	The percentage of CPU utilization that occurred while running at the user level with nice priority.
Softirq Percentage	The percentage of time that the processor is executing the softirq, which means that task switching is deferred until later to achieve better performance.
System Percentage	The percentage of CPU utilization that occurred while running at the system level (kernel).
User Percentage	The percentage of CPU utilization that occurred while running at the user level (application).

Ramfs

Counter	Description
FilesTotal	The total number of files in the ram-based filesystem (ramfs).
SpaceFree	The amount of free data blocks in the ram-based filesystem (ramfs). A block is a uniformly sized unit of data storage for a filesystem. The block size specifies the size that the filesystem will use to read and write data.
SpaceUsed	The amount of used data blocks in the ram-based filesystem (ramfs). A block is a uniformly sized unit of data storage for a filesystem. The block size specifies the size that the filesystem will use to read and write data.

Reporting Engine Info

Counter	Description
Report (H/RT) CellsRetrieved	Total number of cells (rows times columns) that have been retrieved from all data sources.
Report (H/RT) CellsRetrievedInterval	Total number of cells (rows times columns) that have been retrieved from all data sources over the last interval.
Report (H/RT) Completed	Total number of reports that have been successfully run.
Report (H/RT) CompletedInterval	Change of counter Report (H/RT) Completed over the last interval.
Report (H/RT) Data PreprocessingTimeChart	Total amount of time spent processing report's data to display it in charts.

Counter	Description
Report (H/RT) Data PreprocessingTimeChartInterval	Change of counter Report (H/RT) DataPreprocessingTimeChart over the last interval.
Report (H/RT) Data PreprocessingTimeGauge	Total amount of time spent processing report's data to display it in gauges.
Report (H/RT) Data PreprocessingTimeGaugeInterval	Change of counter Report (H/RT) DataPreprocessingTimeGauge over the last interval.
Report (H/RT) Data PreprocessingTimeGrid	Total amount of time spent processing report's data to display it in grids.
Report (H/RT) Data PreprocessingTimeGridInterval	Change of counter Report (H/RT) DataPreprocessingTimeGrid over the last interval.
Report (H/RT) DataSetFetch Accepted	The total number of times that a request to fetch a DataSet has been accepted. Not all requests to fetch a DataSet are accepted. If the data for a report is already being fetched, another worker thread is not created to retrieve the same data.
Report (H/RT) DataSetFetch AcceptedInterval	The interval measure of the above counter.
Report (H/RT) DataSetFetch Requests	The total number of times that a request to fetch data from a Data Source has been received. This happens every time a report is launched for the first time (in which case, there is also a request to create a new DataSetInfo object), and every time there is a request to refresh a report that has already been launched.
Report (H/RT) DataSetFetch RequestsInterval	The interval measure of the Report (H/RT) DataSetFetchRequests counter.
Report (H/RT) DataSetInfo Created	Out of all the requests for a new DataSetInfo object (Report (H/RT) DataSetInfoRequested), how many times a new object has actually been created. An object is actually created only when one does not already exist for the same Report Definition and Filter. This is the case if no user has ever run that Report Definition with that Filter or if the Purge mechanism of the Unified Intelligence Center DB has cleared up any record of previous users running that Report Definition with that Filter.
Report (H/RT) DataSetInfo CreatedInterval	The interval measure of the Report (H/RT) DataSetInfoCreated counter.

Counter	Description
Report (H/RT) DataSetInfo Requested	<p>The total number of times that a request to create a new DataSetInfo object has been received.</p> <p>A new DataSetInfo object is created when a report is being launched for the very first time. By report what is meant is the combination of a Report Definition and a Filter. For example, executing Report Definition (template) R1 with Filter F1 produces DataSetInfo D1<R1, F1>. Executing Report Definition R2 with Filter F2 produces DataSetInfo D2<R2, F2>.</p> <p>If another user runs Report Definition (template) R1 with Filter F1, a request to create a new DataSetInfo object is received, but a new object will not be created. Instead, D1 will be reused, DataSetInfo D1<R1, F1>.</p>
Report (H/RT) DataSetInfo RequestedInterval	The interval measure of the Report (H/RT) DataSetInfoRequested counter.
Report (H/RT) DataSetInfo Read	The number of times that a view (grid/gauge/chart) has read the data of a (H/RT) report. This tells how many times the data of reports is being prepared to be displayed to a user (turned into HTML or XML).
Report (H/RT) DataSetInfo ReadInterval	The interval measurement of the Report (H/RT) DataSetReadTotal counter.
ReportExecutionSqlStatementPrepareTime	Time taken to prepare the SQL statement (milliseconds).
ReportExecutionSqlStatementPrepareTimeInterval	Change of counter ReportExecutionSqlStatementPrepareTime over the last interval.
Report (H/RT) Failed	The total number of reports that have failed. The total number of times that Unified Intelligence Center has tried to fetch data from a Data Source but it has not been able to.
Report (H/RT) FailedInterval	The interval measurement of the Report (H/RT) Failed counter.
ReportGridHtmlGenerationTime	Time taken to generate grid html (milliseconds)
ReportGridHtmlGenerationTimeInterval	Change of counter ReportGridHtmlGenerationTime over the last interval
Report (H/RT) RenderedChart	Total number of times that the data of a report has been turned into a Chart and sent to a browser (or any other client).

Counter	Description
Report (H/RT) RenderedChart Interval	The interval measurement of the Report (H/RT) RenderedChart counter.
Report (H/RT) RenderedGauge	Total number of times that the data of a report has been turned into a Gauge and sent to a browser (or any other client).
Report (H/RT) RenderedGauge Interval	The interval measurement of the Report (H/RT) RenderedGauge counter.
Report (H/RT) RenderedGrid	Total number of times that the data of a report has been turned into a Grid and sent to a browser (or any other client).
Report (H/RT) RenderedGrid Interval	The interval measurement of the Report (H/RT) RenderedGrid counter.
Report (H/RT) RenderedRows Retrieved	The total number of rows that have been retrieved by Unified Intelligence Center from data sources.
Report (H/RT) RenderedRows RetrievedInterval	The interval measurement of the Report (H/RT) RowsRetrievedTotal counter.
Report (H/RT) Running	The number of (H/RT) reports that are currently running. A report is currently running when the Runnable object has been assigned a thread from the pool. It does not include those that are waiting in a queue for a thread to become available.
Report (H/RT) Running Interval	The interval measurement of the Report (H/RT) Running counter.
Report (H/RT) Runtime	Total amount of seconds spent running reports.
Report (H/RT) RuntimeInterval	Change of counter Report (H/RT) Runtime over the last interval.
Report (H/RT) Runtime DatasourceTime	<p>The number of seconds or milliseconds that Unified Intelligence Center has spent waiting for ICM, or any other database, to return the data of a query. This includes the time from the moment Unified Intelligence Center commits the JDBC query to the moment Unified Intelligence Center gets control back (when the worker thread stops being in an I/O blocked state).</p> <p>Subset of Report (H/RT) Runtime. Amount of time that was spent waiting for data sources to return the report's data.</p>
Report (H/RT) Runtime DatasourceTimeInterval	The interval measurement of the Report (H/RT) DataSourceTimeTotal counter.

Counter	Description
Report (H/RT) Waiting	Total number of reports that are currently queued for execution.
Report (H/RT) Waiting Interval	Change of counter ReportRealtimeWaiting over the last interval.
ReportWorkerThreadQueueLatency	Total latency for worker thread to be available for report execution (milliSeconds).
ReportWorkerThreadQueueLatencyInterval	Change of counter ReportWorkerThreadQueueLatency over the last interval.
ReportsUniqueUsersLoggedinInterval	Total number of unique logged-in users over the past interval. Does not count same user who leaves and comes back within the interval.
ReportsUsersFailedLoginAttempts	Total number of failed login attempts.
ReportsUsersFailedLoginAttemptsInterval	Change of counter ReportsUsersFailedLoginAttempts over the last interval.
ReportsUsersLoggedin	Total number of users that are currently logged in.

RESTInfo

Counter	Description
ConfigurationCalls	Total number of configuration REST calls made to Unified Intelligence Center.
ConfigurationCallsInterval	Total number of configuration REST calls made to Unified Intelligence Center over the last interval.
ReportCalls	Total number of Report REST calls made to Unified Intelligence Center.
ReportCallsInterval	Total number of Report REST calls made to Unified Intelligence Center over the last interval.
ReportDefinitionCalls	Total number of Report Definition REST calls made to Unified Intelligence Center.
ReportDefinitionCallsInterval	Total number of Report Definition REST calls made to Unified Intelligence Center over the last interval.
TotalRESTCalls	Total number of REST calls made to Unified Intelligence Center.
TotalRESTCallsInterval	Total number of REST calls made to Unified Intelligence Center over the last interval.

SchedulerInfo

Counter	Description
SchedulerJobsCompletedCount	The number of jobs that the scheduler service has completed.

Counter	Description
SchedulerJobsFailedCount	The number of jobs that the scheduler service has failed to complete successfully.
SchedulerJobsRunningCount	The number of jobs that the scheduler service is currently running.
SchedulerState	The current state of the scheduler. The possible values are: 0. - Stopped, 1.- Idle, 2.- Suspended and 3.-Running.
DashboardScheduleCount	The number of dashboard schedule executions.
EmailExcelCount	The number of jobs which send provided report execution results as Excel in email.
EmailHTMLCount	The number of jobs which send provided report execution results as HTML in email.
EmailPDFCount	The number of jobs which send provided report execution results as PDF in email.
SFTPCount	The number of jobs which saves report execution results to the given remote location.

Counter	Description
SchedulerJobsFailedCount	The number of jobs that the scheduler service has failed to complete successfully.
SchedulerJobsRunningCount	The number of jobs that the scheduler service is currently running.
EmailExcelCount	The number of jobs which send provided report execution results as Excel in email.
EmailHTMLCount	The number of jobs which send provided report execution results as HTML in email.
EmailPDFCount	The number of jobs which send provided report execution results as PDF in email.
SFTPCount	The number of jobs which saves report execution results to the given remote location.

System

The System object provides information for file descriptors (FD), total processes and threads, total CPU time measured on the system.

Counter	Description
Allocated FDs	Represents the total number of allocated file descriptors.
Being Used FDs	Represents the number of file descriptors that is currently in use in the system.

Counter	Description
Freed Fds	Represents the total number of allocated file descriptors on the system that is freed.
IOAwait	The average time, in milliseconds, for I/O requests issued to all devices to be served. This includes the time spent by the requests in queue and the time spent servicing the requests.
IOcpuUtil	The percentage of CPU time during which I/O requests were issued to the device (bandwidth utilization for the device) on this server.
IODeviceReqQueueSize	The average queue length of the requests that were issued to all devices on this server.
IODeviceReqSectorSize	The average size in sectors of the requests that were issued to all devices on this server.
IOKBytesReadPerSecond	The total number of KBytes read per second from all devices on this server.
IOKBytesWrittenPerSecond	The total number of KBytes written per second to all devices on this server.
IOPerSecond	The total number of input/output operations on all disk partitions per second on this server. If you experience a system performance issue, use the information in this counter to measure the impact of the aggregate I/O operations on this server.
IOReadReqPerSecond	The total number of read requests per second that were issued to all devices on this server.
IOReadQueueMergedPerSecond	The total number of read requests merged per second that were queued to all devices on this server.
IOSectorsReadPerSecond	The total number of sectors read per second from all devices on this server.
IOSectorsWrittenPerSecond	The total number of sectors written per second to all devices on this server.
IOServiceTime	The average service time, in milliseconds, for I/O requests that were issued to all devices on this server.
IOWriteReqPerSecond	The total number of write requests per second that were issued to all devices on this server.
IOWriteReqQueueMergedPerSecond	The total number of write requests merged per second that were queued to all devices on this server.
Max Fds	Represents the maximum number of file descriptors that is allowed on the system.

Counter	Description
Total CPU Time	Represents the total time, measured in jiffies, that the system has been up and running. A jiffy corresponds to a unit of CPU time and gets used as a base of measurement. One second is equal to 100 jiffies.
Total Processes	Represents the total number of processes on the system.
Total Threads	Represents the total number of threads on the system.

TCP

Counter	Description
Active Opens	The number of times that TCP connections have made a direct transition to the SYN-SENT state from the CLOSED state.
Attempt Fails	The number of times that TCP connections have made a direct transition to the CLOSED state from either the SYN-RCVD state or the SYN-RCVD state, plus the number of times TCP connections have made a direct transition to the LISTEN state from the SYN-RCVD state.
Curr Estab	The number of TCP connections for which the current state is either ESTABLISHED or CLOSE-WAIT.
Estab Resets	The number of times that the TCP connections have made a direct transition to the CLOSED state from either the ESTABLISHED state or the CLOSE-WAIT state.
In Segs	The total number of segments received, including those received in error. This count includes segments received on currently established connections.
InOut Segs	The total number of segments that were sent and the total number of segments that were received.
Out Segs	The total number of segments sent, including those on current connections but excluding those containing only retransmitted octets.
Passive Opens	The number of times that TCP connections have made a direct transition to the SYN-RCVD state from the LISTEN state.
RetransSegs	The total number of segments retransmitted, that is, the number of TCP segments transmitted containing one or more previously transmitted octets.

Thread

Counter	Description
% CPU Time	The thread's share of the elapsed CPU time since the last update, expressed as a percentage of total CPU time.
PID	The thread's leader process ID.