Oracle® Enterprise Manager

Plug-in for Oracle Unified Directory User's Guide

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Oracle Enterprise Manager Plug-in for Oracle Unified Directory User's Guide, 12c Release 1 (12.1.0.2)

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Preface

The Enterprise Manager Plug-in for Oracle Unified Directory extends Oracle Enterprise Manager Cloud Control 12 *c* to add support for monitoring Oracle Unified Directory(OUD) instances.

This guide includes installation, configuration and uninstallation information, and a detailed analysis of the metrics that can be monitored using the Enterprise Manager Plug-in for OUD.

Audience

This document is intended for enterprise architects and system administrators.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Related Documentation

For more information, see the following documentation libraries on the Oracle Technology Network (OTN) Documentation Index page at http://www.oracle.com/technetwork/indexes/documentation/index.html.

- Oracle Enterprise Manager Cloud Control Documentation
  http://docs.oracle.com/cd/E24628_01/index.htm

- Oracle Unified Directory Documentation Library
  http://docs.oracle.com/cd/E49437_01/index.htm

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1

Installing and Using the Oracle Enterprise Manager Plug-in for OUD

The Enterprise Manager Plug-in for Oracle Unified Directory extends Oracle Enterprise Manager Cloud Control 12 *c* to add support for monitoring Oracle Unified Directory(OUD) instances.

This chapter contains the following sections:

- Before You Install
- Deploying the Enterprise Manager Plug-in for OUD
- Viewing Performance Metrics for an OUD Instance
- Uninstalling the Enterprise Manager Plug-in for OUD
- Limitations of this Release

1.1 Before You Install

OUD can function in one of the following three modes:

- As an LDAP directory server instance, used to contain data
- As an LDAP proxy server instance, where the server acts as an interface between the client and the directory server or servers that contain the data
- As a replication gateway instance between OUD and Oracle Directory Server Enterprise Edition (ODSEE)

The Enterprise Manager Plug-in for OUD is provided as an archive that includes three target types, one for each OUD installation mode or type. (See "Deploying the Plug-in" for download information.) Install the plug-in that corresponds to the type of OUD instance that you want to monitor.

1.1.1 Release Information

This 12.1.0.2 version of the Enterprise Manager Plug-in for OUD enables you to monitor the following:

- Oracle Unified Directory 11.1.2.2.0 and later for Directory target instances
- Oracle Unified Directory 11.1.2.2.0 and later for Proxy target instances
- Oracle Unified Directory 11.1.2.2.0 and later for Replication Gateway target instances

Version 11*g* Release 2 (11.1.2.1.0) of the Enterprise Manager Plug-in for OUD, formerly named the Oracle System Monitoring Plug-in for OUD for Enterprise Manager 11*g* Grid Control, is available at
`http://www.oracle.com/technetwork/oem/downloads/unified-directory-514420.html`.

1.1.2 Installation Prerequisites

- See the Enterprise Manager Plug-In for Oracle Unified Directory Certification Matrix available on `My Oracle Support`.

  The certification matrix contains information about supported installation types, platforms, operating systems, databases, JDKs, and third-party products.

- Install Enterprise Manager Cloud Control 12*c* (12.1.0.4) or later with the latest bundle patch. Be sure Oracle Management Service and the Oracle Management Agent are installed. It is recommended that the Oracle Management Agent and the OUD instances be installed on the same host.

  For detailed information, see the Enterprise Manager Cloud Control 12c Documentation site `http://docs.oracle.com/cd/E24628_01/index.htm`.

- Make sure that the Oracle Management Agent can communicate with your Oracle Enterprise Manager Server and can upload data. For example, Agent Availability must be UP, Last Load Time should show a recent date/timestamp, and Last Load Time should be Periodically updated. For information about installing and configuring the Oracle Management Agent, see the *Oracle® Enterprise Manager Basic Installation Guide*.

1.2 Deploying the Enterprise Manager Plug-in for OUD

This section provides the major steps required to deploy the plug-in. For many of the steps, you will be directed to use the instructions already provided in the *Oracle Enterprise Manager Cloud Control Administrator's Guide* `http://docs.oracle.com/cd/E24628_01/doc.121/e24473/toc.htm`.

To deploy the Plug-in for OUD:

1. Import the plug-in.
   See Section 1.2.1, "Importing the Plug-in Archive."

2. Deploy the plug-in.
   See Section 1.2.3, "Deploying the Plug-in.".

3. Create a target instance of the plug-in on the Oracle Management Agent.
   See Section 1.2.4, "Adding Targets To Monitor".

1.2.1 Importing the Plug-in Archive

For detailed instructions, see the "Downloading Plug-ins" chapter in the *Enterprise Manager Cloud Control Administrators Guide*: `http://docs.oracle.com/cd/E24628_01/doc.121/e24473/plugin_mngr.htm#CJGBEAHJ`

1.2.2 Upgrading the Plug-In

For detailed instructions to upgrade plugin version 12.1.0.1.0 to 12.1.0.2.0, see the sections "Upgrading Plug-Ins Deployed to Oracle Management Service" and "Upgrading Plug-Ins Deployed to Oracle Management Agent" in the *Oracle Enterprise Manager Cloud Control Administrator's Guide*.

1.2.3 Deploying the Plug-in

Deploy the plug-in on the Oracle Unified Directory instances to be monitored. For detailed instructions, see "Deploying Plug-ins to Oracle Management Service" in the *Enterprise Manager Cloud Control Administrators Guide*:
http://docs.oracle.com/cd/E24628_01/doc.121/e24473/plugin_mngr.htm#CJGCDHFG

You can now create a target instance.

1.2.4 Adding Targets To Monitor

Create a target instance of the Enterprise Manager Plug-in for OUD on one or more agents. You must create one target instance for each OUD instance.

1. On the Setup Menu, choose **Add Target > Add Targets Manually**.

2. On the Add Target page, choose the **Add Targets Declaratively by Specifying Target Monitoring ProPerties** option.

   Choose the **Target Type** and the list of agents to which you deployed the plug-in.

3. Click **Add Manually**.

4. On the Add OUD Instance proPerties page, enter the following values:

   OUD Credentials

   - In the **Directory Server Username** and **Password** fields, enter a username and password that will be used by the agent to bind to the server instance. Ensure the password is in the appropriate field.

   ProPerties

   - In the **Administration Port** field, enter the administration port of the target server instance.

   - In the **Directory Server Host** field, enter the fully qualified domain name of the target server instance. For replicated servers, you must provide the same host name that was used when replication was configured.

   - The **Trust All** field is set to true by default. This implies that all the certificates that are presented by the server (or servers, in the case of replication) will be accepted automatically. Change this setting if you want to specify different behavior.

   - (Optional) If you have changed the default setting for the **Trust All** field, enter a path in the **Trust Store Path** field.

     The agent will use the trust store located in this path to validate the certificates of the administration connector that are presented by the server(s). This path must be readable by the agent (and thus located in a file system that is accessible by the agent). The trust store must contain the public keys of the administration connector certificates. It must be in JKS format and must not be password protected.

5. Click **OK**.

1.3 Viewing Performance Metrics for an OUD Instance

This section contains the following topics:

- Section 1.3.1, "Viewing an OUD Instance Home Page"

- Section 1.3.2, "Using the All Metrics Page"
- Section 1.3.3, "Setting Metric Thresholds"
- Section 1.3.4, "Summary of Directory Server Instance Monitoring Information"
- Section 1.3.5, "Summary of Proxy Server Instance Monitoring Information"
- Section 1.3.6, "Summary of Replication Gateway Monitoring Information"

1.3.1 Viewing an OUD Instance Home Page

The Enterprise Manager Plug-in for Oracle Unified Directory collects and displays information and Performance metrics for a Oracle Unified Directory instance.

 To navigate to an OUD instance Home page:

1. On the Oracle Enterprise Manager home page, select **Targets**.

   The Hosts page is displayed.

2. Click **All Targets** in the top menu bar.

3. Choose the OUD target instance name.

   The target instance Home page is displayed.

The monitoring information displayed in the Enterprise Manager Cloud Control console depends upon the current Oracle Unified Directory instance type: Directory Server instance, Proxy Server instance, or Replication Gateway instance. Table 1–1 summarizes the information available for the different OUD instance types.

Table 1–1   Monitoring Data Available Through the Enterprise Manager Plug-in

Information	Directory	Proxy	Replication GW
General Information	Yes	Yes	Yes
JVM Resources	Yes	Yes	Yes
Connections	Yes	Yes	-
Administration Connector	Yes	Yes	Yes
Connection Handlers	Yes	Yes	-
Operations	Yes	Yes	Yes
Replication Information	Yes	-	Yes
Backends / Databases	Yes	-	-
Internal Resources / Caches / Workqueues	Yes	Yes	-
Global Index Catalog	-	Yes	-
Distribution / Partitions	-	Yes	-
Data Sources / Connection Pools	-	Yes	-

Monitoring information is displayed on various pages in the Enterprise Manager Cloud Control console. You can access these pages through the OUD target instance submenu.

Figure 1–1   Comparison of Target Instance Submenus
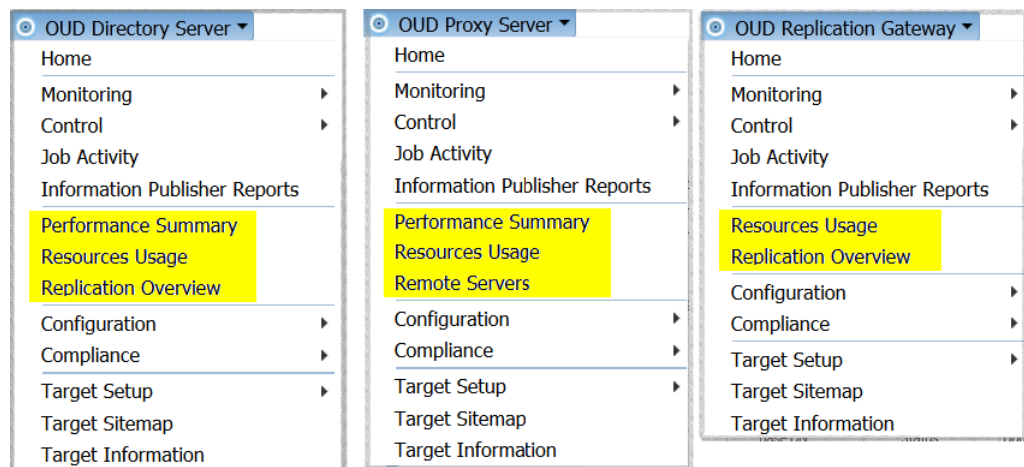
Table 1–1 compares submenus for an OUD Directory Server instance, OUD Proxy Server instance, and OUD Replication Gateway instance. All submenus include many identical commands including: Home, Monitoring, Control >, Job Activity, Information Publisher Reports, Configuration >, Compliance >, Target Setup >, Target Sitemap, and Target Information. For each target instance, however, the Home page presents different high-level information based on the target instance type.

In Table 1–1, the following differences are highlighted:

- For a Directory Server instance, the submenu provides access to the following information: Performance Summary, Resources Usage, and Replication Overview.

- For a Proxy Server instance, the submenu provides access to the following information: Performance Summary, Resources Usage, and Remote Servers.

- For a Replication Gateway instance, the submenu provides access to the following information: Resources Usage and Replication Overview.

For all target types, the **Monitoring > All Metrics** command provides access to a complete list of the monitored metrics for the target instance. The information displayed is determined by the Oracle Unified Directory instance type.

Performance information is provided in terms of averages and rates, depending on the information type. Data is represented in both text and graphical form.

Numerical information and comparative data indicates the most recent sampled data. By default, the Oracle Management Agent gathers a new sample of data every five minutes. Line graphs are constructed by point, with each point representing a collected data.

Alerts are generated, based on specific thresholds that you can configure on the **Monitoring > Metrics and Collection Settings** page.

1.3.2 Using the All Metrics Page

The Oracle Unified Directory submenu pages display only a subset of the monitored metrics. The **Monitoring > All Metrics** command provides access to all the monitored metrics for the target instance.

For example, the **Performance Summary** page of a directory server page provides information on the about the `add`, `delete`, `modify`, `modify DN`, `search`, and `bind` Operations Performed on the server. The All metrics page also provides Operations

information for each LDAP connection handlers, which are not included in the Performance Summary page.

To display the **All Metrics** page:

1. On the Oracle Enterprise Manager home page, choose **Targets**.

   The **Hosts** page is displayed.

2. Click **All Targets** in the top menu bar.

3. Choose the target instance name.

   The target instance **Home** page is displayed.

4. At the bottom of the **Home** page, under the Related Links menu, click **All Metrics**.

   The **All Metrics** page is displayed.

Metrics are organized in logical groups. The following figure illustrates the metrics available when the **Operations Read Information** group is expanded, and **Bind Operations Per Second** is selected.

Figure 1–2   Operations Read Information
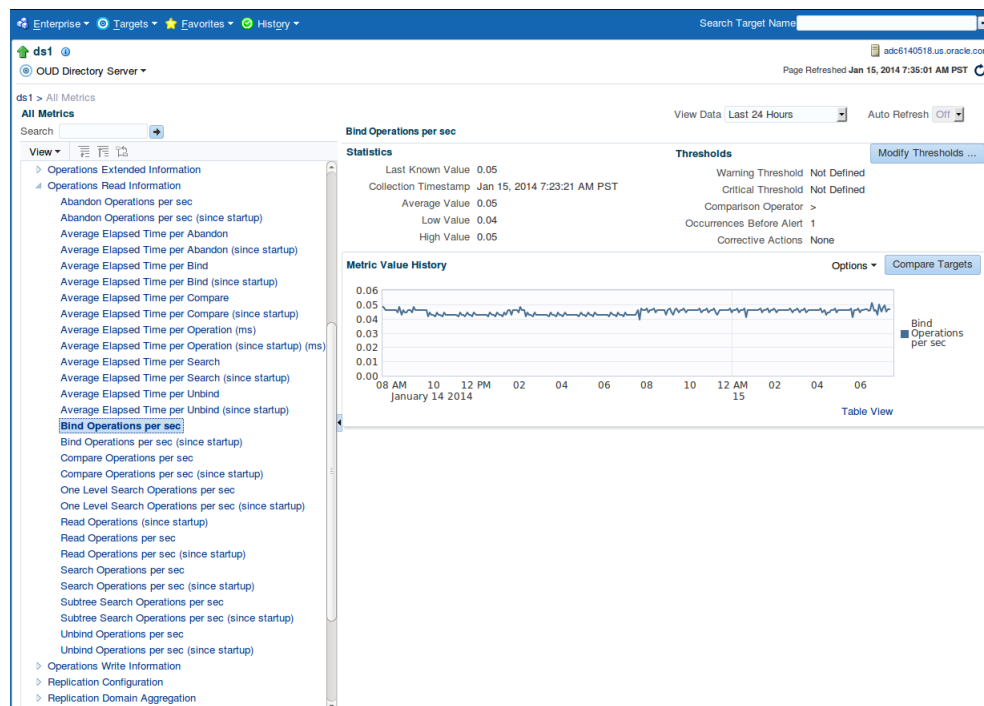
To display details of the metric, click on the metric name. In Figure 1–3, to display information about One Level Search Operations Per Second within the last 24 hours, the **One Level Search Operations Per Second** metric was chosen from the All Metrics page. A new page dedicated to this metric is displayed.

Figure 1–3 lists the following Statistics: Last Known Value: 0.37, Average Value: 0.14, Low Value: 0.06, High Value: 0.43, Warning Threshold: Not Applicable; Critical Threshold: Not Applicable; Occurrences Before Alert: 0, and Corrective Actions: None. A graph is labeled with metric values ranging from 0.00 to 0.50, and hourly intervals spanning 24 hours. The graph data illustrates activity peaks between the hours of 08AM and 08AM the following day.

Figure 1–3   One Level Search Operations Per Second page
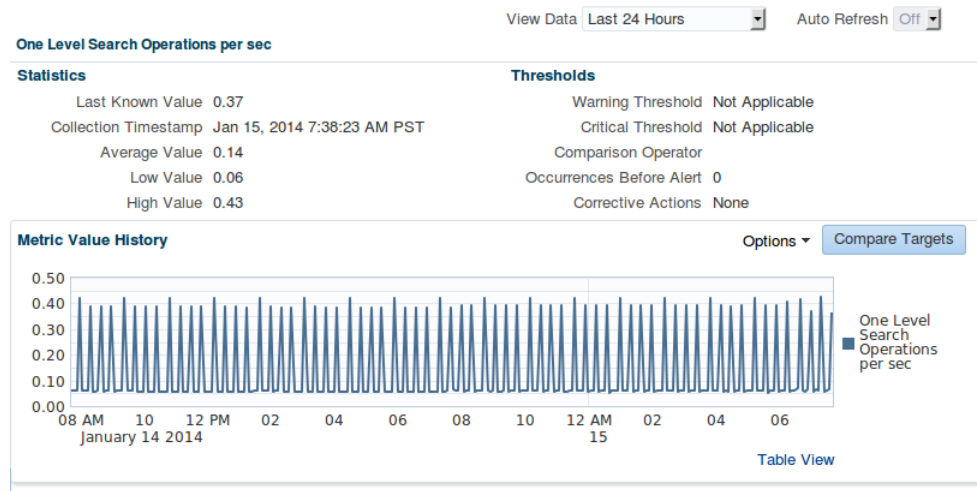
The All Metrics page enables you to specify how you want to view a particular metric. The All Metrics page also provides the ability to compare the metrics against to target instances. Use the **View Data** field to select a specific time Period for which to display the monitored data. Time Periods for seven days or more also display the minimum, maximum and average values of a metric during that Period.

1.3.3 Setting Metric Thresholds

Metric thresholds enable you to specify when alerts should be generated for a specific monitored metric. For example, if you want to receive an alert when the number of read operations per second exceeds a certain maximum, you can configure a threshold for this metric.

To configure a metric threshold:

1. From the Home page of the Target Instance menu, go to **Monitoring > Metric and Collection Settings**.

    By default, the list of metrics for which thresholds have been defined is displayed. See Figure 1–4.

2. From the View list, select **All metrics**.

3. Scroll down to locate the metric for which you want to set a threshold.

4. Enter a value in the **Warning Threshold** column to specify the point at which you should receive a warning alert.

5. Enter a value in the **Critical Threshold** column to specify the point at which you should receive a critical alert.

6. To change the collection schedule for that metric:

    ■   Click the existing value in the Collection Schedule column.

    ■   Edit the collection settings, as required.

7. To specify any corrective behavior that should be taken if the metric reaches the warning threshold or critical threshold:

    ■   Click the **Edit** icon.

    ■   On the Monitored Objects pane, click **Edit**.

- On the Corrective Actions pane, click **Add** next to the threshold for which you want to specify the corrective action.

- Follow the steps in the **Add Corrective Action** wizard.

8. On the Metrics and Collection Settings page, click **OK** to save your changes.

Figure 1–4 shows the **All Metrics** view for a directory server target instance. The view contains two tabs: Metrics and Other Collected Items. The Metrics tab contains a table which lists metrics collected for this directory server instance. For each metric, the following values may be reported: Comparison Operator, Warning Threshold, Critical Threshold, Corrective Actions, and Collections Schedule.

To reconfigure the settings for a metric, click the **Edit** icon the end of its row.

Figure 1–4   The Metric and Collections Settings Page for a Directory Server Target Instance

1.3.4 Summary of Directory Server Instance Monitoring Information

- Directory Server Instance Home Page Metrics

- Directory Server Instance Performance Summary Page Metrics

- Directory Server Instance Resources Usage Page Metrics

- Directory Server Instance Replication Overview Page Metrics

1.3.4.1 Directory Server Instance Home Page Metrics

The directory server instance Home page provides the following basic information about the server instance:

- General Information about the directory server instance and its current status including: up time, the administration port, the full version of the server, install and instance path, server role, and whether replication is enabled or disabled in the LDAP server

- Availability of the server

- Current load of the LDAP server including: the number of Operations Per Second, the average etime Per Operation, the number of Connections Per Second, the number of Current Connections, and the Connections Ceak

- List of configured suffixes and for each suffix, the DN, the entry count in the suffix, and indication of whether the suffix is replicated or not replicated

- List of configured connection handlers, and each connection handler name and type (such as LDAP, SNMP, JMX and so forth), the Listen Port Number, whether the connection handler is enabled or disabled, Average etime (ms) Per Operation on the connection handler, and the number of Operations Per Second Since the Last Collection

- Performance overview with line charts indicating the following:

  - The number of Operations Completed Per Second since the server startup, and Operations Completed Per Second Since the Last Collection

  - The eTime Per Operation Since Startup of the server, and the eTime Per Operation Since the Last Collection

  - The number of Connections Per Second Since Startup, and the number of Connections Per Second Since the Last Collection

  - CPU usage

In addition, the Home page displays any alerts that might have been generated by the monitored server instance.

1.3.4.2 Directory Server Instance Performance Summary Page Metrics

The OUD Directory Server Performance Summary Page displays the following:

- Current Load of the server with the number Operations Per Second, the Average eTime, the number of Connections Per Second, the number of Current Connections, and Connections Peak

- A pie chart representing the number of Completed Operations compared to the Unsuccessful Operations Per Second

- Two bar charts representing, for each read and write operation type, the number of Operations Per Second

- For each Operation type, the number of Operations Per Second and the associated elapsed time

1.3.4.3 Directory Server Instance Resources Usage Page Metrics

The OUD Directory Server Resource Summary Page displays the following:

JVM Information

- VM information like the Java version, Java home, Java Architecture, Max allowed Memory (MB), Total Memory (MB), Used Memory (MB) and the Free Memory (MB)

- A line chart representing the Free Memory in Heap, and the Used Memory in Heap

- A line chart representing the JVM Non Heap Usage (MB)

Backends Information

- Berkeley DB JE version, Number of Backends and the total number of Entry Count in the directory server

- A bar chart representing, for each backend the number of owned entries, the current size of the DB cache and the Free Disk Space

Workqueue Information

- Current Request in the backlog of the workqueue, the Request Backlog Peak, Rejected Requests, and Configured Capacity of the workqueue

- A line chart representing the number of requests in the queue

Cache Information

Entry Cache Hits, Entry Cache Tries, Cached Entries, Cache Hit Ratio, and a line chart representing the number of hits Per Second and the Number of Tries Per Second

1.3.4.4 Directory Server Instance Replication Overview Page Metrics

The OUD Directory Server Replication Overview Page displays the following:

Local Replication Server

- Administration port

- Replication Enabled Replication Port, Missing Changes, Oldest Missing Changes, Replication Delay, Received Updates Per Second, Sent Updates Per Second, and Untrusted Changes Per Second

- A line chart representing the number of Missing Changes in the local replication server

- A line chart representing the age of the Oldest Missing Changes

Local Replication Domains

- A bar chart representing, for each domain, the average number of Replication Updates Received Per Second for this replication domain

- A bar chart representing, for each domain, the average number of Replication Updates Sent Per Second for this replication domain

Global Replication Report

The Global Replication Report provides a summary of all servers in a replicated topology, as well as the overall replication status across the topology.

Table 1–2 summarizes the metrics reported in the Global Replication Report *for each replication domain* in the topology:

Table 1–2   Global Replication Report for Each Domain in the Topology

Metric	Description
Host Name	Name of the host on which the directory server instance is running.
Admin Port	Administration port of the directory server instance.
Base DN	Base DN that is being replicated.
Entries	Number of entries in that base DN.
Replication Status	Status of the replication domain on this directory server. The status can be one of the following:
	Replication Ongoing. The connection to a replication server is established with the correct data set. Replication is working. If assured mode is used, then acknowledgements from this directory server are sent. For information about assured mode, see the Oracle® Fusion Middleware Administrator's Guide for Oracle Unified Directory 11g Release 2 (11.1.2).
	Degraded. The connection to a replication server is established with the correct data set. Replication is working in degraded mode as the directory server has numerous changes that are pending in the replication server queue. If assured mode is used, then acknowledgements from this directory server are not expected.
	Being Initialized. The connection to a replication server is established and a new data set is received from this connection (online import), to initialize the local back end.
	Requires Initialization. The connection to a replication server is established with a data set that is different from the rest of the topology. Replication is not working. Either the other directory servers of the topology should be initialized with a compatible data set, or this server should be initialized with another data set that is compatible with the other servers.
	Not Connected. The directory server is not connected to any replication server.
Missing Changes	Number of changes that are still missing on this server (and that have been applied to at least one other server in the topology).
Oldest Missing Change	Age (in seconds) of the oldest missing change that has not yet arrived on this server.
Received Updates Per Second	Average number of replication updates received by this server Per Second.
Sent Updates Per Second	Average number of replication updates sent by this server Per Second.
Untrusted Changes Per Second	Average number of changes Per Second that were made on an untrusted server, and not yet replicated to the topology.

Table 1–3 summarizes the metrics reported in the Global Replication Report *for each replication server* in the topology.

Table 1–3   Global Replication Report for Each Replication Server in the Topology

Metric	Description
Host Name	Name of the host on which the replication server instance is running.
Replication Port	Replication port of the replication server instance.

Table 1–3 (Cont.) Global Replication Report for Each Replication Server in the Topology

Metric	Description
Base DN	Base DN that is being replicated.
Missing Changes	Number of changes that still need to be replayed on any server in the topology.
Oldest Missing Change	Age (in seconds) of the oldest missing change from any server in the topology.

Table 1–4 summarizes the metrics reported in the Global Replication Report *for the entire topology*.

Table 1–4 Global Replication Report for the Entire Topology

Metric	Description
Missing Changes	The number of changes that still need to be replayed on any server in the topology.
Age of Oldest Missing Change	The age (in seconds) of the oldest missing change from any server in the topology.

1.3.5 Summary of Proxy Server Instance Monitoring Information

- Proxy Server Instance Home Page Metrics

- Directory Server Instance Performance Summary Page Metrics

- Proxy Server Instance Resource Usage Page Metrics

- Proxy Server Instance Remote Servers Page Metrics

1.3.5.1 Proxy Server Instance Home Page Metrics

The proxy server instance Home page provides the following basic information:

- General information about the proxy server instance and its current status including: up time, the administration port, the full version of the server, install and instance paths, and server role

- Availability of the server

- The current load of the LDAP server with the number of Operations Per Second, the Average etime Per Operation, the number of Connections Per Second, the number of Current Connections, and the Connections Peak

- List of configured suffixes with the server role, the network groups, and the associated algorithms

- List of configured connection handlers with the type, the port number, whether connection handler is enabled or disabled, Average etime (ms) Per Operation, and the number of Operations Per Second Since the Last Collection

- List of remote servers with, for each server, the name, the host name, the port number, the SSL port number, the suffix and workflow element, the status of the remote server, the last up time, and the last down time

- Performance overview with line charts representing the number of Operations Completed, the Operations eTime, the number of connections, and the CPUusage.

In addition, the Home page displays any alerts that might have been generated by the monitored server instance.

1.3.5.2 Proxy Server Instance Performance Summary Page Metrics

The OUD Proxy Server Performance Summary Page displays the following:

- Current Load of the server with the number Operations Per Second, the Average eTime, the number of Connections Per Second, the number of Current Connections, and Connections Peak

- A pie chart representing with the number of completed Operations compared to the Unsuccessful Operations Per Second

- Two bar charts representing, for each read and write operation, the number of Operations Per Second

- For each operation type, the number of Operations Per Second and the associated elapsed time

- Line charts representing the number of Operations Completed, the Operations eTime, the number of connections, and the CPU usage

1.3.5.3 Proxy Server Instance Resource Usage Page Metrics

The OUD Proxy Server Resource Summary Page displays the following:

JVM Information
- JVM information like the java version, Java home, Java Architecture, Max allowed Memory (MB), Total Memory (MB), Used Memory (MB) and the free memory (MB)

- A line chart representing the Free Memory in Heap, and the Used Memory in the heap

- A line chart representing the JVM Non Heap Usage (MB)

Request Backlog Information
- Current Request in the backlog of the workqueue, the request backlog peak, Rejected Requests

- A line chart representing the number of requests in the queue

Global Index Shared Cache Space Usage Information
- Cache name, Used In, Used Space

- A line chart representing the amount of Used Space of the global index cache if configured

1.3.5.4 Proxy Server Instance Remote Servers Page Metrics

The OUD Proxy Server Remote Servers Page displays the following:

- List of Remote Data sources with for each remote data sources:
  Name, Hostname, Port number, SSL port number, Suffix/WFE, Status, Last Up time, Last Down time, Connection Pool Used, Read Operation Per Second, Writes Operations Per Second, and number of Silent Binds Per Second

- A bar chart representing, for each remote server, the number of Failed Operations, number of Aborted Operations, and the number of Completed Operations

- A bar chart representing the number of Read Operations for each remote server

- A bar chart representing the number of Write Operations Per Second for each remote server

- A bar chart representing, for each remote server, the eTime of Failed Operations, of Aborted Operations and Completed Operations

- A bar chart representing the eTime of Read Operation for each remote server

- A bar chart representing the eTime of Write Operations Per Second for each remote server

1.3.6 Summary of Replication Gateway Monitoring Information

- Replication Gateway Instance Home Page Metrics

- Replication Gateway Instance Resources Usage Page Metrics

- Replication Gateway Instance Replication Overview Page Metrics

1.3.6.1 Replication Gateway Instance Home Page Metrics

The replication gateway instance Home page provides the following basic information:

- General information about the replication gateway instance and its the current status including: up time, administration port, full version of the server, install and instance paths, server role, and whether replication is enabled or disabled

- Availability of the server

- List of configured suffixes with replication status, the Updates Sent to ODSEE Per Second, Updates Received from ODSEE Per Second, Updates Sent to OUD Per Second, and Updates Received from OUD Per Second

- Performance overview with line charts representing the number of updates sent to ODSEE Per Second, the number of Updates Received from ODSEE Per Second, the number of Updates Sent to OUD Per Second, and the number of Updates Received from OUD Per Second

In addition, the Home page displays any alerts that might have been generated by the monitored replication gateway instance.

1.3.6.2 Replication Gateway Instance Resources Usage Page Metrics

The OUD Replication Gateway Resource Usage Page displays the following:

JVM Information
- VM information: the Java version, Java home, Java Architecture, Max Allowed Memory (MB), Total Memory (MB), Used Memory (MB) and the Free Memory (MB)

- A line chart representing the Free Memory in Heap, and the Used Memory in the heap

- A line chart representing the JVM Non Heap Usage (MB)

1.3.6.3 Replication Gateway Instance Replication Overview Page Metrics

The OUD Replication Gateway Replication Overview Page displays the following:

Local Replication Server
- Administration port

- Replication Enabled Replication Port, Missing Changes, Oldest Missing Changes, Replication Delay, Received Updates Per Second, Sent Updates Per Second, Untrusted Changes Per Second

- A line chart representing the number missing changes in the local replication server

- A line chart representing the age of the Oldest Missing Changes

Local Replication Domains
- A bar chart representing, for each domain, the average number of Replication Updates Received Per Second for this replication domain

- A bar chart representing, for each domain, the average number of Replication Updates Sent Per Second for this replication domain

Global Replication Report
The Global Replication Report provides a summary of all servers in a replicated topology, as well as the overall replication status across the topology.

Table 1–5 summarizes the metrics reported in the Global Replication Report *for each replication domain* in the topology:

Table 1–5 Global Replication Report for Each Domain in the Topology

Metric	Description
Host Name	Name of the host on which the directory server instance is running.
Admin Port	Administration port of the directory server instance.
Base DN	Base DN that is being replicated.
Entries	Number of entries in that base DN.
Replication Status	Status of the replication domain on this directory server. The status can be one of the following:
	Replication Ongoing. The connection to a replication server is established with the correct data set. Replication is working. If assured mode is used, then acknowledgements from this directory server are sent. For information about assured mode, see the Oracle® Fusion Middleware Administrator's Guide for Oracle Unified Directory 11g Release 2 (11.1.2).
	Degraded. The connection to a replication server is established with the correct data set. Replication is working in degraded mode as the directory server has numerous changes that are pending in the replication server queue. If assured mode is used, then acknowledgements from this directory server are not expected.
	Being Initialized. The connection to a replication server is established and a new data set is received from this connection (online import), to initialize the local back end.
	Requires Initialization. The connection to a replication server is established with a data set that is different from the rest of the topology. Replication is not working. Either the other directory servers of the topology should be initialized with a compatible data set, or this server should be initialized with another data set that is compatible with the other servers.
	Not Connected. The directory server is not connected to any replication server.
Missing Changes	Number of changes that are still missing on this server (and that have been applied to at least one other server in the topology).
Oldest Missing Change	Age (in seconds) of the oldest missing change that has not yet arrived on this server.

Table 1–5   (Cont.) Global Replication Report for Each Domain in the Topology

Metric	Description
Received Updates Per Second	Average number of replication updates received by this server per second.
Sent Updates Per Second	Average number of replication updates sent by this server per second.
Untrusted Changes Per Second	Average number of changes per second that were made on an untrusted server, and not yet replicated to the topology.

Table 1–6 summarizes the metrics reported in the Global Replication Report *for each replication server* in the topology.

Table 1–6   Global Replication Report for Each Replication Server in the Topology

Metric	Description
Host Name	Name of the host on which the replication server instance is running.
Replication Port	Replication port of the replication server instance.
Base DN	Base DN that is being replicated.
Missing Changes	Number of changes that still need to be replayed on any server in the topology.
Oldest Missing Change	Age (in seconds) of the oldest missing change from any server in the topology.

Table 1–7 summarizes the metrics reported in the Global Replication Report *for the entire topology*.

Table 1–7   Global Replication Report for the Entire Topology

Metric	Description
Missing Changes	The number of changes that still need to be replayed on any server in the topology.
Age of Oldest Missing Change	The age (in seconds) of the oldest missing change from any server in the topology.

1.4 Uninstalling the Enterprise Manager Plug-in for OUD

To uninstall the Enterprise Manager Plug-in for OUD, complete the following tasks:

- Remove all target instances of the plug-in.
  See Section 1.4.1, "To Remove Target Instances of the Plug-in."

- Undeploy the plug-in.
  See Section 1.4.2, "Undeploying the Plug-in."

You must remove all target instances of the plug-in before you can undeploy the plug-in. For example, if you have three OUD instances with two instances deployed to one agent and the third instance deployed to a second agent, you must Perform the following tasks:

- Remove instance 1 (the target instance) on agent 1.

- Remove instance 2 (the second target instance) on agent 1.

- Remove instance 3 (the third target instance) on agent 2.

You can then undeploy the plug-in from the Oracle Enterprise Manager Cloud Control.

1.4.1 To Remove Target Instances of the Plug-in

You can remove a target instance by following this procedure. Note that when you remove a target instance, all corresponding data (monitoring data that has already been collected) is deleted.

For each target instance of the plug-in that you want to remove, complete the following steps:

1. Select **Targets** on the navigation bar from the Oracle Enterprise Manager home page.

   The Hosts page is displayed.

2. Select **All Targets** on the Hosts page.

   The All Targets page displays the list of all targets in the Oracle Enterprise Manager Cloud Control including hosts, agents, databases, directory servers and others.

   The target instance name is displayed in the Name column.

3. Click **Target Setup > Remove Target** to select the target instance name.

4. Click **Remove**.

   The following message is displayed: "You have chosen to remove *target_instance_name* (OUD Directory Server, OUD Proxy Server or OUD Replication Gateway). Do you wish to proceed?"

   Click **Yes**. A confirmation message is displayed.

The target instance has now been removed. Repeat these steps to remove any additional target instances of the Enterprise Manager Plug-in for OUD.

When all target instances of the plug-in have been removed, you can undeploy and then delete the Plug-in from the Oracle Enterprise Manager Cloud Control, as described in the following sections.

1.4.2 Undeploying the Plug-in

Follow the detailed instructions in the following sections of the *Oracle Enterprise Manager Cloud Control Administrator's Guide*:

- "Undeploying the Plug-in from Oracle Management Service"

  http://docs.oracle.com/cd/E24628_01/doc.121/e24473/plugin_mngr.htm#CJGEIECI

- "Undeploying the Plug-in from Management Agents"

  http://docs.oracle.com/cd/E24628_01/doc.121/e24473/plugin_mngr.htm#CJGEFADI

1.5 Limitations of this Release

The following limitations Pertain to the JVM Resources Report that is generated for each of the three server types.

- The CPU Usage graph is available *only* if:

- The target instance is running on the same host as the Management Agent in which the instance is registered

- The target instance and the Management Agent are running with the same access rights

■ The Non-Heap Usage graph is not accurate (the reported metric is incorrect).

■ If Oracle Management Agent is running on an HP-UX system, then OUD instances should be installed on a path which is limited to 70 characters.

A

OUD Directory Server Instance Metrics

This Appendix contains the following sections:

- System Resource Information - CPU Usage Metric

- Server Resource Information Metrics

A.1 Response Metrics

- Status

- Details

A.1.1 Status

Target Version
All versions

Evaluation and Collection Frequency
Every 1 minute

Upload Frequency
After every sample

Operator
Not equal

Default Critical Threshold
0

Alert Text
The OUD Server is down.

A.1.2 Details

Target Version
All versions

Collection Frequency
Every 1 minute

A.2 General Information Metrics

- Full Version
- Vendor Name
- Current Time
- Start Time
- Instance Path
- Install Path
- Java Version
- Java Home
- Java Architecture

A.2.1 Full Version

Target Version
All versions

Collection Frequency
Every 24 hours

A.2.2 Vendor Name

Target Version
All versions

Collection Frequency
Every 24 hours

A.2.3 Current Time

Target Version
All versions

Collection Frequency
Every 24 hours

A.2.4 Start Time

Target Version
All versions

Collection Frequency
Every 24 hours

A.2.5 Instance Path

Target Version
All versions

Collection Frequency
Every 24 hours

A.2.6 Install Path

Target Version
All versions

Collection Frequency
Every 24 hours

A.2.7 Java Version

Target Version
All versions

Collection Frequency
Every 24 hours

A.2.8 Java Home

Target Version
All versions

Collection Frequency
Every 24 hours

A.2.9 Java Architecture

Target Version
All versions

Collection Frequency
Every 24 hours

A.3 Server Role Metrics

- Directory Server

- Proxy

- Distributor

- Load Balancer

- Replication Gateway

- Role

A.3.1 Directory Server

Target Version
All versions

Evaluation and Collection Frequency
Every 24 hours

Upload Frequency
After every sample

Operator
Match

Default Critical Threshold
False

Alert Text
The target is not a LDAP Storage directory.

A.3.2 Proxy

Target Version
All versions

Collection Frequency
Every 24 hours

A.3.3 Distributor

Target Version
All versions

Collection Frequency
Every 24 hours

A.3.4 Load Balancer

Target Version
All versions

Collection Frequency
Every 24 hours

A.3.5 Replication Gateway

Target Version
All versions

Evaluation and Collection Frequency
Every 24 hours

Upload Frequency
After every sample

Operator
Match

Default Critical Threshold
True

Alert Text
Please Select the oracle_oud_gateway plugin to monitor your instance.

A.3.6 Role

Target Version
All versions

Collection Frequency
Every 24 hours

A.4 Naming Contexts Configuration Metrics

- Backend Name
- Base DN
- Entries Count
- Replicated

■ Oracle Integration

A.4.1 Backend Name

Target Version
All versions

Collection Frequency
Every 24 hours

A.4.2 Base DN

Target Version
All versions

Collection Frequency
Every 24 hours

A.4.3 Entries Count

Target Version
All versions

Collection Frequency
Every 24 hours

A.4.4 Replicated

Target Version
All versions

Collection Frequency
Every 24 hours

A.4.5 Oracle Integration

Target Version
All versions

Collection Frequency
Every 24 hours

A.5 Backend Information Metrics

- Backend Name
- JE Version
- Entries Count
- Free Disk (MB)
- Disk State
- Disk Directory
- Current Size of the DB cach (MB)
- Configured Max Size of the DB Cach (MB)
- Total Number of Cache Misses Since Startup
- Cache Misses Per Second Since Startup
- Cache Misses Per Second
- Total Number of Writes in DB Since Startup
- Number of Writes in DB Per Second Since Startup
- Number of Writes in DB Per Second
- Total Number of Reads in DB Since Startup
- Number of Reads in DB Per Second Since Startup
- Number of Reads in DB Per Second
- Cleaner Backlog
- Total number of Metadata Misses Since Startup
- Number of Metadata Misses Per Second Since Startup
- Number of Metadata Misses Per Second
- Current Size of the Metadata (Bottom Internal Nodes)

A.5.1 Backend Name

Target Version
All versions

Collection Frequency
Every 24 hours

A.5.2 JE Version

Target Version
All versions

Collection Frequency
Every 24 hours

A.5.3 Entries Count

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
The number of Entries value crossed warning threshold or critical threshold.

A.5.4 Free Disk (MB)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Less than

Alert Text
The Free Disk Space value crossed warning threshold or critical threshold.

A.5.5 Disk State

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Match

Alert Text
Disk State value crossed warning threshold or critical threshold.

A.5.6 Disk Directory

Target Version
All versions

Collection Frequency
Every 5 minutes

A.5.7 Current Size of the DB cach (MB)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Current Size of the DB cache value crossed warning threshold or critical threshold.

A.5.8 Configured Max Size of the DB Cach (MB)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Current Size of the DB cache value crossed warning threshold or critical threshold.

A.5.9 Total Number of Cache Misses Since Startup

Target Version
All versions

Collection Frequency

A.5.10 Cache Misses Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Number of cache Misses Per Second Since Startup value crossed warning threshold or critical threshold.

A.5.11 Cache Misses Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Number of cache Misses Per Second value crossed warning threshold or critical threshold.

A.5.12 Total Number of Writes in DB Since Startup

Target Version
All versions

Collection Frequency

A.5.13 Number of Writes in DB Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Number of Writes in DB Per Second value crossed warning threshold or critical threshold.

A.5.14 Number of Writes in DB Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Number of Writes in DB Per Second value crossed warning threshold or critical threshold.

A.5.15 Total Number of Reads in DB Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.5.16 Number of Reads in DB Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Ever 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Number of Read in DB Per Second Since Startup value crossed warning threshold or critical threshold.

A.5.17 Number of Reads in DB Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Alert Text
Number of Read in DB Per Second value crossed warning threshold or critical threshold.

A.5.18 Cleaner Backlog

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Cleaner Backlog value crossed warning threshold or critical threshold.

A.5.19 Total number of Metadata Misses Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.5.20 Number of Metadata Misses Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Number of Metadata Misses Per Second Since Startup value crossed warning
threshold or critical threshold.

A.5.21 Number of Metadata Misses Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Number of Metadata Misses Per Second value crossed warning threshold or critical
threshold.

A.5.22 Current Size of the Metadata (Bottom Internal Nodes)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Current Size of the Metadata (Bottom Internal Nodes) value crossed warning threshold or critical threshold.

A.6 Entry Cache Metrics

- Total Number of Hits Since Startup
- Total Number of Hits Per Second Since Startup
- Number of Hits Per Second
- Total Number of Tries Since Startup
- Total Number of Tries Per Second Since Startup
- Number of Tries Per Second
- Current Number of Entries in the Cache
- Entry Cache Hit Ratio

A.6.1 Total Number of Hits Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

Upload Frequency

A.6.2 Total Number of Hits Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Less than

Alert Text
Number of Hits Per Second Since Startup value crossed warning threshold or critical threshold.

A.6.3 Number of Hits Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Less than

Alert Text
Number of Hits Per Second value crossed warning threshold or critical threshold.

A.6.4 Total Number of Tries Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.6.5 Total Number of Tries Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
Greater than

Alert Text
Number of Tries Per Second Since Startup value crossed warning threshold or critical threshold.

A.6.6 Number of Tries Per Second

Target Version
All versions

Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Number of Tries Per Second value crossed warning threshold or critical threshold.

A.6.7 Current Number of Entries in the Cache

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Current Number of entries in the Cache value crossed warning threshold or critical threshold.

A.6.8 Entry Cache Hit Ratio

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
Greater than

Operator
Greater than

Alert Text
Entry Cache Hit Ratio value crossed warning threshold or critical threshold.

A.7 WorkQueue Metrics

- Max Number of Requests in the Queue
- Current Number of requests in the Queue
- Number of Rejected Requests Due to Full Queue
- Maximum Requests Allowed in the Queue

A.7.1 Max Number of Requests in the Queue

Target Version
All versions

Collection Frequency
Every 5 minutes

A.7.2 Current Number of requests in the Queue

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Current Number of requests in the Queue value crossed warning threshold or critical threshold.

A.7.3 Number of Rejected Requests Due to Full Queue

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Number of Rejected Requests due to Full Queue value crossed warning threshold or critical threshold.

A.7.4 Maximum Requests Allowed in the Queue

Target Version
All versions

Collection Frequency

A.8 Connections Metrics

- Connections Peak
- Current Connections
- Total Connections
- Connections Per Second Since Startup
- Connections Per Second

A.8.1 Connections Peak

Target Version
All versions

Collection Frequency
Every 5 minutes

A.8.2 Current Connections

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Current Connections value crossed warning threshold or critical threshold.

A.8.3 Total Connections

Target Version
All versions

Collection Frequency
Every 5 minutes

A.8.4 Connections Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Connections Per Second Since Startup value crossed warning threshold or critical threshold.

A.8.5 Connections Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Connections Per Second value crossed warning threshold or critical threshold.

A.9 Operations Aggregation Metrics

- Operations Initiated Since Startup
- Operations Initiated Per Second Since Startup
- Operations Initiated Per Second
- Operations Completed Since Startup
- Operations Completed Per Second Since Startup
- Operations Completed Per Second
- Operations Unsuccessful Since Startup
- Operations Unsuccessful Per Second Since Startup
- Operations Unsuccessful Per Second
- Elapsed Time (ms) for all Operations Since Startup
- Average Elapsed Time (ms) Per Operation Since Startup
- Average Elapsed Time (ms) Per Operation
- Returned Search Result Entries Since Startup
- Returned Search Result Entries Per Second Since Startup
- Returned Search Result Entries Per Second
- Total MB Read
- KB Read Per Second Since Startup
- KB Read Per Second
- Total MB Written
- KB Written Per Second Since Startup
- KB Written Per Second

A.9.1 Operations Initiated Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.9.2 Operations Initiated Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text

Total Operations Initiated Per Second Since Startup value crossed warning threshold or critical threshold.

A.9.3 Operations Initiated Per Second

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency

After every sample

Operator

Greater than

Alert Text

Total Operations Initiated Per Second value crossed warning threshold or critical threshold.

A.9.4 Operations Completed Since Startup

Target Version

All versions

Collection Frequency

Every 5 minutes

A.9.5 Operations Completed Per Second Since Startup

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency

After every sample

Operator

Greater than

Alert Text

Total Operations Completed Per Second Since Startup value crossed warning threshold or critical threshold.

A.9.6 Operations Completed Per Second

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Total Operations Completed Per Second value crossed warning threshold or critical threshold.

A.9.7 Operations Unsuccessful Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.9.8 Operations Unsuccessful Per Second Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.9.9 Operations Unsuccessful Per Second

Target Version
All versions

Collection Frequency
Every 5 minutes

A.9.10 Elapsed Time (ms) for all Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.9.11 Average Elapsed Time (ms) Per Operation Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation Since Startup value crossed warning threshold or critical threshold.

A.9.12 Average Elapsed Time (ms) Per Operation

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation value crossed warning threshold or critical threshold.

A.9.13 Returned Search Result Entries Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.9.14 Returned Search Result Entries Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Returned Search Result Entries Per Second Since Startup value crossed warning threshold or critical threshold.

A.9.15 Returned Search Result Entries Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Returned Search Result Entries Per Second value crossed warning threshold or critical threshold.

A.9.16 Total MB Read

Target Version
All versions

Collection Frequency
Every 5 minutes

A.9.17 KB Read Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
KB Read Per Second Since Startup value crossed warning threshold or critical threshold.

A.9.18 KB Read Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
KB Read Per Second value crossed warning threshold or critical threshold.

A.9.19 Total MB Written

Target Version
All versions

Collection Frequency
Every 5 minutes

A.9.20 KB Written Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
KB Written Per Second Since Startup value crossed warning threshold or critical threshold.

A.9.21 KB Written Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
KB Written Per Second value crossed warning threshold or critical threshold.

A.10 Operations Read Metrics

- Read Operations Since Startup
- Read Operations Per Second Since Startup
- Read Operations Per Second
- Total Elapsed Time (ms) for All Read Operations Since Startup
- Average Elapsed Time (ms) Per Operation Since Startup
- Average Elapsed Time Per Operation (ms)
- Bind Operations Since Startup
- Bind Operations Per Second Since Startup
- Bind Operations Per Second
- Search Operations Since Startup
- Search Operations Per Second Since Startup
- Search Operations Per Second
- One Level Search Operations Since Startup
- One Level Search Operations Per Second Since Startup
- One Level Search Operations Per Second
- Subtree Search Operations Since Startup
- Subtree Search Operations Per Second Since Startup
- Subtree Search Operations Per Second
- Unbind Operations Since Startup
- Unbind Operations Per Second Since Startup
- Unbind Operations Per Second
- Abandon Operations Since Startup

- Abandon Operations Per Second Since Startup
- Abandon Operations Per Second
- Compare Operations Since Startup
- Compare Operations Per Second Since Startup
- Compare Operations Per Second
- Elapsed Time for Bind Operations Since Startup
- Average Elapsed Time Per Bind Since Startup
- Average Elapsed Time Per Bind
- Elapsed Time for Search Operations Since Startup
- Average Elapsed Time Per Search Since Startup
- Average Elapsed Time Per Search
- Elapsed Time for Unbind Operations Since Startup
- Average Elapsed Time Per Unbind Since Startup
- Average Elapsed Time Per Unbind
- Elapsed Time for Abandon Operations Since Startup
- Average Elapsed Time Per Abandon Since Startup
- Average Elapsed Time Per Abandon
- Elapsed Time for Compare Operations Since Startup
- Average Elapsed Time Per Compare Since Startup
- Average Elapsed Time Per Compare

A.10.1 Read Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.10.2 Read Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Read Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.10.3 Read Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Alert Text
Read Operations Per Second value crossed warning threshold or critical threshold.

A.10.4 Total Elapsed Time (ms) for All Read Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.10.5 Average Elapsed Time (ms) Per Operation Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation Since Startup value crossed warning threshold or critical threshold.

A.10.6 Average Elapsed Time Per Operation (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation value crossed warning threshold or critical threshold.

A.10.7 Bind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.10.8 Bind Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

A.10.9 Bind Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Bind Operations Per Second value crossed warning threshold or critical threshold.

A.10.10 Search Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.10.11 Search Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Search Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.10.12 Search Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Search Operations Per Second value crossed warning threshold or critical threshold.

A.10.13 One Level Search Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.10.14 One Level Search Operations Per Second Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.10.15 One Level Search Operations Per Second

Target Version
All versions

Collection Frequency
Every 5 minutes

A.10.16 Subtree Search Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.10.17 Subtree Search Operations Per Second Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.10.18 Subtree Search Operations Per Second

Target Version
All versions

Collection Frequency
Every 5 minutes

A.10.19 Unbind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

Target Version
All versions

Collection Frequency
Every 5 minutes

A.10.20 Unbind Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Unbind Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.10.21 Unbind Operations Per Second

Target Version
All versions

Collection Frequency
Every 5 minutes

A.10.22 Abandon Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.10.23 Abandon Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Abandon Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.10.24 Abandon Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Abandon Operations Per Second value crossed warning threshold or critical threshold.

A.10.25 Compare Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.10.26 Compare Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Compare Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.10.27 Compare Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Compare Operations Per Second value crossed warning threshold or critical threshold.

A.10.28 Elapsed Time for Bind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.10.29 Average Elapsed Time Per Bind Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Bind Since Startup value crossed warning threshold or critical threshold.

A.10.30 Average Elapsed Time Per Bind

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Bind value crossed warning threshold or critical threshold.

A.10.31 Elapsed Time for Search Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.10.32 Average Elapsed Time Per Search Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Search Since Startup value crossed warning threshold or critical threshold.

A.10.33 Average Elapsed Time Per Search

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Search value crossed warning threshold or critical threshold.

A.10.34 Elapsed Time for Unbind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.10.35 Average Elapsed Time Per Unbind Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Unbind Since Startup value crossed warning threshold or critical threshold.

A.10.36 Average Elapsed Time Per Unbind

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Unbind value crossed warning threshold or critical threshold.

A.10.37 Elapsed Time for Abandon Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.10.38 Average Elapsed Time Per Abandon Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Abandon Since Startup value crossed warning threshold or critical threshold.

A.10.39 Average Elapsed Time Per Abandon

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Abandon value crossed warning threshold or critical threshold.

A.10.40 Elapsed Time for Compare Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.10.41 Average Elapsed Time Per Compare Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Compare Since Startup value crossed warning threshold or critical threshold.

A.10.42 Average Elapsed Time Per Compare

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Compare value crossed warning threshold or critical threshold.

A.11 Operations Write Metrics

- Write Operations Since Startup
- Write Operations Per Second Since Startup
- Write Operations Per Second
- Total Elapsed Time (ms) for all Write Operations Since Startup
- Average Elapsed Time (ms) Per Operation Since Startup
- Average Elapsed Time Per Operation (ms)
- Modify Operations Since Startup
- Modify Operations Per Second Since Startup
- Modify Operations Per Second
- Add Operations Since Startup
- Add Operations Per Second Since Startup
- Add Operations Per Second
- Mod DN Operations Since Startup
- Mod DN Operations Per Second Since Startup
- Mod DN Operations Per Second

- Delete Operations Since Startup
- Delete Operations Per Second Since Startup
- Delete Operations Per Second
- Elapsed Time for Modify Operations Since Startup
- Average Elapsed Time Per Modify Since Startup
- Average Elapsed Time Per Modify
- Elapsed Time for Add Operations Since Startup
- Average Elapsed Time Per Add Since Startup
- Average Elapsed Time Per Add
- Elapsed Time for Mod DN Operations Since Startup
- Average Elapsed Time Per Mod DN Since Startup
- Average Elapsed Time Per Mod DN
- Elapsed Time for Delete Operations Since Startup
- Average Elapsed Time Per Delete Since Startup
- Average Elapsed Time Per Delete

A.11.1 Write Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.11.2 Write Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Write Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.11.3 Write Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Write Operations Per Second value crossed warning threshold or critical threshold.

A.11.4 Total Elapsed Time (ms) for all Write Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.11.5 Average Elapsed Time (ms) Per Operation Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation Since Startup value crossed warning threshold or critical threshold.

A.11.6 Average Elapsed Time Per Operation (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation value crossed warning threshold or critical threshold.

A.11.7 Modify Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.11.8 Modify Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Modify Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.11.9 Modify Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Modify Operations Per Second value crossed warning threshold or critical threshold.

A.11.10 Add Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.11.11 Add Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Add Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.11.12 Add Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Alert Text
Add Operations Per Second value crossed warning threshold or critical threshold.

A.11.13 Mod DN Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.11.14 Mod DN Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Mod DN Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.11.15 Mod DN Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Mod DN Operations Per Second value crossed warning threshold or critical threshold.

A.11.16 Delete Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.11.17 Delete Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delete Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.11.18 Delete Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delete Operations Per Second value crossed warning threshold or critical threshold.

A.11.19 Elapsed Time for Modify Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.11.20 Average Elapsed Time Per Modify Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Modify Since Startup value crossed warning threshold or critical threshold.

A.11.21 Average Elapsed Time Per Modify

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Modify value crossed warning threshold or critical threshold.

A.11.22 Elapsed Time for Add Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.11.23 Average Elapsed Time Per Add Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Add Since Startup value crossed warning threshold or critical threshold.

A.11.24 Average Elapsed Time Per Add

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Add value crossed warning threshold or critical threshold.

A.11.25 Elapsed Time for Mod DN Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.11.26 Average Elapsed Time Per Mod DN Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Mod DN Since Startup value crossed warning threshold or critical threshold.

A.11.27 Average Elapsed Time Per Mod DN

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Mod DN value crossed warning threshold or critical threshold.

A.11.28 Elapsed Time for Delete Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.11.29 Average Elapsed Time Per Delete Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Delete Since Startup value crossed warning threshold or critical threshold.

A.11.30 Average Elapsed Time Per Delete

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Delete value crossed warning threshold or critical threshold.

A.12 Operations Extended Metrics

- Extended Operations Since Startup

- Extended Operations Per Second Since Startup

- Extended Operations Per Second

- Elapsed Time for Extended Operations Since Startup

- Average Elapsed Time Per Extended Since Startup

- Average Elapsed Time Per Extended

A.12.1 Extended Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.12.2 Extended Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Extended Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.12.3 Extended Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Extended Operations Per Second value crossed warning threshold or critical threshold.

A.12.4 Elapsed Time for Extended Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.12.5 Average Elapsed Time Per Extended Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Extended Since Startup value crossed warning threshold or critical threshold.

A.12.6 Average Elapsed Time Per Extended

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Extended value crossed warning threshold or critical threshold.

A.13 Replication Configuration Metrics

- Replication Configured
- Replication Server Configured
- Replication Domain Configured
- Server Trusted

A.13.1 Replication Configured

Target Version
All versions

Collection Frequency
Every 5 minutes

A.13.2 Replication Server Configured

Target Version
All versions

Collection Frequency
Every 5 minutes

A.13.3 Replication Domain Configured

Target Version
All versions

Collection Frequency
Every 5 minutes

A.13.4 Server Trusted

Target Version
All versions

Collection Frequency
Every 5 minutes

A.14 Replication Server Aggregation Metrics

- Port
- Age of Oldest Missing Change (sec)
- Missing Changes

A.14.1 Port

Target Version
All versions

Collection Frequency
Every 5 minutes

A.14.2 Age of Oldest Missing Change (sec)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Alert Text
Age of Oldest Missing Change value crossed warning threshold or critical threshold.

A.14.3 Missing Changes

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Number of Missing Changes value crossed warning threshold or critical threshold.

A.15 Replication Server Information Metrics

- Host Name
- Replication Port
- Base DN
- Administration Port
- Replication Group ID
- Age of Oldest Missing Change (sec)
- Missing Changes
- Generation ID

A.15.1 Host Name

Target Version
All versions

Collection Frequency
Every 5 minutes

A.15.2 Replication Port

Target Version
All versions

Collection Frequency
Every 5 minutes

A.15.3 Base DN

Target Version
All versions

Collection Frequency
Every 5 minutes

A.15.4 Administration Port

Target Version
All versions

Collection Frequency
Every 5 minutes

A.15.5 Replication Group ID

Target Version
All versions

Collection Frequency
Every 5 minutes

A.15.6 Age of Oldest Missing Change (sec)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text

Age of Oldest Missing Change value crossed warning threshold or critical threshold.

A.15.7 Missing Changes

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency

After every sample

Operator

Greater than

Alert Text

Number of Missing Changes value crossed warning threshold or critical threshold.

A.15.8 Generation ID

Target Version

All versions

Collection Frequency

Every 5 minutes

A.16 Replication Domain Aggregation Metrics

- Age of Oldest Missing Change (sec)
- Missing Changes
- Delay (seconds)
- Pending Updates
- Remote Pending Updates
- Resolved Modify Conflicts
- Naming Conflicts
- Resolved Naming Conflicts
- Resolved Naming Conflicts (%)
- Sent Updates
- Sent Updates Per Second

- Received Updates
- Received Updates Per Second
- Replayed Updates
- Replayed Updates Per Second
- Successful Replayed Updates
- Successful Replayed Updates (%)
- Untrusted Changes
- Untrusted Changes Per Second
- Total Lost Connections
- Delta Lost Connections
- Lost connections Per Second

A.16.1 Age of Oldest Missing Change (sec)

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Age of Oldest Missing Change value crossed warning threshold or critical threshold.

A.16.2 Missing Changes

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Number of Missing Changes value crossed warning threshold or critical threshold.

A.16.3 Delay (seconds)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delay (sec) value crossed warning threshold or critical threshold.

A.16.4 Pending Updates

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Pending Updates value crossed warning threshold or critical threshold.

A.16.5 Remote Pending Updates

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Remote Pending Updates value crossed warning threshold or critical threshold.

A.16.6 Resolved Modify Conflicts

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Resolved Modify Conflicts value crossed warning threshold or critical threshold.

A.16.7 Naming Conflicts

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Naming Conflicts value crossed warning threshold or critical threshold.

A.16.8 Resolved Naming Conflicts

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Resolved Naming Conflicts value crossed warning threshold or critical threshold.

A.16.9 Resolved Naming Conflicts (%)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Percentage of Resolved Naming Conflicts value crossed warning threshold or critical threshold.

A.16.10 Sent Updates

Target Version
All versions

Collection Frequency
Every 5 minutes

A.16.11 Sent Updates Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Sent Updates Per Second value crossed warning threshold or critical threshold.

A.16.12 Received Updates

Target Version
All versions

Collection Frequency
Every 5 minutes

A.16.13 Received Updates Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Received Updates Per Second value crossed warning threshold or critical threshold.

A.16.14 Replayed Updates

Target Version
All versions

Collection Frequency
Every 5 minutes

A.16.15 Replayed Updates Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Replayed Updates Per Second value crossed warning threshold or critical threshold.

A.16.16 Successful Replayed Updates

Target Version
All versions

Collection Frequency
Every 5 minutes

A.16.17 Successful Replayed Updates (%)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Alert Text
Percentage of Successful Replayed Updates value crossed warning threshold or critical threshold.

A.16.18 Untrusted Changes

Target Version
All versions

Collection Frequency
Every 5 minutes

A.16.19 Untrusted Changes Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Untrusted Changes Per Second value crossed warning threshold or critical threshold.

A.16.20 Total Lost Connections

Target Version
All versions

Collection Frequency
Every 5 minutes

A.16.21 Delta Lost Connections

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delta Lost Connections value crossed warning threshold or critical threshold.

A.16.22 Lost connections Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Lost connections Per Second value crossed warning threshold or critical threshold.

A.17 Replication Domain Information Metrics

- Host Name
- Administration Port
- Base DN
- Replication Group ID
- Status
- Entries
- Age of Oldest Missing Change (sec)
- Missing Changes
- Delay (sec)
- Generation ID
- Connected Replication Server
- Pending Updates
- Remote Pending Updates
- Resolved Modify Conflicts
- Naming Conflicts
- Resolved Naming Conflicts

- Resolved Naming Conflicts (%)
- Resolved Naming Conflicts - Replication Connection Average (%)
- Sent Updates
- Sent Updates Per Second
- Received Updates
- Received Updates Per Second
- Replayed Updates
- Replayed Updates Per Second
- Successful Replayed Updates
- Successful Replayed Updates (%)
- Successful Replayed Updates (Repl Connection Avg) (%)
- Untrusted Changes
- Untrusted Changes Per Second
- Total Lost Connections
- Delta Lost Connections
- Lost connections Per Second

A.17.1 Host Name

Target Version
All versions

Collection Frequency
Every 5 minutes

A.17.2 Administration Port

Target Version
All versions

Collection Frequency
Every 5 minutes

A.17.3 Base DN

Target Version
All versions

Collection Frequency
Every 5 minutes

A.17.4 Replication Group ID

Target Version
All versions

Collection Frequency
Every 5 minutes

A.17.5 Status

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Alert Text
Entries value crossed warning threshold or critical threshold.

A.17.6 Entries

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Lost connections Per Second value crossed warning threshold or critical threshold.

A.17.7 Age of Oldest Missing Change (sec)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Age of Oldest Missing Change (sec) value crossed warning threshold or critical threshold.

A.17.8 Missing Changes

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Alert Text
Missing Changes value crossed warning threshold or critical threshold.

A.17.9 Delay (sec)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delay (sec) value crossed warning threshold or critical threshold.

A.17.10 Generation ID

Target Version
All versions

Collection Frequency
Every 5 minutes

A.17.11 Connected Replication Server

Target Version
All versions

Collection Frequency
Every 5 minutes

A.17.12 Pending Updates

Target Version
All versions

Collection Frequency
Every 5 minutes

A.17.13 Remote Pending Updates

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Remote Pending Updates value crossed warning threshold or critical threshold.

A.17.14 Resolved Modify Conflicts

Target Version
All versions

Collection Frequency
Every 5 minutes

A.17.15 Naming Conflicts

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Naming Conflicts value crossed warning threshold or critical threshold.

A.17.16 Resolved Naming Conflicts

Target Version
All versions

Collection Frequency
Every 5 minutes

A.17.17 Resolved Naming Conflicts (%)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Percentage of Resolved Naming Conflicts value crossed warning threshold or critical threshold.

A.17.18 Resolved Naming Conflicts - Replication Connection Average (%)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Percentage of Resolved Naming Conflicts (Repl Connection Avg) value crossed warning threshold or critical threshold.

A.17.19 Sent Updates

Target Version
All versions

Collection Frequency
Every 5 minutes

A.17.20 Sent Updates Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Sent Updates Per Second value crossed warning threshold or critical threshold.

A.17.21 Received Updates

Target Version
All versions

Collection Frequency
Every 5 minutes

A.17.22 Received Updates Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Received Updates Per Second value crossed warning threshold or critical threshold.

A.17.23 Replayed Updates

Target Version
All versions

Collection Frequency
Every 5 minutes

A.17.24 Replayed Updates Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Replayed Updates Per Second value crossed warning threshold or critical threshold.

A.17.25 Successful Replayed Updates

Target Version
All versions

Collection Frequency
Every 5 minutes

A.17.26 Successful Replayed Updates (%)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Percentage of Successful Replayed Updates value crossed warning threshold or critical threshold.

A.17.27 Successful Replayed Updates (Repl Connection Avg) (%)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Percentage of Successful Replayed Updates (Repl Connection Avg) value crossed warning threshold or critical threshold.

A.17.28 Untrusted Changes

Target Version
All versions

Collection Frequency
Every 5 minutes

A.17.29 Untrusted Changes Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Untrusted Changes Per Second value crossed warning threshold or critical threshold.

A.17.30 Total Lost Connections

Target Version
All versions

Collection Frequency
Every 5 minutes

A.17.31 Delta Lost Connections

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delta Lost Connections value crossed warning threshold or critical threshold.

A.17.32 Lost connections Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Lost connections Per Second value crossed warning threshold or critical threshold.

A.18 Replication Domain Assured Information Metrics

- Host Name
- Administration Port
- Base DN
- Safe Data Configured
- Safe Read Configured
- Safe Data Updates
- Delta Safe Data Updates Per Second
- Acknowledged Safe Data Updates
- Acknowledged Safe Data Updates (%)
- Acknowledged Safe Data Updates (Repl Connection Avg) (%)
- Safe Read Sent Updates
- Delta Safe Read Sent Updates Per Second
- Acknowledged Safe Read Sent Updates
- Acknowledged Safe Read Sent Updates (%)
- Acknowledged Safe Read Sent Updates (Repl Connection Avg) (%)
- Failed (Timed Out) Safe Read Sent Updates
- Failed (Timed Out) Safe Read Sent Updates (%)
- Failed (Timed Out) Safe Read Sent Updates (Repl Cnx Avg) (%)
- Failed (Wrong Status) Safe Read Sent Updates
- Failed (Wrong Status) Safe Read Sent Updates (%)
- Failed (Wrong Status) Safe Read Sent Updates (Repl Cnx Avg) (%)
- Failed (Replay Error) Safe Read Sent Updates
- Failed (Replay Error) Safe Read Sent Updates (%)
- Failed (Replay Error) Safe Read Sent Updates (Repl Cnx Avg) (%)
- Safe Read Received Updates
- Delta Safe Read Received Updates Per Second
- Acknowledged Safe Read Received Updates
- Acknowledged Safe Read Received Updates (%)
- Acknowledged Safe Read Received Updates (Repl Cnx Avg) (%)

A.18.1 Host Name

Target Version
All versions

Collection Frequency
Every 5 minutes

A.18.2 Administration Port

Target Version
All versions

Collection Frequency
Every 5 minutes

A.18.3 Base DN

Target Version
All versions

Collection Frequency
Every 5 minutes

A.18.4 Safe Data Configured

Target Version
All versions

Collection Frequency
Every 5 minutes

A.18.5 Safe Read Configured

Target Version
All versions

Collection Frequency
Every 5 minutes

A.18.6 Safe Data Updates

Target Version
All versions

Collection Frequency
Every 5 minutes

A.18.7 Delta Safe Data Updates Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Acknowledged Safe Data Updates value crossed warning threshold or critical threshold.

A.18.8 Acknowledged Safe Data Updates

Target Version
All versions

Collection Frequency
Every 5 minutes

A.18.9 Acknowledged Safe Data Updates (%)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Less than

Alert Text
Percentage of Acknowledged Safe Data Updates value crossed warning threshold or critical threshold.

A.18.10 Acknowledged Safe Data Updates (Repl Connection Avg) (%)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Less than

Alert Text
Percentage of Acknowledged Safe Data Updates (Repl Connection Avg) value crossed warning threshold or critical threshold.

A.18.11 Safe Read Sent Updates

Target Version
All versions

Collection Frequency
Every 5 minutes

A.18.12 Delta Safe Read Sent Updates Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delta Safe Read Sent Updates Per Second value crossed warning threshold or critical threshold.

A.18.13 Acknowledged Safe Read Sent Updates

Target Version
All versions

Collection Frequency
Every 5 minutes

A.18.14 Acknowledged Safe Read Sent Updates (%)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Less than

Alert Text
Percentage of Acknowledged Safe Read Sent Updates value crossed warning threshold
or critical threshold.

A.18.15 Acknowledged Safe Read Sent Updates (Repl Connection Avg) (%)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Less than

Alert Text
Percentage of Acknowledged Safe Read Sent Updates (Repl Connection Avg) value
crossed warning threshold or critical threshold.

A.18.16 Failed (Timed Out) Safe Read Sent Updates

Target Version
All versions

Collection Frequency
Every 5 minutes

A.18.17 Failed (Timed Out) Safe Read Sent Updates (%)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Less than

Alert Text
Percentage of Failed (Timed Out) Safe Read Sent Updates value crossed warning threshold or critical threshold.

A.18.18 Failed (Timed Out) Safe Read Sent Updates (Repl Cnx Avg) (%)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Less than

Alert Text
Percentage of Failed (Timed Out) Safe Read Sent Updates (Repl Connection Avg) value crossed warning threshold or critical threshold.

A.18.19 Failed (Wrong Status) Safe Read Sent Updates

Target Version
All versions

Collection Frequency
Every 5 minutes

A.18.20 Failed (Wrong Status) Safe Read Sent Updates (%)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Less than

Alert Text
Percentage of Failed (Wrong Status) Safe Read Sent Updates value crossed warning threshold or critical threshold.

A.18.21 Failed (Wrong Status) Safe Read Sent Updates (Repl Cnx Avg) (%)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Less than

Alert Text
Percentage of Failed (Wrong Status) Safe Read Sent Updates (Repl Connection Avg) value crossed warning threshold or critical threshold.

A.18.22 Failed (Replay Error) Safe Read Sent Updates

Target Version
All versions

Collection Frequency
Every 5 minutes

A.18.23 Failed (Replay Error) Safe Read Sent Updates (%)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Percentage of Failed (Replay Error) Safe Read Sent Updates value crossed warning threshold or critical threshold.

A.18.24 Failed (Replay Error) Safe Read Sent Updates (Repl Cnx Avg) (%)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Percentage of Failed (Replay Error) Safe Read Sent Updates (Repl Connection Avg) value crossed warning threshold or critical threshold.

A.18.25 Safe Read Received Updates

Target Version
All versions

Collection Frequency
Every 5 minutes

A.18.26 Delta Safe Read Received Updates Per Second

Target Version
All versions

Collection Frequency
Every 5 minutes

A.18.27 Acknowledged Safe Read Received Updates

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Less than

Alert Text
Acknowledged Safe Read Received Updates value crossed warning threshold or critical threshold.

A.18.28 Acknowledged Safe Read Received Updates (%)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Less than

Alert Text
Percentage of Acknowledged Safe Read Received Updates value crossed warning threshold or critical threshold.

A.18.29 Acknowledged Safe Read Received Updates (Repl Cnx Avg) (%)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Less than

Alert Text
Percentage of Acknowledged Safe Read Received Updates (Repl Connection Avg) value crossed warning threshold or critical threshold.

A.19 Administration Connector General Information Metrics

- Administration Connector Port
- Operations Initiated Since Startup
- Operations Initiated Per Second Since Startup
- Operations Initiated Per Second
- Operations Completed Since Startup
- Operations Completed Per Second Since Startup
- Operations Completed Per Second
- Operations Unsuccessful Since Startup
- Operations Unsuccessful Per Second Since Startup
- Operations Unsuccessful Per Second
- Elapsed Time for all Operations Since Startup
- Average Elapsed Time Per Operation Since Startup
- Average Elapsed Time Per Operation

- Current Connections
- Total Connections
- Total Connections Per Second
- Delta Total Connections Per Second
- Total Returned Search Result Entries Since Startup
- Returned Search Result Entries Per Second Since Startup
- Returned Search Result Entries Per Second
- Total MB Read
- KB Read Per Second Since Startup
- KB Read Per Second
- Total MB Written
- KB Written Per Second Since Startup
- KB Written Per Second

A.19.1 Administration Connector Port

Target Version
All versions

Collection Frequency
Every 5 minutes

A.19.2 Operations Initiated Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.19.3 Operations Initiated Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Operations Initiated Per Second Since Startup value crossed warning threshold or critical threshold.

A.19.4 Operations Initiated Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Operations Initiated Per Second value crossed warning threshold or critical threshold.

A.19.5 Operations Completed Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.19.6 Operations Completed Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Operations Completed Per Second Since Startup value crossed warning threshold or critical threshold.

A.19.7 Operations Completed Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Operations Completed Per Second value crossed warning threshold or critical threshold.

A.19.8 Operations Unsuccessful Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.19.9 Operations Unsuccessful Per Second Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.19.10 Operations Unsuccessful Per Second

Target Version
All versions

Collection Frequency
Every 5 minutes

A.19.11 Elapsed Time for all Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.19.12 Average Elapsed Time Per Operation Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation Since Startup value crossed warning threshold or critical threshold.

A.19.13 Average Elapsed Time Per Operation

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation value crossed warning threshold or critical threshold.

A.19.14 Current Connections

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Current Connections value crossed warning threshold or critical threshold.

A.19.15 Total Connections

Target Version
All versions

Collection Frequency
Every 5 minutes

A.19.16 Total Connections Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Total Connections Per Second value crossed warning threshold or critical threshold.

A.19.17 Delta Total Connections Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delta Total Connections Per Second value crossed warning threshold or critical threshold.

A.19.18 Total Returned Search Result Entries Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.19.19 Returned Search Result Entries Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Returned Search Result Entries Per Second Since Startup value crossed warning threshold or critical threshold.

A.19.20 Returned Search Result Entries Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Returned Search Result Entries Per Second value crossed warning threshold or critical threshold.

A.19.21 Total MB Read

Target Version
All versions

Collection Frequency
Every 5 minutes

A.19.22 KB Read Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
KB Read Per Second Since Startup value crossed warning threshold or critical threshold.

A.19.23 KB Read Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
KB Read Per Second value crossed warning threshold or critical threshold.

A.19.24 Total MB Written

Target Version
All versions

Collection Frequency
Every 5 minutes

A.19.25 KB Written Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
KB Written Per Second Since Startup value crossed warning threshold or critical threshold.

A.19.26 KB Written Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
KB Written Per Second value crossed warning threshold or critical threshold.

A.20 Administration Connector Read Operations Metrics

- Administration Connector Port
- Read Operations Since Startup
- Read Operations Per Second Since Startup
- Read Operations Per Second
- Total Elapsed Time for all Read Operations Since Startup (ms)
- Average Elapsed Time Per Operation Since Startup (ms)
- Average Elapsed Time Per Operation (ms)
- Bind Operations Since Startup
- Operations Unsuccessful Per Second Since Startup
- Bind Operations Per Second
- Search Operations Since Startup
- Search Operations Per Second Since Startup
- Search Operations Per Second
- Unbind Operations Since Startup
- Unbind Operations Per Second Since Startup
- Unbind Operations Per Second
- Abandon Operations Since Startup
- Abandon Operations Per Second Since Startup
- Abandon Operations Per Second
- Compare Operations Since Startup
- Compare Operations Per Second Since Startup
- Compare Operations Per Second
- Elapsed Time for Bind Operations Since Startup
- Average Elapsed Time Per Bind Since Startup
- Average Elapsed Time Per Bind
- Elapsed Time for Search Operations Since Startup
- Average Elapsed Time Per Search Since Startup
- Average Elapsed Time Per Search
- Elapsed Time for Unbind Operations Since Startup
- Average Elapsed Time Per Unbind Since Startup
- Average Elapsed Time Per Unbind
- Elapsed Time for Abandon Operations Since Startup
- Average Elapsed Time Per Abandon Since Startup
- Average Elapsed Time Per Abandon
- Elapsed Time for Compare Operations Since Startup
- Average Elapsed Time Per Compare Since Startup
- Average Elapsed Time Per Compare

A.20.1 Administration Connector Port

Target Version
All versions

Collection Frequency
Every 5 minutes

A.20.2 Read Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.20.3 Read Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Read Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.20.4 Read Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Alert Text
Read Operations Per Second value crossed warning threshold or critical threshold.

A.20.5 Total Elapsed Time for all Read Operations Since Startup (ms)

Target Version
All versions

Collection Frequency
Every 5 minutes

A.20.6 Average Elapsed Time Per Operation Since Startup (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation Since Startup value crossed warning threshold or critical threshold.

A.20.7 Average Elapsed Time Per Operation (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation value crossed warning threshold or critical threshold.

A.20.8 Bind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.20.9 Bind Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Bind Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.20.10 Bind Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Bind Operations Per Second value crossed warning threshold or critical threshold.

A.20.11 Search Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.20.12 Search Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Search Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.20.13 Search Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Search Operations Per Second value crossed warning threshold or critical threshold.

A.20.14 Unbind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.20.15 Unbind Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Unbind Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.20.16 Unbind Operations Per Second

Target Version
All versions

Collection Frequency
Every 5 minutes

A.20.17 Abandon Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.20.18 Abandon Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Abandon Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.20.19 Abandon Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Abandon Operations Per Second value crossed warning threshold or critical threshold.

A.20.20 Compare Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.20.21 Compare Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Compare Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.20.22 Compare Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Compare Operations Per Second value crossed warning threshold or critical threshold.

A.20.23 Elapsed Time for Bind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.20.24 Average Elapsed Time Per Bind Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Bind Since Startup value crossed warning threshold or critical threshold.

A.20.25 Average Elapsed Time Per Bind

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Bind value crossed warning threshold or critical threshold.

A.20.26 Elapsed Time for Search Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.20.27 Average Elapsed Time Per Search Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Search Since Startup value crossed warning threshold or critical threshold.

A.20.28 Average Elapsed Time Per Search

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Search value crossed warning threshold or critical threshold.

A.20.29 Elapsed Time for Unbind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.20.30 Average Elapsed Time Per Unbind Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Unbind Since Startup value crossed warning threshold or critical threshold.

A.20.31 Average Elapsed Time Per Unbind

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Unbind value crossed warning threshold or critical threshold.

A.20.32 Elapsed Time for Abandon Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.20.33 Average Elapsed Time Per Abandon Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Abandon Since Startup value crossed warning threshold or critical threshold.

A.20.34 Average Elapsed Time Per Abandon

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Abandon value crossed warning threshold or critical threshold.

A.20.35 Elapsed Time for Compare Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.20.36 Average Elapsed Time Per Compare Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Compare Since Startup value crossed warning threshold or critical threshold.

A.20.37 Average Elapsed Time Per Compare

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Compare value crossed warning threshold or critical
threshold.

A.21 Administration Connector Write Operations Metrics

- Administration Connector Port
- Write Operations Since Startup
- Write Operations Per Second Since Startup
- Write Operations Per Second
- Total Elapsed Time for all Write Operations Since Startup (ms)
- Average Elapsed Time Per Operation Since Startup (ms)
- Average Elapsed Time Per Operation (ms)
- Modify Operations Since Startup
- Modify Operations Per Second Since Startup
- Modify Operations Per Second
- Add Operations Since Startup
- Add Operations Per Second Since Startup
- Add Operations Per Second
- Mod DN Operations Since Startup
- Mod DN Operations Per Second Since Startup
- Mod DN Operations Per Second
- Delete Operations Since Startup
- Delete Operations Per Second Since Startup
- Delete Operations Per Second
- Elapsed Time for Modify Operations Since Startup
- Average Elapsed Time Per Modify Since Startup
- Average Elapsed Time Per Modify
- Elapsed Time for Add Operations Since Startup
- Average Elapsed Time Per Add Since Startup
- Average Elapsed Time Per Add
- Elapsed Time for Mod DN Operations Since Startup
- Average Elapsed Time Per Mod DN Since Startup
- Average Elapsed Time Per Mod DN
- Elapsed Time for Delete Operations Since Startup
- Average Elapsed Time Per Delete Since Startup
- Average Elapsed Time Per Delete

A.21.1 Administration Connector Port

Target Version
All versions

Collection Frequency
Every 5 minutes

A.21.2 Write Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.21.3 Write Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Write Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.21.4 Write Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Write Operations Per Second value crossed warning threshold or critical threshold.

A.21.5 Total Elapsed Time for all Write Operations Since Startup (ms)

Target Version
All versions

Collection Frequency
Every 5 minutes

A.21.6 Average Elapsed Time Per Operation Since Startup (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation Since Startup value crossed warning threshold or critical threshold.

A.21.7 Average Elapsed Time Per Operation (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation value crossed warning threshold or critical threshold.

A.21.8 Modify Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.21.9 Modify Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Modify Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.21.10 Modify Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Modify Operations Per Second value crossed warning threshold or critical threshold.

A.21.11 Add Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.21.12 Add Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Add Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.21.13 Add Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Add Operations Per Second value crossed warning threshold or critical threshold.

A.21.14 Mod DN Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.21.15 Mod DN Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Mod DN Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.21.16 Mod DN Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Mod DN Operations Per Second value crossed warning threshold or critical threshold.

A.21.17 Delete Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.21.18 Delete Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delete Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.21.19 Delete Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delete Operations Per Second value crossed warning threshold or critical threshold.

A.21.20 Elapsed Time for Modify Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.21.21 Average Elapsed Time Per Modify Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text

Average Elapsed Time Per Modify Since Startup value crossed warning threshold or critical threshold.

A.21.22 Average Elapsed Time Per Modify

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency

After every sample

Operator

Greater than

Alert Text

Average Elapsed Time Per Modify value crossed warning threshold or critical threshold.

A.21.23 Elapsed Time for Add Operations Since Startup

Target Version

All versions

Collection Frequency

Every 5 minutes

A.21.24 Average Elapsed Time Per Add Since Startup

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency

After every sample

Operator

Greater than

Alert Text

Average Elapsed Time Per Add Since Startup value crossed warning threshold or critical threshold.

A.21.25 Average Elapsed Time Per Add

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Add value crossed warning threshold or critical threshold.

A.21.26 Elapsed Time for Mod DN Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.21.27 Average Elapsed Time Per Mod DN Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Mod DN Since Startup value crossed warning threshold or critical threshold.

A.21.28 Average Elapsed Time Per Mod DN

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Mod DN value crossed warning threshold or critical threshold.

A.21.29 Elapsed Time for Delete Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.21.30 Average Elapsed Time Per Delete Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Delete Since Startup value crossed warning threshold or critical threshold.

A.21.31 Average Elapsed Time Per Delete

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Delete value crossed warning threshold or critical threshold.

A.22 Administration Connector Extended Operations Metrics

- Administration Connector Port
- Extended Operations Since Startup
- Extended Operations Per Second Since Startup
- Extended Operations Per Second
- Elapsed Time for Extended Operations Since Startup
- Average Elapsed Time Per Extended Since Startup

- [Average Elapsed Time Per Extended](#)

A.22.1 Administration Connector Port

Target Version
All versions

Collection Frequency
Every 5 minutes

A.22.2 Extended Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.22.3 Extended Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Extended Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.22.4 Extended Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Extended Operations Per Second value crossed warning threshold or critical threshold.

A.22.5 Elapsed Time for Extended Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.22.6 Average Elapsed Time Per Extended Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Extended Since Startup value crossed warning threshold or critical threshold.

A.22.7 Average Elapsed Time Per Extended

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Extended value crossed warning threshold or critical threshold.

A.23 Connection Handlers Configuration Metrics

- Name
- Type
- Port
- Enabled
- Is SSL

A.23.1 Name

Target Version
All versions

Collection Frequency
Every 5 minutes

A.23.2 Type

Target Version
All versions

Collection Frequency
Every 5 minutes

A.23.3 Port

Target Version
All versions

Collection Frequency
Every 5 minutes

A.23.4 Enabled

Target Version
All versions

Collection Frequency
Every 5 minutes

A.23.5 Is SSL

Target Version
All versions

Collection Frequency
Every 5 minutes

A.24 Connection Handlers General Information Metrics

- Connection Handler Name
- Operations Initiated Since Startup
- Operations Initiated Per Second Since Startup
- Operations Initiated Per Second
- Operations Completed Since Startup
- Operations Completed Per Second Since Startup
- Operations Completed Per Second
- Operations Unsuccessful Since Startup
- Operations Unsuccessful Per Second Since Startup
- Operations Unsuccessful Per Second
- Elapsed Time for all Operations Since Startup
- Average Elapsed Time Per Operation Since Startup
- Average Elapsed Time Per Operation

- Current Connections
- Total Connections
- Total Connections Per Second
- Delta Total Connections Per Second
- Total Returned Search Result Entries Since Startup
- Returned Search Result Entries Per Second Since Startup
- Returned Search Result Entries Per Second
- Total MB Read
- KB Read Per Second Since Startup
- KB Read Per Second
- Total MB Written
- KB Written Per Second Since Startup
- KB Written Per Second

A.24.1 Connection Handler Name

Target Version
All versions

Collection Frequency
Every 5 minutes

A.24.2 Operations Initiated Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.24.3 Operations Initiated Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Operations Initiated Per Second Since Startup value crossed warning threshold or critical threshold.

A.24.4 Operations Initiated Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Operations Initiated Per Second value crossed warning threshold or critical threshold.

A.24.5 Operations Completed Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.24.6 Operations Completed Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Operations Completed Per Second Since Startup value crossed warning threshold or critical threshold.

A.24.7 Operations Completed Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Operations Completed Per Second value crossed warning threshold or critical threshold.

A.24.8 Operations Unsuccessful Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.24.9 Operations Unsuccessful Per Second Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.24.10 Operations Unsuccessful Per Second

Target Version
All versions

Collection Frequency
Every 5 minutes

A.24.11 Elapsed Time for all Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.24.12 Average Elapsed Time Per Operation Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation Since Startup value crossed warning threshold or critical threshold.

A.24.13 Average Elapsed Time Per Operation

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation value crossed warning threshold or critical threshold.

A.24.14 Current Connections

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Current Connections value crossed warning threshold or critical threshold.

A.24.15 Total Connections

Target Version
All versions

Collection Frequency
Every 5 minutes

A.24.16 Total Connections Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Total Connections Per Second value crossed warning threshold or critical threshold.

A.24.17 Delta Total Connections Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delta Total Connections Per Second value crossed warning threshold or critical threshold.

A.24.18 Total Returned Search Result Entries Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.24.19 Returned Search Result Entries Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Returned Search Result Entries Per Second Since Startup value crossed warning threshold or critical threshold.

A.24.20 Returned Search Result Entries Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Returned Search Result Entries Per Second value crossed warning threshold or critical threshold.

A.24.21 Total MB Read

Target Version
All versions

Collection Frequency
Every 5 minutes

A.24.22 KB Read Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
KB Read Per Second Since Startup value crossed warning threshold or critical threshold.

A.24.23 KB Read Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
KB Read Per Second value crossed warning threshold or critical threshold.

A.24.24 Total MB Written

Target Version
All versions

Collection Frequency
Every 5 minutes

A.24.25 KB Written Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Alert Text
KB Written Per Second Since Startup value crossed warning threshold or critical threshold.

A.24.26 KB Written Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
KB Written Per Second value crossed warning threshold or critical threshold.

A.25 Connection Handlers Read Operations Metrics

- Connection Handler Name
- Read Operations Since Startup
- Read Operations Per Second Since Startup
- Read Operations Per Second
- Total Elapsed Time for all Read Operations Since Startup (ms)
- Average Elapsed Time Per Operation Since Startup (ms)
- Average Elapsed Time Per Operation (ms)
- Bind Operations Since Startup
- Bind Operations Per Second Since Startup
- Bind Operations Per Second
- Search Operations Since Startup
- Search Operations Per Second Since Startup
- Search Operations Per Second
- Unbind Operations Since Startup
- Unbind Operations Per Second Since Startup
- Unbind Operations Per Second
- Abandon Operations Since Startup
- Abandon Operations Per Second Since Startup
- Abandon Operations Per Second

- Compare Operations Since Startup
- Compare Operations Per Second Since Startup
- Compare Operations Per Second
- Elapsed Time for Bind Operations Since Startup
- Average Elapsed Time Per Bind Since Startup
- Average Elapsed Time Per Bind
- Elapsed Time for Search Operations Since Startup
- Average Elapsed Time Per Search Since Startup
- Average Elapsed Time Per Search
- Elapsed Time for Unbind Operations Since Startup
- Average Elapsed Time Per Unbind Since Startup
- Average Elapsed Time Per Unbind
- Elapsed Time for Abandon Operations Since Startup
- Average Elapsed Time Per Abandon Since Startup
- Average Elapsed Time Per Abandon
- Elapsed Time for Compare Operations Since Startup
- Average Elapsed Time Per Compare Since Startup
- Average Elapsed Time Per Compare Since Startup

A.25.1 Connection Handler Name

Target Version
All versions

Collection Frequency
Every 5 minutes

A.25.2 Read Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.25.3 Read Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Read Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.25.4 Read Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Read Operations Per Second value crossed warning threshold or critical threshold.

A.25.5 Total Elapsed Time for all Read Operations Since Startup (ms)

Target Version
All versions

Collection Frequency
Every 5 minutes

A.25.6 Average Elapsed Time Per Operation Since Startup (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation Since Startup value crossed warning threshold or critical threshold.

A.25.7 Average Elapsed Time Per Operation (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation value crossed warning threshold or critical threshold.

A.25.8 Bind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.25.9 Bind Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Bind Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.25.10 Bind Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Bind Operations Per Second value crossed warning threshold or critical threshold.

A.25.11 Search Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.25.12 Search Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Search Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.25.13 Search Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Search Operations Per Second value crossed warning threshold or critical threshold.

A.25.14 Unbind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.25.15 Unbind Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Unbind Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.25.16 Unbind Operations Per Second

Target Version
All versions

Collection Frequency
Every 5 minutes

A.25.17 Abandon Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.25.18 Abandon Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Abandon Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.25.19 Abandon Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Abandon Operations Per Second value crossed warning threshold or critical threshold.

A.25.20 Compare Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.25.21 Compare Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Compare Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.25.22 Compare Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Compare Operations Per Second value crossed warning threshold or critical threshold.

A.25.23 Elapsed Time for Bind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.25.24 Average Elapsed Time Per Bind Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Bind Since Startup value crossed warning threshold or critical threshold.

A.25.25 Average Elapsed Time Per Bind

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Bind value crossed warning threshold or critical threshold.

A.25.26 Elapsed Time for Search Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.25.27 Average Elapsed Time Per Search Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Search Since Startup value crossed warning threshold or critical threshold.

A.25.28 Average Elapsed Time Per Search

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Search value crossed warning threshold or critical threshold.

A.25.29 Elapsed Time for Unbind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.25.30 Average Elapsed Time Per Unbind Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Unbind Since Startup value crossed warning threshold or critical threshold.

A.25.31 Average Elapsed Time Per Unbind

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Unbind value crossed warning threshold or critical threshold.

A.25.32 Elapsed Time for Abandon Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.25.33 Average Elapsed Time Per Abandon Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Abandon Since Startup value crossed warning threshold or critical threshold.

A.25.34 Average Elapsed Time Per Abandon

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Abandon value crossed warning threshold or critical threshold.

A.25.35 Elapsed Time for Compare Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.25.36 Average Elapsed Time Per Compare Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Compare Since Startup value crossed warning threshold or critical threshold.

A.25.37 Average Elapsed Time Per Compare

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Compare value crossed warning threshold or critical threshold.

A.26 Connection Handlers Write Operations Metrics

- Connection Handler Name
- Write Operations Since Startup
- Write Operations Per Second Since Startup
- Write Operations Per Second
- Total Elapsed Time for all Write Operations Since Startup (ms)
- Average Elapsed Time Per Operation Since Startup (ms)
- Average Elapsed Time Per Operation (ms)
- Modify Operations Since Startup
- Modify Operations Per Second Since Startup
- Modify Operations Per Second
- Add Operations Since Startup
- Add Operations Per Second Since Startup
- Add Operations Per Second
- Mod DN Operations Since Startup
- Mod DN Operations Per Second Since Startup

- Mod DN Operations Per Second
- Delete Operations Since Startup
- Delete Operations Per Second Since Startup
- Delete Operations Per Second
- Elapsed Time for Modify Operations Since Startup
- Average Elapsed Time Per Modify Since Startup
- Average Elapsed Time Per Modify
- Elapsed Time for Add Operations Since Startup
- Average Elapsed Time Per Add Since Startup
- Average Elapsed Time Per Add
- Elapsed Time for Mod DN Operations Since Startup
- Average Elapsed Time Per Mod DN Since Startup
- Average Elapsed Time Per Mod DN
- Elapsed Time for Delete Operations Since Startup
- Average Elapsed Time Per Delete Since Startup
- Average Elapsed Time Per Delete

A.26.1 Connection Handler Name

Target Version
All versions

Collection Frequency
Every 5 minutes

A.26.2 Write Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.26.3 Write Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Write Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.26.4 Write Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Write Operations Per Second value crossed warning threshold or critical threshold.

A.26.5 Total Elapsed Time for all Write Operations Since Startup (ms)

Target Version
All versions

Collection Frequency
Every 5 minutes

A.26.6 Average Elapsed Time Per Operation Since Startup (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation Since Startup value crossed warning threshold or critical threshold.

A.26.7 Average Elapsed Time Per Operation (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation value crossed warning threshold or critical threshold.

A.26.8 Modify Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.26.9 Modify Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Modify Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.26.10 Modify Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Modify Operations Per Second value crossed warning threshold or critical threshold.

A.26.11 Add Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.26.12 Add Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Add Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.26.13 Add Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Add Operations Per Second value crossed warning threshold or critical threshold.

A.26.14 Mod DN Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.26.15 Mod DN Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Mod DN Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.26.16 Mod DN Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Mod DN Operations Per Second value crossed warning threshold or critical threshold.

A.26.17 Delete Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.26.18 Delete Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delete Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.26.19 Delete Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delete Operations Per Second value crossed warning threshold or critical threshold.

A.26.20 Elapsed Time for Modify Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.26.21 Average Elapsed Time Per Modify Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Modify Since Startup value crossed warning threshold or critical threshold.

A.26.22 Average Elapsed Time Per Modify

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Modify value crossed warning threshold or critical threshold.

A.26.23 Elapsed Time for Add Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.26.24 Average Elapsed Time Per Add Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Add Since Startup value crossed warning threshold or critical threshold.

A.26.25 Average Elapsed Time Per Add

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Add value crossed warning threshold or critical threshold.

A.26.26 Elapsed Time for Mod DN Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.26.27 Average Elapsed Time Per Mod DN Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Mod DN Since Startup value crossed warning threshold or critical threshold.

A.26.28 Average Elapsed Time Per Mod DN

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Mod DN value crossed warning threshold or critical threshold.

A.26.29 Elapsed Time for Delete Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.26.30 Average Elapsed Time Per Delete Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Delete Since Startup value crossed warning threshold or critical threshold.

A.26.31 Average Elapsed Time Per Delete

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Delete value crossed warning threshold or critical threshold.

A.27 Connection Handlers Extended Operations Metrics

- Connection Handler Name
- Extended Operations Since Startup
- Extended Operations Per Second Since Startup
- Extended Operations Per Second
- Elapsed Time for Extended Operations Since Startup
- Average Elapsed Time Per Extended Since Startup

- [Average Elapsed Time Per Extended](#)

A.27.1 Connection Handler Name

Target Version
All versions

Collection Frequency
Every 5 minutes

A.27.2 Extended Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.27.3 Extended Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Extended Operations Per Second Since Startup value crossed warning threshold or critical threshold.

A.27.4 Extended Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Extended Operations Per Second value crossed warning threshold or critical threshold.

A.27.5 Elapsed Time for Extended Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

A.27.6 Average Elapsed Time Per Extended Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Extended Since Startup value crossed warning threshold or critical threshold.

A.27.7 Average Elapsed Time Per Extended

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Extended value crossed warning threshold or critical threshold.

A.28 System Resource Information - CPU Usage Metric

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
CPU Usage value crossed warning threshold or critical threshold.

A.29 Server Resource Information Metrics

- [Max Allowed Heap (MB)](#)
- [Used Memory in Heap (MB)](#)
- [Free Memory in Heap (MB)](#)
- [Heap Size (MB)](#)
- [Non-Heap Size (MB)](#)
- [Memory CodeCache Used (MB)](#)
- [Memory PermGen Used (MB)](#)
- [Memory Survivor Used (MB)](#)

- [Memory Eden Used (MB)](#)
- [Memory OldGen Used (MB)](#)
- [Number of Scavenge Collector Processes](#)
- [Total Duration of the Scavenge Collector Processing](#)
- [Average Duration of the Scavenge Collector Processing](#)
- [Number of `markSweep` Collector Processes](#)
- [Total Duration of the `markSweep` Collector Processing](#)
- [Average Duration of the markSweep Collector Processing](#)

A.29.1 Max Allowed Heap (MB)

Target Version
All versions

Collection Frequency
Every 5 minutes

A.29.2 Used Memory in Heap (MB)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Used Memory in Heap value crossed warning threshold or critical threshold.

A.29.3 Free Memory in Heap (MB)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Less than

Alert Text
Free Memory in Heap value crossed warning threshold or critical threshold.

A.29.4 Heap Size (MB)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Heap Size value crossed warning threshold or critical threshold.

A.29.5 Non-Heap Size (MB)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Non-Heap Size value crossed warning threshold or critical threshold.

A.29.6 Memory CodeCache Used (MB)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Memory CodeCache Used value crossed warning threshold or critical threshold.

A.29.7 Memory PermGen Used (MB)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Memory PermGen Used value crossed warning threshold or critical threshold.

A.29.8 Memory Survivor Used (MB)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Memory Survivor Used value crossed warning threshold or critical threshold.

A.29.9 Memory Eden Used (MB)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Memory Eden Used value crossed warning threshold or critical threshold.

A.29.10 Memory OldGen Used (MB)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Memory OldGen Used value crossed warning threshold or critical threshold.

A.29.11 Number of Scavenge Collector Processes

Target Version
All versions

Collection Frequency
Every 5 minutes

A.29.12 Total Duration of the Scavenge Collector Processing

Target Version
All versions

Collection Frequency
Every 5 minutes

A.29.13 Average Duration of the Scavenge Collector Processing

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Duration of the scavenge Collector processing value crossed warning threshold or critical threshold.

A.29.14 Number of `markSweep` Collector Processes

Target Version
All versions

Collection Frequency
Every 5 minutes

A.29.15 Total Duration of the `markSweep` Collector Processing

Target Version
All versions

Collection Frequency
Every 5 minutes

A.29.16 Average Duration of the markSweep Collector Processing

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Duration of the markSweep Collector processing value crossed warning threshold or critical threshold.

B

OUD Proxy Server Instance Metrics

This Appendix contains the following sections:

- Response Metrics

- General Information Metrics

- Server Role Metrics

- Naming Contexts Metrics

- WorkQueue information Metrics

- Connections Information Metrics

- Operations Read Metrics

- Operations Write Metrics

- Operations Extended Metrics

- Administration Connector General Information Metrics

- Administration Connector Read Operations Metrics

- Administration Connector Write Operations Metrics

- Administration Connector Extended Operations Metrics

- Connection Handlers Configuration Metrics

- Connection Handlers General Information Metrics

- Connection Handlers Read Operations Metrics

- Connection Handlers Write Operations Metrics

- Connection Handlers Extended Operations Metrics

- CPU Utilization (%)

- Server Resource Usage Metrics

- General Remote LDAP Servers Information Metrics

- Remote LDAP Servers Connection Pool Metrics

- Remote LDAP Servers Read Operations Metrics

- Remote LDAP Servers Write Operations Metrics

- Remote LDAP Servers Extended Operations Metrics

- Remote LDAP Servers Read Errors Metrics

- Remote LDAP Servers Write Errors Metrics

- Remote LDAP Servers Extended Errors Metrics

- Capacity Distribution Workflow Element Information Metrics

- Capacity Distribution Partition Information Metrics

- Global Index Shared Cache Information Metrics

- Global Index Operations Metrics

- Global Index Errors Metrics

B.1 Response Metrics

- Status

- Details

B.1.1 Status

Target Version
All versions

Evaluation and Collection Frequency
Every 1 minute

Upload Frequency
After every sample

Operator
Not equal

Default Critical Threshold
0

Alert Text
The OUD Proxy Server is down.

B.1.2 Details

Target Version
All versions

Collection Frequency
Every 1 minute

B.2 General Information Metrics

- Full Version

- Vendor Name

- Current Time

- Start Time

- Instance Path

- Install Path

- Java Version

- Java Home
- Java Architecture

B.2.1 Full Version

Target Version
All versions

Collection Frequency
Every 24 hours

B.2.2 Vendor Name

Target Version
All versions

Collection Frequency
Every 24 hours

B.2.3 Current Time

Target Version
All versions

Collection Frequency
Every 24 hours

B.2.4 Start Time

Target Version
All versions

Collection Frequency
Every 24 hours

B.2.5 Instance Path

Target Version
All versions

Collection Frequency
Every 24 hours

B.2.6 Install Path

Target Version
All versions

Collection Frequency
Every 24 hours

B.2.7 Java Version

Target Version
All versions

Collection Frequency
Every 24 hours

B.2.8 Java Home

Target Version
All versions

Collection Frequency
Every 24 hours

B.2.9 Java Architecture

Target Version
All versions

Collection Frequency
Every 24 hours

B.3 Server Role Metrics

- Directory Server

- Proxy

- Distributor

- Load Balancer

- Replication Gateway

- Role

B.3.1 Directory Server

Target Version
All versions

Evaluation and Collection Frequency
Every 24 hours

Upload Frequency
After every sample

Operator
Match

Default Critical Threshold
True

Alert Text

The target is not a Proxy. Please Select the oracle_oud_directory plugin to monitor your instance..

B.3.2 Proxy

Target Version

All versions

Collection Frequency

Every 24 hours

B.3.3 Distributor

Target Version

All versions

Collection Frequency

Every 24 hours

B.3.4 Load Balancer

Target Version

All versions

Collection Frequency

Every 24 hours

B.3.5 Replication Gateway

Target Version

All versions

Evaluation and Collection Frequency

Every 24 hours

Upload Frequency

After every sample

Operator

Match

Default Critical Threshold

True

Alert Text

The target is not a Proxy. Please Select the oracle_oud_gateway plugin to monitor your instance..

B.3.6 Role

Target Version

All versions

Collection Frequency
Every 24 hours

B.4 Naming Contexts Metrics

- Base DN
- Role
- Network Groups
- Algorithm

B.4.1 Base DN

Target Version
All versions

Collection Frequency
Every 24 hours

B.4.2 Role

Target Version
All versions

Collection Frequency
Every 24 hours

B.4.3 Network Groups

Target Version
All versions

Collection Frequency
Every 5 minutes

B.4.4 Algorithm

Target Version
All versions

Collection Frequency
Every 5 minutes

B.5 WorkQueue information Metrics

- Max Number of Requests in the Queue
- Current Number of Requests in the Queue
- Number of Rejected Requests Due to Full Queue
- Maximum Requests Allowed in the Queue

B.5.1 Max Number of Requests in the Queue

Target Version
All versions

Collection Frequency
Every 5 minutes

B.5.2 Current Number of Requests in the Queue

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Current Number of requests in the Queue value crossed warning threshold or critical threshold.

B.5.3 Number of Rejected Requests Due to Full Queue

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Number of Rejected Requests due to Full Queue value crossed warning threshold or critical threshold.

B.5.4 Maximum Requests Allowed in the Queue

Target Version
All versions

Collection Frequency
Every 5 minutes

B.6 Connections Information Metrics

- Connections Peak

- [Current Connections](#)

- [Total Connections](#)

- [Connections Per Second Since Startup](#)

- [Connections Per Second](#)

B.6.1 Connections Peak

Target Version
All versions

Collection Frequency
Every 5 minutes

B.6.2 Current Connections

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Current Connections value crossed warning threshold or critical threshold.

B.6.3 Total Connections

Target Version
All versions

Collection Frequency
Every 5 minutes

B.6.4 Connections Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Connections Per Second Since Startup value crossed warning threshold or critical threshold.

B.6.5 Connections Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Connections Per Second value crossed warning threshold or critical threshold.

B.7 Operations Read Metrics

- Read Operations Since Startup
- Read Operations Per Second Since Startup
- Read Operations Per Second
- Total Elapsed Time for all Read Operations Since Startup (ms)
- Average Elapsed Time Per Operation Since Startup (ms)
- Average Elapsed Time Per Operation (ms)
- Bind Operations Since Startup
- Bind Operations Per Second Since Startup
- Bind Operations Per Second
- Search Operations Since Startup
- Search Operations Per Second Since Startup
- Search Operations Per Second
- One Level Search Operations Since Startup
- One Level Search Operations Per Second Since Startup
- One Level Search Operations Per Second
- Subtree Search Operations Since Startup
- Subtree Search Operations Per Second Since Startup
- Subtree Search Operations Per Second
- Unbind Operations Since Startup
- Unbind Operations Per Second Since Startup
- Unbind Operations Per Second
- Abandon Operations Since Startup
- Abandon Operations Per Second Since Startup
- Abandon Operations Per Second
- Compare Operations Since Startup
- Compare Operations Per Second Since Startup
- Compare Operations Per Second
- Elapsed Time for Bind Operations Since Startup
- Average Elapsed Time Per Bind Since Startup
- Average Elapsed Time Per Bind
- Elapsed Time for Search Operations Since Startup
- Average Elapsed Time Per Search Since Startup
- Average Elapsed Time Per Search
- Elapsed Time for Unbind Operations Since Startup
- Average Elapsed Time Per Unbind Since Startup
- Average Elapsed Time Per Unbind
- Elapsed Time for Abandon Operations Since Startup
- Average Elapsed Time Per Abandon Since Startup
- Average Elapsed Time Per Abandon
- Elapsed Time for Compare Operations Since Startup
- Average Elapsed Time Per Compare Since Startup

B.7.1 Read Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.7.2 Read Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Read Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.7.3 Read Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Read Operations Per Second value crossed warning threshold or critical threshold.

B.7.4 Total Elapsed Time for all Read Operations Since Startup (ms)

Target Version
All versions

Collection Frequency
Every 5 minutes

B.7.5 Average Elapsed Time Per Operation Since Startup (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation Since Startup value crossed warning threshold or critical threshold.

B.7.6 Average Elapsed Time Per Operation (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation value crossed warning threshold or critical threshold.

B.7.7 Bind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.7.8 Bind Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Bind Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.7.9 Bind Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Bind Operations Per Second value crossed warning threshold or critical threshold.

B.7.10 Search Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.7.11 Search Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
.

B.7.12 Search Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Search Operations Per Second value crossed warning threshold or critical threshold.

B.7.13 One Level Search Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.7.14 One Level Search Operations Per Second Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.7.15 One Level Search Operations Per Second

Target Version
All versions

Collection Frequency
Every 5 minutes

B.7.16 Subtree Search Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.7.17 Subtree Search Operations Per Second Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.7.18 Subtree Search Operations Per Second

Target Version
All versions

Collection Frequency
Every 5 minutes

B.7.19 Unbind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.7.20 Unbind Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Unbind Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.7.21 Unbind Operations Per Second

Target Version
All versions

Collection Frequency
Every 5 minutes

B.7.22 Abandon Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.7.23 Abandon Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Abandon Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.7.24 Abandon Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Abandon Operations Per Second value crossed warning threshold or critical threshold.

B.7.25 Compare Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.7.26 Compare Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Compare Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.7.27 Compare Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Compare Operations Per Second value crossed warning threshold or critical threshold.

B.7.28 Elapsed Time for Bind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.7.29 Average Elapsed Time Per Bind Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Bind Since Startup value crossed warning threshold or critical threshold.

B.7.30 Average Elapsed Time Per Bind

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Bind value crossed warning threshold or critical threshold.

B.7.31 Elapsed Time for Search Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.7.32 Average Elapsed Time Per Search Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Search Since Startup value crossed warning threshold or critical threshold.

B.7.33 Average Elapsed Time Per Search

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Search value crossed warning threshold or critical threshold.

B.7.34 Elapsed Time for Unbind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.7.35 Average Elapsed Time Per Unbind Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Unbind Since Startup value crossed warning threshold or critical threshold.

B.7.36 Average Elapsed Time Per Unbind

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Unbind value crossed warning threshold or critical threshold.

B.7.37 Elapsed Time for Abandon Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.7.38 Average Elapsed Time Per Abandon Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Abandon Since Startup value crossed warning threshold or critical threshold.

B.7.39 Average Elapsed Time Per Abandon

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Abandon value crossed warning threshold or critical threshold.

B.7.40 Elapsed Time for Compare Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.7.41 Average Elapsed Time Per Compare Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Default Critical Threshold
True

Alert Text
Average Elapsed Time Per Compare Since Startup value crossed warning threshold or critical threshold.

B.8 Operations Write Metrics

- Write Operations Since Startup
- Write Operations Per Second Since Startup
- Write Operations Per Second
- Total Elapsed Time for all Write Operations Since Startup (ms)
- Average Elapsed Time Per Operation Since Startup (ms)
- Average Elapsed Time Per Operation (ms)
- Modify Operations Since Startup
- Modify Operations Per Second Since Startup
- Modify Operations Per Second
- Add Operations Since Startup
- Add Operations Per Second Since Startup
- Add Operations Per Second
- Mod DN Operations Since Startup
- Mod DN Operations Per Second Since Startup
- Mod DN Operations Per Second

- Delete Operations Since Startup
- Delete Operations Per Second Since Startup
- Delete Operations Per Second
- Elapsed Time for Modify Operations Since Startup
- Average Elapsed Time Per Modify Since Startup
- Average Elapsed Time Per Modify
- Elapsed Time for Add Operations Since Startup
- Average Elapsed Time Per Add Since Startup
- Average Elapsed Time Per Add
- Elapsed Time for Mod DN Operations Since Startup
- Average Elapsed Time Per Mod DN Since Startup
- Average Elapsed Time Per Mod DN
- Elapsed Time for Delete Operations Since Startup
- Average Elapsed Time Per Delete Since Startup
- Average Elapsed Time Per Delete

B.8.1 Write Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.8.2 Write Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Write Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.8.3 Write Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Write Operations Per Second value crossed warning threshold or critical threshold.

B.8.4 Total Elapsed Time for all Write Operations Since Startup (ms)

Target Version
All versions

Collection Frequency
Every 5 minutes

B.8.5 Average Elapsed Time Per Operation Since Startup (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation Since Startup value crossed warning threshold or critical threshold.

B.8.6 Average Elapsed Time Per Operation (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation value crossed warning threshold or critical threshold.

B.8.7 Modify Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.8.8 Modify Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Modify Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.8.9 Modify Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Modify Operations Per Second value crossed warning threshold or critical threshold.

B.8.10 Add Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.8.11 Add Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Add Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.8.12 Add Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Add Operations Per Second value crossed warning threshold or critical threshold.

B.8.13 Mod DN Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.8.14 Mod DN Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Mod DN Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.8.15 Mod DN Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Mod DN Operations Per Second value crossed warning threshold or critical threshold.

B.8.16 Delete Operations Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delete Since Startup startup value crossed warning threshold or critical threshold.

B.8.17 Delete Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delete Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.8.18 Delete Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delete Operations Per Second value crossed warning threshold or critical threshold.

B.8.19 Elapsed Time for Modify Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.8.20 Average Elapsed Time Per Modify Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Modify Since Startup value crossed warning threshold or critical threshold.

B.8.21 Average Elapsed Time Per Modify

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text

Average Elapsed Time Per Modify value crossed warning threshold or critical threshold.

B.8.22 Elapsed Time for Add Operations Since Startup

Target Version

All versions

Collection Frequency

Every 5 minutes

B.8.23 Average Elapsed Time Per Add Since Startup

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency

After every sample

Operator

Greater than

Alert Text

Average Elapsed Time Per Add Since Startup value crossed warning threshold or critical threshold.

B.8.24 Average Elapsed Time Per Add

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency

After every sample

Operator

Greater than

Alert Text

Average Elapsed Time Per Add value crossed warning threshold or critical threshold.

B.8.25 Elapsed Time for Mod DN Operations Since Startup

Target Version

All versions

Collection Frequency

Every 5 minutes

B.8.26 Average Elapsed Time Per Mod DN Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Mod DN Since Startup value crossed warning threshold or critical threshold.

B.8.27 Average Elapsed Time Per Mod DN

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Mod DN value crossed warning threshold or critical threshold.

B.8.28 Elapsed Time for Delete Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.8.29 Average Elapsed Time Per Delete Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Delete Since Startup value crossed warning threshold or critical threshold.

B.8.30 Average Elapsed Time Per Delete

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Delete value crossed warning threshold or critical threshold.

B.9 Operations Extended Metrics

- Extended Operations Since Startup
- Extended Operations Per Second Since Startup
- Extended Operations Per Second
- Elapsed Time for Extended Operations Since Startup
- Average Elapsed Time Per Extended Since Startup
- Average Elapsed Time Per Extended

B.9.1 Extended Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.9.2 Extended Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Extended Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.9.3 Extended Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Extended Operations Per Second value crossed warning threshold or critical threshold.

B.9.4 Elapsed Time for Extended Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.9.5 Average Elapsed Time Per Extended Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Extended Since Startup value crossed warning threshold or critical threshold.

B.9.6 Average Elapsed Time Per Extended

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Default Critical Threshold
True

Alert Text
Average Elapsed Time Per Extended value crossed warning threshold or critical threshold.

B.10 Administration Connector General Information Metrics

- Administration Connector Port
- Operations Initiated Since Startup
- Operations Initiated Per Second Since Startup
- Operations Initiated Per Second
- Operations Completed Since Startup
- Operations Completed Per Second Since Startup
- Operations Completed Per Second
- Operations Unsuccessful Since Startup
- Operations Unsuccessful Per Second Since Startup
- Operations Unsuccessful Per Second
- Elapsed Time for all Operations Since Startup
- Average Elapsed Time Per Operation Since Startup
- Average Elapsed Time Per Operation

- Current Connections
- Total Connections
- Total Connections Per Second
- Delta Total Connections Per Second
- Total Returned Search Result Entries Since Startup
- Returned Search Result Entries Per Second Since Startup
- Returned Search Result Entries Per Second
- Total MB Read
- KB Read Per Second Since Startup
- KB Read Per Second
- Total MB Written
- KB Written Per Second Since Startup
- KB Written Per Second

B.10.1 Administration Connector Port

Target Version
All versions

Collection Frequency
Every 5 minutes

B.10.2 Operations Initiated Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.10.3 Operations Initiated Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Default Critical Threshold
True

Alert Text
Operations Initiated Per Second Since Startup value crossed warning threshold or critical threshold.

B.10.4 Operations Initiated Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Operations Initiated Per Second value crossed warning threshold or critical threshold.

B.10.5 Operations Completed Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.10.6 Operations Completed Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Operations Completed Per Second Since Startup value crossed warning threshold or critical threshold.

B.10.7 Operations Completed Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Operations Completed Per Second value crossed warning threshold or critical threshold.

B.10.8 Operations Unsuccessful Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.10.9 Operations Unsuccessful Per Second Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.10.10 Operations Unsuccessful Per Second

Target Version
All versions

Collection Frequency
Every 5 minutes

B.10.11 Elapsed Time for all Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.10.12 Average Elapsed Time Per Operation Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation Since Startup value crossed warning threshold or critical threshold.

B.10.13 Average Elapsed Time Per Operation

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation value crossed warning threshold or critical threshold.

B.10.14 Current Connections

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Default Critical Threshold
True

Alert Text
Current Connections value crossed warning threshold or critical threshold.

B.10.15 Total Connections

Target Version
All versions

Collection Frequency
Every 5 minutes

B.10.16 Total Connections Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Total Connections Per Second value crossed warning threshold or critical threshold.

B.10.17 Delta Total Connections Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delta Total Connections Per Second value crossed warning threshold or critical threshold.

B.10.18 Total Returned Search Result Entries Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.10.19 Returned Search Result Entries Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Returned Search Result Entries Per Second Since Startup value crossed warning threshold or critical threshold.

B.10.20 Returned Search Result Entries Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Returned Search Result Entries Per Second value crossed warning threshold or critical threshold.

B.10.21 Total MB Read

Target Version
All versions

Collection Frequency
Every 5 minutes

B.10.22 KB Read Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
KB Read Per Second Since Startup value crossed warning threshold or critical threshold.

B.10.23 KB Read Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
KB Read Per Second value crossed warning threshold or critical threshold.

B.10.24 Total MB Written

Target Version
All versions

Collection Frequency
Every 5 minutes

B.10.25 KB Written Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
KB Written Per Second Since Startup value crossed warning threshold or critical threshold.

B.10.26 KB Written Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
KB Written Per Second value crossed warning threshold or critical threshold.

B.11 Administration Connector Read Operations Metrics

- Administration Connector Port
- Read Operations Since Startup
- Read Operations Per Second Since Startup
- Read Operations Per Second
- Total Elapsed Time for all Read Operations Since Startup (ms)
- Average Elapsed Time Per Operation Since Startup (ms)
- Average Elapsed Time Per Operation (ms)
- Bind Operations Since Startup
- Bind Operations Per Second Since Startup
- Bind Operations Per Second
- Search Operations Since Startup
- Search Operations Per Second Since Startup
- Search Operations Per Second
- Unbind Operations Since Startup
- Unbind Operations Per Second Since Startup
- Unbind Operations Per Second
- Abandon Operations Since Startup
- Abandon Operations Per Second Since Startup
- Abandon Operations Per Second

- Compare Operations Since Startup
- Compare Operations Per Second Since Startup
- Compare Operations Per Second
- Elapsed Time for Bind Operations Since Startup
- Average Elapsed Time Per Bind Since Startup
- Average Elapsed Time Per Bind
- Elapsed Time for Search Operations Since Startup
- Average Elapsed Time Per Search Since Startup
- Average Elapsed Time Per Search
- Elapsed Time for Unbind Operations Since Startup
- Average Elapsed Time Per Unbind Since Startup
- Average Elapsed Time Per Unbind
- Elapsed Time for Abandon Operations Since Startup
- Average Elapsed Time Per Abandon Since Startup
- Average Elapsed Time Per Abandon
- Elapsed Time for Compare Operations Since Startup
- Average Elapsed Time Per Compare Since Startup
-

B.11.1 Administration Connector Port

Target Version
All versions

Collection Frequency
Every 5 minutes

B.11.2 Read Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.11.3 Read Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Read Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.11.4 Read Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Read Operations Per Second value crossed warning threshold or critical threshold.

B.11.5 Total Elapsed Time for all Read Operations Since Startup (ms)

Target Version
All versions

Collection Frequency
Every 5 minutes

B.11.6 Average Elapsed Time Per Operation Since Startup (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation Since Startup value crossed warning threshold or critical threshold.

B.11.7 Average Elapsed Time Per Operation (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation value crossed warning threshold or critical threshold.

B.11.8 Bind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.11.9 Bind Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Bind Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.11.10 Bind Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Bind Operations Per Second value crossed warning threshold or critical threshold.

B.11.11 Search Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.11.12 Search Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Search Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.11.13 Search Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Search Operations Per Second value crossed warning threshold or critical threshold.

B.11.14 Unbind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.11.15 Unbind Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Unbind Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.11.16 Unbind Operations Per Second

Target Version
All versions

Collection Frequency
Every 5 minutes

B.11.17 Abandon Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.11.18 Abandon Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Abandon Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.11.19 Abandon Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Abandon Operations Per Second value crossed warning threshold or critical threshold.

B.11.20 Compare Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.11.21 Compare Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Compare Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.11.22 Compare Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Compare Operations Per Second value crossed warning threshold or critical threshold.

B.11.23 Elapsed Time for Bind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.11.24 Average Elapsed Time Per Bind Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Bind Since Startup value crossed warning threshold or critical threshold.

B.11.25 Average Elapsed Time Per Bind

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Bind value crossed warning threshold or critical threshold.

B.11.26 Elapsed Time for Search Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.11.27 Average Elapsed Time Per Search Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Search Since Startup value crossed warning threshold or critical threshold.

B.11.28 Average Elapsed Time Per Search

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Search value crossed warning threshold or critical threshold.

B.11.29 Elapsed Time for Unbind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.11.30 Average Elapsed Time Per Unbind Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Unbind Since Startup value crossed warning threshold or critical threshold.

B.11.31 Average Elapsed Time Per Unbind

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Unbind value crossed warning threshold or critical threshold.

B.11.32 Elapsed Time for Abandon Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.11.33 Average Elapsed Time Per Abandon Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Abandon Since Startup value crossed warning threshold or critical threshold.

B.11.34 Average Elapsed Time Per Abandon

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Abandon value crossed warning threshold or critical threshold.

B.11.35 Elapsed Time for Compare Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.11.36 Average Elapsed Time Per Compare Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Compare Since Startup value crossed warning threshold or critical threshold.

B.12 Administration Connector Write Operations Metrics

- Administration Connector Port
- Write Operations Since Startup
- Write Operations Per Second Since Startup
- Write Operations Per Second
- Total Elapsed Time for all Write Operations Since Startup (ms)
- Average Elapsed Time Per Operation Since Startup (ms)
- Average Elapsed Time Per Operation (ms)
- Modify Operations Since Startup
- Modify Operations Per Second Since Startup
- Modify Operations Per Second
- Add Operations Since Startup
- Add Operations Per Second Since Startup
- Add Operations Per Second
- Mod DN Operations Since Startup
- Mod DN Operations Per Second Since Startup
- Mod DN Operations Per Second
- Delete Operations Since Startup

- Delete Operations Per Second Since Startup
- Delete Operations Per Second
- Elapsed Time for Modify Operations Since Startup
- Average Elapsed Time Per Modify Since Startup
- Average Elapsed Time Per Modify
- Elapsed Time for Add Operations Since Startup
- Average Elapsed Time Per Add Since Startup
- Average Elapsed Time Per Add
- Elapsed Time for Mod DN Operations Since Startup
- Average Elapsed Time Per Mod DN Since Startup
- Average Elapsed Time Per Mod DN
- Elapsed Time for Delete Operations Since Startup
- Average Elapsed Time Per Delete Since Startup
- Average Elapsed Time Per Delete

B.12.1 Administration Connector Port

Target Version
All versions

Collection Frequency
Every 5 minutes

B.12.2 Write Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.12.3 Write Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Write Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.12.4 Write Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Write Operations Per Second value crossed warning threshold or critical threshold.

B.12.5 Total Elapsed Time for all Write Operations Since Startup (ms)

Target Version
All versions

Collection Frequency
Every 5 minutes

B.12.6 Average Elapsed Time Per Operation Since Startup (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation Since Startup value crossed warning threshold or critical threshold.

B.12.7 Average Elapsed Time Per Operation (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation value crossed warning threshold or critical threshold

B.12.8 Modify Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.12.9 Modify Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Modify Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.12.10 Modify Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Modify Operations Per Second value crossed warning threshold or critical threshold.

B.12.11 Add Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.12.12 Add Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Add Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.12.13 Add Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Add Operations Per Second value crossed warning threshold or critical threshold.

B.12.14 Mod DN Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.12.15 Mod DN Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Mod DN Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.12.16 Mod DN Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Mod DN Operations Per Second value crossed warning threshold or critical threshold.

B.12.17 Delete Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.12.18 Delete Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delete Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.12.19 Delete Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delete Operations Per Second value crossed warning threshold or critical threshold.

B.12.20 Elapsed Time for Modify Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.12.21 Average Elapsed Time Per Modify Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Modify Since Startup value crossed warning threshold or critical threshold.

B.12.22 Average Elapsed Time Per Modify

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Modify value crossed warning threshold or critical threshold.

B.12.23 Elapsed Time for Add Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.12.24 Average Elapsed Time Per Add Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Add Since Startup value crossed warning threshold or critical threshold.

B.12.25 Average Elapsed Time Per Add

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Add value crossed warning threshold or critical threshold.

B.12.26 Elapsed Time for Mod DN Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.12.27 Average Elapsed Time Per Mod DN Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Mod DN Since Startup value crossed warning threshold or critical threshold.

B.12.28 Average Elapsed Time Per Mod DN

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Mod DN value crossed warning threshold or critical threshold.

B.12.29 Elapsed Time for Delete Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.12.30 Average Elapsed Time Per Delete Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Delete Since Startup value crossed warning threshold or critical threshold.

B.12.31 Average Elapsed Time Per Delete

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Delete value crossed warning threshold or critical threshold.

B.13 Administration Connector Extended Operations Metrics

- Administration Connector Port
- Extended Operations Since Startup
- Extended Operations Per Second Since Startup
- Extended Operations Per Second
- Elapsed Time for Extended Operations Since Startup
- Average Elapsed Time Per Extended Since Startup
- Average Elapsed Time Per Extended

B.13.1 Administration Connector Port

Target Version
All versions

Collection Frequency
Every 5 minutes

B.13.2 Extended Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.13.3 Extended Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Extended Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.13.4 Extended Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Extended Operations Per Second value crossed warning threshold or critical threshold.

B.13.5 Elapsed Time for Extended Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.13.6 Average Elapsed Time Per Extended Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Extended Since Startup value crossed warning threshold or critical threshold.

B.13.7 Average Elapsed Time Per Extended

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Extended value crossed warning threshold or critical threshold.

B.14 Connection Handlers Configuration Metrics

- Name
- Type
- Port
- Enabled
- Is SSL

B.14.1 Name

Target Version
All versions

Collection Frequency
Every 5 minutes

B.14.2 Type

Target Version
All versions

Collection Frequency
Every 5 minutes

B.14.3 Port

Target Version
All versions

Collection Frequency
Every 5 minutes

B.14.4 Enabled

Target Version
All versions

Collection Frequency
Every 5 minutes

B.14.5 Is SSL

Target Version
All versions

Collection Frequency
Every 5 minutes

B.15 Connection Handlers General Information Metrics

- Connection Handler Name
- Operations Initiated Since Startup
- Operations Initiated Per Second Since Startup
- Operations Initiated Per Second
- Operations Completed Since Startup
- Operations Completed Per Second Since Startup
- Operations Completed Per Second
- Operations Unsuccessful Since Startup
- Operations Unsuccessful Per Second Since Startup
- Operations Unsuccessful Per Second
- Elapsed Time for all Operations Since Startup
- Average Elapsed Time Per Operation Since Startup
- Average Elapsed Time Per Operation

- Current Connections
- Total Connections
- Total Connections Per Second
- Delta Total Connections Per Second
- Total Returned Search Result Entries Since Startup
- Returned Search Result Entries Per Second Since Startup
- Returned Search Result Entries Per Second
- Total MB Read
- KB Read Per Second Since Startup
- KB Read Per Second
- Total MB Written
- KB Written Per Second Since Startup
- KB Written Per Second

B.15.1 Connection Handler Name

Target Version
All versions

Collection Frequency
Every 5 minutes

B.15.2 Operations Initiated Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.15.3 Operations Initiated Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Operations Initiated Per Second Since Startup value crossed warning threshold or critical threshold.

B.15.4 Operations Initiated Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Operations Initiated Per Second value crossed warning threshold or critical threshold.

B.15.5 Operations Completed Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.15.6 Operations Completed Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Operations Completed Per Second Since Startup value crossed warning threshold or critical threshold.

B.15.7 Operations Completed Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Operations Completed Per Second value crossed warning threshold or critical threshold.

B.15.8 Operations Unsuccessful Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.15.9 Operations Unsuccessful Per Second Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.15.10 Operations Unsuccessful Per Second

Target Version
All versions

Collection Frequency
Every 5 minutes

B.15.11 Elapsed Time for all Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.15.12 Average Elapsed Time Per Operation Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation Since Startup value crossed warning threshold or critical threshold.

B.15.13 Average Elapsed Time Per Operation

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation value crossed warning threshold or critical threshold.

B.15.14 Current Connections

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Current Connections value crossed warning threshold or critical threshold.

B.15.15 Total Connections

Target Version
All versions

Collection Frequency
Every 5 minutes

B.15.16 Total Connections Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Total Connections Per Second value crossed warning threshold or critical threshold.

B.15.17 Delta Total Connections Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delta Total Connections Per Second value crossed warning threshold or critical threshold.

B.15.18 Total Returned Search Result Entries Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.15.19 Returned Search Result Entries Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Returned Search Result Entries Per Second Since Startup value crossed warning threshold or critical threshold.

B.15.20 Returned Search Result Entries Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Returned Search Result Entries Per Second value crossed warning threshold or critical threshold.

B.15.21 Total MB Read

Target Version
All versions

Collection Frequency
Every 5 minutes

B.15.22 KB Read Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
KB Read Per Second Since Startup value crossed warning threshold or critical threshold.

B.15.23 KB Read Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
KB Read Per Second value crossed warning threshold or critical threshold.

B.15.24 Total MB Written

Target Version
All versions

Collection Frequency
Every 5 minutes

B.15.25 KB Written Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
KB Written Per Second Since Startup value crossed warning threshold or critical threshold.

B.15.26 KB Written Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
KB Written Per Second value crossed warning threshold or critical threshold.

B.16 Connection Handlers Read Operations Metrics

- Connection Handler Name
- Read Operations Since Startup
- Read Operations Per Second Since Startup
- Read Operations Per Second
- Total Elapsed Time for all Read Operations Since Startup (ms)
- Average Elapsed Time Per Operation Since Startup (ms)
- Average Elapsed Time Per Operation (ms)
- Bind Operations Since Startup
- Bind Operations Per Second Since Startup
- Bind Operations Per Second
- Search Operations Since Startup
- Search Operations Per Second Since Startup
- Search Operations Per Second
- Unbind Operations Since Startup
- Unbind Operations Per Second Since Startup
- Unbind Operations Per Second
- Abandon Operations Since Startup
- Abandon Operations Per Second Since Startup
- Abandon Operations Per Second
- Compare Operations Since Startup
- Compare Operations Per Second Since Startup
- Compare Operations Per Second
- Elapsed Time for Bind Operations Since Startup
- Average Elapsed Time Per Bind Since Startup
- Average Elapsed Time Per Bind
- Elapsed Time for Search Operations Since Startup
- Average Elapsed Time Per Search Since Startup
- Average Elapsed Time Per Search
- Elapsed Time for Unbind Operations Since Startup
- Average Elapsed Time Per Unbind Since Startup
- Average Elapsed Time Per Unbind
- Elapsed Time for Abandon Operations Since Startup
- Average Elapsed Time Per Abandon Since Startup
- Average Elapsed Time Per Abandon
- Elapsed Time for Compare Operations Since Startup
- Average Elapsed Time Per Compare Since Startup
- Average Elapsed Time Per Compare

B.16.1 Connection Handler Name

Target Version
All versions

Collection Frequency
Every 5 minutes

B.16.2 Read Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.16.3 Read Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Read Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.16.4 Read Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Read Operations Per Second value crossed warning threshold or critical threshold.

B.16.5 Total Elapsed Time for all Read Operations Since Startup (ms)

Target Version
All versions

Collection Frequency
Every 5 minutes

B.16.6 Average Elapsed Time Per Operation Since Startup (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation Since Startup value crossed warning threshold or critical threshold.

B.16.7 Average Elapsed Time Per Operation (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation value crossed warning threshold or critical threshold.

B.16.8 Bind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.16.9 Bind Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Bind Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.16.10 Bind Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Bind Operations Per Second value crossed warning threshold or critical threshold.

B.16.11 Search Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.16.12 Search Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Search Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.16.13 Search Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Search Operations Per Second value crossed warning threshold or critical threshold.

B.16.14 Unbind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.16.15 Unbind Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Unbind Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.16.16 Unbind Operations Per Second

Target Version
All versions

Collection Frequency
Every 5 minutes

B.16.17 Abandon Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.16.18 Abandon Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Abandon Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.16.19 Abandon Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Abandon Operations Per Second value crossed warning threshold or critical threshold.

B.16.20 Compare Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.16.21 Compare Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Compare Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.16.22 Compare Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Compare Operations Per Second value crossed warning threshold or critical threshold.

B.16.23 Elapsed Time for Bind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.16.24 Average Elapsed Time Per Bind Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Bind Since Startup value crossed warning threshold or critical threshold.

B.16.25 Average Elapsed Time Per Bind

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Bind value crossed warning threshold or critical threshold.

B.16.26 Elapsed Time for Search Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.16.27 Average Elapsed Time Per Search Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Search Since Startup value crossed warning threshold or critical threshold.

B.16.28 Average Elapsed Time Per Search

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Search value crossed warning threshold or critical threshold.

B.16.29 Elapsed Time for Unbind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.16.30 Average Elapsed Time Per Unbind Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Unbind Since Startup value crossed warning threshold or critical threshold.

B.16.31 Average Elapsed Time Per Unbind

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Unbind value crossed warning threshold or critical threshold.

B.16.32 Elapsed Time for Abandon Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.16.33 Average Elapsed Time Per Abandon Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Abandon Since Startup value crossed warning threshold or critical threshold.

B.16.34 Average Elapsed Time Per Abandon

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Abandon value crossed warning threshold or critical threshold.

B.16.35 Elapsed Time for Compare Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.16.36 Average Elapsed Time Per Compare Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Default Critical Threshold
True

Alert Text
Average Elapsed Time Per Compare Since Startup value crossed warning threshold or critical threshold.

B.16.37 Average Elapsed Time Per Compare

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Compare value crossed warning threshold or critical threshold.

B.17 Connection Handlers Write Operations Metrics

- Connection Handler Name
- Write Operations Since Startup
- Write Operations Per Second Since Startup
- Write Operations Per Second
- Total Elapsed Time for all Write Operations Since Startup (ms)
- Average Elapsed Time Per Operation Since Startup (ms)
- Average Elapsed Time Per Operation (ms)
- Modify Operations Since Startup
- Modify Operations Per Second Since Startup
- Modify Operations Per Second
- Add Operations Since Startup
- Add Operations Per Second Since Startup
- Add Operations Per Second
- Mod DN Operations Since Startup
- Mod DN Operations Per Second Since Startup
- Mod DN Operations Per Second
- Delete Operations Since Startup
- Delete Operations Per Second Since Startup
- Delete Operations Per Second
- Elapsed Time for Modify Operations Since Startup
- Average Elapsed Time Per Modify Since Startup
- Average Elapsed Time Per Modify
- Elapsed Time for Add Operations Since Startup
- Average Elapsed Time Per Add Since Startup
- Average Elapsed Time Per Add
- Elapsed Time for Mod DN Operations Since Startup
- Average Elapsed Time Per Mod DN Since Startup
- Average Elapsed Time Per Mod DN
- Elapsed Time for Delete Operations Since Startup
- Average Elapsed Time Per Delete Since Startup
- Average Elapsed Time Per Delete

B.17.1 Connection Handler Name

Target Version
All versions

Collection Frequency
Every 5 minutes

B.17.2 Write Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.17.3 Write Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Write Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.17.4 Write Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Write Operations Per Second value crossed warning threshold or critical threshold.

B.17.5 Total Elapsed Time for all Write Operations Since Startup (ms)

Target Version
All versions

Collection Frequency
Every 5 minutes

B.17.6 Average Elapsed Time Per Operation Since Startup (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation Since Startup value crossed warning threshold or critical threshold.

B.17.7 Average Elapsed Time Per Operation (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation value crossed warning threshold or critical threshold.

B.17.8 Modify Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.17.9 Modify Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Modify Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.17.10 Modify Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Modify Operations Per Second value crossed warning threshold or critical threshold.

B.17.11 Add Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.17.12 Add Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Add Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.17.13 Add Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Add Operations Per Second value crossed warning threshold or critical threshold.

B.17.14 Mod DN Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.17.15 Mod DN Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Mod DN Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.17.16 Mod DN Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Mod DN Operations Per Second value crossed warning threshold or critical threshold.

B.17.17 Delete Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.17.18 Delete Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delete Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.17.19 Delete Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delete Operations Per Second value crossed warning threshold or critical threshold.

B.17.20 Elapsed Time for Modify Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.17.21 Average Elapsed Time Per Modify Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Modify Since Startup value crossed warning threshold or critical threshold.

B.17.22 Average Elapsed Time Per Modify

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Modify value crossed warning threshold or critical threshold.

B.17.23 Elapsed Time for Add Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.17.24 Average Elapsed Time Per Add Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Add Since Startup value crossed warning threshold or critical threshold.

B.17.25 Average Elapsed Time Per Add

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Add value crossed warning threshold or critical threshold.

B.17.26 Elapsed Time for Mod DN Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.17.27 Average Elapsed Time Per Mod DN Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Mod DN Since Startup value crossed warning threshold or critical threshold.

B.17.28 Average Elapsed Time Per Mod DN

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Mod DN value crossed warning threshold or critical threshold.

B.17.29 Elapsed Time for Delete Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.17.30 Average Elapsed Time Per Delete Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Delete Since Startup value crossed warning threshold or critical threshold.

B.17.31 Average Elapsed Time Per Delete

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Delete value crossed warning threshold or critical threshold.

B.18 Connection Handlers Extended Operations Metrics

- Connection Handler Name
- Extended Operations Since Startup
- Extended Operations Per Second Since Startup

- [Extended Operations Per Second](#)
- [Elapsed Time for Extended Operations Since Startup](#)
- [Average Elapsed Time Per Extended Since Startup](#)
- [Average Elapsed Time Per Extended](#)

B.18.1 Connection Handler Name

Target Version
All versions

Collection Frequency
Every 5 minutes

B.18.2 Extended Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.18.3 Extended Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Extended Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.18.4 Extended Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Extended Operations Per Second value crossed warning threshold or critical threshold.

B.18.5 Elapsed Time for Extended Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.18.6 Average Elapsed Time Per Extended Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Extended Since Startup value crossed warning threshold or critical threshold.

B.18.7 Average Elapsed Time Per Extended

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Extended value crossed warning threshold or critical threshold.

B.19 CPU Utilization (%)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
CPU Usage value crossed warning threshold or critical threshold.

B.20 Server Resource Usage Metrics

- Max Allowed Heap
- Used Memory Inside Heap
- Free Memory Inside Heap
- Heap Size
- Non-Heap Size
- Memory Code Cache Used
- Memory Perm Gen Bytes Used
- Memory Survivor Used
- Memory Eden Used
- Memory Old Gen Used

- Number of scavenge Collector processing
- Duration of the last scavenge Collector processing
- Average Duration of the last scavenge Collector processing
- Number of markSweep Collector processing
- Duration of the last markSweep Collector processing
- Average Duration of the last markSweep Collector processing

B.20.1 Max Allowed Heap

Target Version
All versions

Collection Frequency
Every 5 minutes

B.20.2 Used Memory Inside Heap

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Default Critical Threshold
True

Alert Text
Used Memory in Heap value crossed warning threshold or critical threshold.

B.20.3 Free Memory Inside Heap

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Less than

Alert Text
Free Memory in Heap value crossed warning threshold or critical threshold.

B.20.4 Heap Size

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Heap Size value crossed warning threshold or critical threshold.

B.20.5 Non-Heap Size

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Non-Heap Size value crossed warning threshold or critical threshold.

B.20.6 Memory Code Cache Used

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Memory CodeCache Used value crossed warning threshold or critical threshold.

B.20.7 Memory Perm Gen Bytes Used

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Memory PermGen Used value crossed warning threshold or critical threshold.

B.20.8 Memory Survivor Used

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Memory Survivor Used value crossed warning threshold or critical threshold.

B.20.9 Memory Eden Used

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Memory Eden Used value crossed warning threshold or critical threshold.

B.20.10 Memory Old Gen Used

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Memory OldGen Used value crossed warning threshold or critical threshold.

B.20.11 Number of scavenge Collector processing

Target Version
All versions

Collection Frequency
Every 5 minutes

B.20.12 Duration of the last scavenge Collector processing

Target Version
All versions

Collection Frequency
Every 5 minutes

B.20.13 Average Duration of the last scavenge Collector processing

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Duration of the scavenge Collector processing value crossed warning threshold or critical threshold.

B.20.14 Number of markSweep Collector processing

Target Version
All versions

Collection Frequency
Every 5 minutes

B.20.15 Duration of the last markSweep Collector processing

Target Version
All versions

Collection Frequency
Every 5 minutes

B.20.16 Average Duration of the last markSweep Collector processing

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Duration of the markSweep Collector processing value crossed warning threshold or critical threshold.

B.21 General Remote LDAP Servers Information Metrics

- General Remote LDAP Servers Information Metrics
- Host Name
- LDAP Port
- LDAPS Port
- Associated Suffixes and Workflow Elements
- State
- Last Update Date
- Last Down Date
- Total Operations Completed Since Startup
- Total Operations Completed Per Second Since Startup
- Total Operations Completed Per Second

- Total Elapsed Time for all Operations Since Startup (ms)
- Average Elapsed Time Per Operation Since Startup (ms)
- Average Elapsed Time Per Operation (ms)
- Total Failed Operations Per Second Since Startup
- Total Failed Operations Per Second Since Startup
- Total Failed Operations Per Second
- Total Aborted Operations Since Startup
- Total Aborted Operations Per Second Since Startup
- Total Aborted Operations Per Second

B.21.1 General Remote LDAP Servers Information Metrics

Target Version
All versions

Collection Frequency
Every 5 minutes

B.21.2 Host Name

Target Version
All versions

Collection Frequency
Every 5 minutes

B.21.3 LDAP Port

Target Version
All versions

Collection Frequency
Every 5 minutes

B.21.4 LDAPS Port

Target Version
All versions

Collection Frequency
Every 5 minutes

B.21.5 Associated Suffixes and Workflow Elements

Target Version
All versions

Collection Frequency
Every 5 minutes

B.21.6 State

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
State value crossed warning threshold or critical threshold.

B.21.7 Last Update Date

Target Version
All versions

Collection Frequency
Every 5 minutes

B.21.8 Last Down Date

Target Version
All versions

Collection Frequency
Every 5 minutes

B.21.9 Total Operations Completed Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.21.10 Total Operations Completed Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Total Operations Completed Per Second Since Startup value crossed warning threshold or critical threshold.

B.21.11 Total Operations Completed Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Total Operations Completed Per Second value crossed warning threshold or critical threshold.

B.21.12 Total Elapsed Time for all Operations Since Startup (ms)

Target Version
All versions

Collection Frequency
Every 5 minutes

B.21.13 Average Elapsed Time Per Operation Since Startup (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation Since Startup value crossed warning threshold or critical threshold.

B.21.14 Average Elapsed Time Per Operation (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation value crossed warning threshold or critical threshold.

B.21.15 Total Failed Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.21.16 Total Failed Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Total Failed Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.21.17 Total Failed Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Total Failed Operations Per Second value crossed warning threshold or critical threshold.

B.21.18 Total Aborted Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.21.19 Total Aborted Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Total Aborted Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.21.20 Total Aborted Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Total Aborted Operations Per Second value crossed warning threshold or critical threshold.

B.22 Remote LDAP Servers Connection Pool Metrics

- Name
- Pool Connections

- Pool Full Time Since Startup
- Used Connections
- Free Connections
- Pool Max Size
- Connections in Client Bound Connection Cache
- Connections in Proxy Bound Connection Cache
- Released Invalid Connections
- Client Connections Connected

B.22.1 Name

Target Version
All versions

Collection Frequency
Every 5 minutes

B.22.2 Pool Connections

Target Version
All versions

Collection Frequency
Every 5 minutes

B.22.3 Pool Full Time Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.22.4 Used Connections

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Used Connections value crossed warning threshold or critical threshold.

B.22.5 Free Connections

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Less than

Alert Text
Free Connections value crossed warning threshold or critical threshold.

B.22.6 Pool Max Size

Target Version
All versions

Collection Frequency
Every 5 minutes

B.22.7 Connections in Client Bound Connection Cache

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Connections in Client Bound Connection Cache value crossed warning threshold or critical threshold.

B.22.8 Connections in Proxy Bound Connection Cache

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Connections in Proxy Bound Connection Cache value crossed warning threshold or critical threshold.

B.22.9 Released Invalid Connections

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Released Invalid Connections value crossed warning threshold or critical threshold.

B.22.10 Client Connections Connected

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Client Connections Connected value crossed warning threshold or critical threshold.

B.23 Remote LDAP Servers Read Operations Metrics

- Name
- Number of Read Operations Since Startup
- Number of Read Operations Per Second Since Startup
- Number of Read Operations Per Second
- Total Elapsed Time for all Read Operations Since Startup (ms)
- Average Elapsed Time Per Operation Since Startup (ms)
- Average Elapsed Time Per Read Operation (ms)
- Bind Operations Since Startup
- Bind Operations Per Second Since Startup
- Bind Operations Per Second
- Search Base Operations Since Startup
- Search Base Operations Per Second Since Startup
- Search Base Operations Per Second
- Search One Operations Since Startup
- Search One Operations Per Second Since Startup
- Search One Operations Per Second
- Search Subtree Operations Since Startup
- Search Subtree Operations Per Second Since Startup
- Search Subtree Operations Per Second
- Abandon Operations Since Startup
- Abandon Operations Per Second Since Startup
- Abandon Operations Per Second
- Compare Operations Since Startup
- Compare Operations Per Second Since Startup
- Compare Operations Per Second
- Current Persistent Searches
- Elapsed Time for Bind Operations Since Startup
- Average Elapsed Time Per Bind Since Startup
- Average Elapsed Time Per Bind
- Elapsed Time for Search Base Operations Since Startup
- Average Elapsed Time Per Search Base Since Startup
- Average Elapsed Time Per Search Base
- Elapsed Time for Search One Operations Since Startup
- Average Elapsed Time Per Search One Since Startup
- Average Elapsed Time Per Search One
- Elapsed Time for Search Subtree Operations Since Startup
- Average Elapsed Time Per Search Subtree Since Startup
- Average Elapsed Time Per Search Subtree
- Elapsed Time for Compare Operations Since Startup
- Average Elapsed Time Per Compare Since Startup
- Average Elapsed Time Per Compare

B.23.1 Name

Target Version
All versions

Collection Frequency
Every 5 minutes

B.23.2 Number of Read Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.23.3 Number of Read Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Read Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.23.4 Number of Read Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Read Operations Per Second value crossed warning threshold or critical threshold.

B.23.5 Total Elapsed Time for all Read Operations Since Startup (ms)

Target Version
All versions

Collection Frequency
Every 5 minutes

B.23.6 Average Elapsed Time Per Operation Since Startup (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text

Average Elapsed Time Per Operation Since Startup value crossed warning threshold or critical threshold.

B.23.7 Average Elapsed Time Per Read Operation (ms)

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency

After every sample

Operator

Greater than

Alert Text

Average Elapsed Time Per Operation value crossed warning threshold or critical threshold.

B.23.8 Bind Operations Since Startup

Target Version

All versions

Collection Frequency

Every 5 minutes

B.23.9 Bind Operations Per Second Since Startup

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency

After every sample

Operator

Greater than

Alert Text

Bind Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.23.10 Bind Operations Per Second

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Bind Operations Per Second value crossed warning threshold or critical threshold.

B.23.11 Search Base Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.23.12 Search Base Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Search Base Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.23.13 Search Base Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Search Base Operations Per Second value crossed warning threshold or critical threshold.

B.23.14 Search One Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.23.15 Search One Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Search One Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.23.16 Search One Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Search One Operations Per Second value crossed warning threshold or critical threshold.

B.23.17 Search Subtree Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.23.18 Search Subtree Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Search Subtree Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.23.19 Search Subtree Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Search Subtree Operations Per Second value crossed warning threshold or critical threshold.

B.23.20 Abandon Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.23.21 Abandon Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Abandon Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.23.22 Abandon Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Abandon Operations Per Second value crossed warning threshold or critical threshold.

B.23.23 Compare Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.23.24 Compare Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Compare Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.23.25 Compare Operations Per Second

Target Version
All versions

Collection Frequency
Every 5 minutes

B.23.26 Current Persistent Searches

Target Version
All versions

Collection Frequency
Every 5 minutes

B.23.27 Elapsed Time for Bind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.23.28 Average Elapsed Time Per Bind Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Bind Since Startup value crossed warning threshold or
critical threshold.

B.23.29 Average Elapsed Time Per Bind

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Bind value crossed warning threshold or critical threshold.

B.23.30 Elapsed Time for Search Base Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.23.31 Average Elapsed Time Per Search Base Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Search Base Since Startup value crossed warning threshold or critical threshold.

B.23.32 Average Elapsed Time Per Search Base

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Search Base value crossed warning threshold or critical threshold.

B.23.33 Elapsed Time for Search One Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.23.34 Average Elapsed Time Per Search One Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Search One Since Startup value crossed warning threshold or critical threshold.

B.23.35 Average Elapsed Time Per Search One

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Search One value crossed warning threshold or critical threshold.

B.23.36 Elapsed Time for Search Subtree Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.23.37 Average Elapsed Time Per Search Subtree Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Search Subtree Since Startup value crossed warning threshold or critical threshold.

B.23.38 Average Elapsed Time Per Search Subtree

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Search Subtree value crossed warning threshold or critical threshold.

B.23.39 Elapsed Time for Compare Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.23.40 Average Elapsed Time Per Compare Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Compare Since Startup value crossed warning threshold or critical threshold.

B.23.41 Average Elapsed Time Per Compare

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Compare value crossed warning threshold or critical threshold.

B.24 Remote LDAP Servers Write Operations Metrics

- Name
- Write Operations Since Startup
- Write Operations Per Second Since Startup
- Write Operations Per Second
- Total Elapsed Time for all Write Operations Since Startup (ms)
- Average Elapsed Time Per Operation Since Startup (ms)
- Average Elapsed Time Per Operation (ms)
- Modify Operations Since Startup
- Modify Operations Per Second Since Startup
- Modify Operations Per Second
- Add Operations Since Startup
- Add Operations Per Second Since Startup
- Add Operations Per Second
- Mod DN Operations Since Startup
- Mod DN Operations Per Second Since Startup
- Mod DN Operations Per Second
-

- Delete Operations Since Startup
- Delete Operations Per Second Since Startup
- Delete Operations Per Second
- Elapsed Time for Modify Operations Since Startup
- Average Elapsed Time Per Modify Since Startup
- Average Elapsed Time Per Modify
- Elapsed Time for Add Operations Since Startup
- Average Elapsed Time Per Add Since Startup
- Average Elapsed Time Per Add
- Elapsed Time for Mod DN Operations Since Startup
- Average Elapsed Time Per Mod DN Since Startup
- Average Elapsed Time Per Mod DN
- Elapsed Time for Delete Operations Since Startup
- Average Elapsed Time Per Delete Since Startup
- Average Elapsed Time Per Delete

B.24.1 Name

Target Version
All versions

Collection Frequency
Every 5 minutes

B.24.2 Write Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.24.3 Write Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Write Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.24.4 Write Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Write Operations Per Second value crossed warning threshold or critical threshold.

B.24.5 Total Elapsed Time for all Write Operations Since Startup (ms)

Target Version
All versions

Collection Frequency
Every 5 minutes

B.24.6 Average Elapsed Time Per Operation Since Startup (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation Since Startup value crossed warning threshold or critical threshold.

B.24.7 Average Elapsed Time Per Operation (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation value crossed warning threshold or critical threshold.

B.24.8 Modify Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.24.9 Modify Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Modify Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.24.10 Modify Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Modify Operations Per Second value crossed warning threshold or critical threshold.

B.24.11 Add Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.24.12 Add Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Add Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.24.13 Add Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Add Operations Per Second value crossed warning threshold or critical threshold.

B.24.14 Mod DN Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.24.15 Mod DN Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Mod DN Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.24.16 Mod DN Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Mod DN Operations Per Second value crossed warning threshold or critical threshold.

B.24.17 Delete Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.24.18 Delete Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delete Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.24.19 Delete Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delete Operations Per Second value crossed warning threshold or critical threshold.

B.24.20 Elapsed Time for Modify Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.24.21 Average Elapsed Time Per Modify Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text

Average Elapsed Time Per Modify Since Startup value crossed warning threshold or critical threshold.

B.24.22 Average Elapsed Time Per Modify

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency

After every sample

Operator

Greater than

Alert Text

Average Elapsed Time Per Modify value crossed warning threshold or critical threshold.

B.24.23 Elapsed Time for Add Operations Since Startup

Target Version

All versions

Collection Frequency

Every 5 minutes

B.24.24 Average Elapsed Time Per Add Since Startup

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency

After every sample

Operator

Greater than

Alert Text

Average Elapsed Time Per Add Since Startup value crossed warning threshold or critical threshold.

B.24.25 Average Elapsed Time Per Add

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Add value crossed warning threshold or critical threshold.

B.24.26 Elapsed Time for Mod DN Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.24.27 Average Elapsed Time Per Mod DN Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Mod DN Since Startup value crossed warning threshold or critical threshold.

B.24.28 Average Elapsed Time Per Mod DN

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Mod DN value crossed warning threshold or critical threshold.

B.24.29 Elapsed Time for Delete Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.24.30 Average Elapsed Time Per Delete Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Delete Since Startup value crossed warning threshold or critical threshold.

B.24.31 Average Elapsed Time Per Delete

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Delete value crossed warning threshold or critical threshold.

B.25 Remote LDAP Servers Extended Operations Metrics

- Name
- Extended Operations Since Startup
- Extended Operations Per Second Since Startup
- Extended Operations Per Second
- Elapsed Time for Extended Operations Since Startup
- Average Elapsed Time Per Extended Since Startup

- [Average Elapsed Time Per Extended](#)

B.25.1 Name

Target Version
All versions

Collection Frequency
Every 5 minutes

B.25.2 Extended Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.25.3 Extended Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Extended Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.25.4 Extended Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Extended Operations Per Second value crossed warning threshold or critical threshold.

B.25.5 Elapsed Time for Extended Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.25.6 Average Elapsed Time Per Extended Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Extended Since Startup value crossed warning threshold or critical threshold.

B.25.7 Average Elapsed Time Per Extended

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Extended value crossed warning threshold or critical threshold.

B.26 Remote LDAP Servers Read Errors Metrics

- Name
- Failed Read Operations Since Startup
- Failed Read Operations Per Second Since Startup
- Failed Read Operations Per Second
- Aborted Read Operations Since Startup
- Aborted Read Operations Per Second Since Startup
- Aborted Read Operations Per Second
- Failed Bind Operations Since Startup
- Failed Bind Operations Per Second Since Startup
- Failed Bind Operations Per Second
- Failed Search Base Operations Since Startup
- Failed Search Base Operations Per Second Since Startup
- Failed Search Base Operations Per Second
- Failed Search One Operations Since Startup
- Failed Search One Operations Per Second Since Startup
- Failed Search One Operations Per Second
- Failed Search Subtree Operations Since Startup
- Failed Search Subtree Operations Per Second Since Startup
- Failed Search Subtree Operations Per Second
- Failed Compare Operations Since Startup
- Failed Compare Operations Per Second Since Startup
- Failed Compare Operations Per Second
- Aborted Bind Operations Since Startup
- Aborted Bind Operations Per Second Since Startup
- Aborted Bind Operations Per Second
- Aborted Search Base Operations Since Startup
- Aborted Search Base Operations Per Second Since Startup
- Aborted Search Base Operations Per Second
- Aborted Search One Operations Since Startup
- Aborted Search One Operations Per Second Since Startup
- Aborted Search One Operations Per Second
- Aborted Search Subtree Operations Since Startup
- Aborted Search Subtree Operations Per Second Since Startup
- Aborted Search Subtree Operations Per Second
- Aborted Compare Operations Since Startup
- Aborted Compare Operations Per Second Since Startup
- Aborted Compare Operations Per Second

B.26.1 Name

Target Version
All versions

Collection Frequency
Every 5 minutes

B.26.2 Failed Read Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.26.3 Failed Read Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Read Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.26.4 Failed Read Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Read Operations Per Second value crossed warning threshold or critical threshold.

B.26.5 Aborted Read Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.26.6 Aborted Read Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Read Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.26.7 Aborted Read Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Read Operations Per Second value crossed warning threshold or critical threshold.

B.26.8 Failed Bind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.26.9 Failed Bind Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Bind Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.26.10 Failed Bind Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Bind Operations Per Second value crossed warning threshold or critical threshold.

B.26.11 Failed Search Base Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.26.12 Failed Search Base Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Search Base Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.26.13 Failed Search Base Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Search Base Operations Per Second value crossed warning threshold or critical threshold.

B.26.14 Failed Search One Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.26.15 Failed Search One Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Search One Operations Per Second Since Startup value crossed warning or critical threshold.

B.26.16 Failed Search One Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Search One Operations Per Second value crossed warning threshold or critical threshold.

B.26.17 Failed Search Subtree Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.26.18 Failed Search Subtree Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Search Subtree Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.26.19 Failed Search Subtree Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Search Subtree Operations Per Second value crossed warning threshold or critical threshold.

B.26.20 Failed Compare Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.26.21 Failed Compare Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Compare Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.26.22 Failed Compare Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Compare Operations Per Second value crossed warning threshold or critical threshold.

B.26.23 Aborted Bind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.26.24 Aborted Bind Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Bind Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.26.25 Aborted Bind Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Bind Operations Per Second value crossed warning threshold or critical threshold.

B.26.26 Aborted Search Base Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.26.27 Aborted Search Base Operations Per Second Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.26.28 Aborted Search Base Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Search Base Operations Per Second value crossed warning threshold or critical threshold.

B.26.29 Aborted Search One Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.26.30 Aborted Search One Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Search One Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.26.31 Aborted Search One Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Search One Operations Per Second value crossed warning threshold or critical threshold.

B.26.32 Aborted Search Subtree Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.26.33 Aborted Search Subtree Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Search Subtree Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.26.34 Aborted Search Subtree Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Search Subtree Operations Per Second value crossed warning threshold or critical threshold.

B.26.35 Aborted Compare Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.26.36 Aborted Compare Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Compare Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.26.37 Aborted Compare Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Compare Operations Per Second value crossed warning threshold or critical threshold.

B.27 Remote LDAP Servers Write Errors Metrics

- Name
- Failed Write Operations Since Startup
- Failed Write Operations Per Second Since Startup
- Failed Write Operations Per Second
- Aborted Write Operations Since Startup
- Aborted Write Operations Per Second Since Startup
- Aborted Write Operations Per Second
- Failed Modify Operations Since Startup
- Failed Modify Operations Per Second Since Startup
- Failed Modify Operations Per Second
- Failed Add Operations Since Startup
- Failed Add Operations Per Second Since Startup
- Failed Add Operations Per Second
- Failed Mod DN Operations Since Startup
- Failed Mod DN Operations Per Second Since Startup
- Failed Mod DN Operations Per Second

- Failed Delete Operations Since Startup
- Failed Delete Operations Per Second Since Startup
- Failed Delete Operations Per Second
- Aborted Modify Operations Since Startup
- Aborted Modify Operations Per Second Since Startup
- Aborted Modify Operations Per Second
- Aborted Add Operations Since Startup
- Aborted Add Operations Per Second Since Startup
- Aborted Add Operations Per Second
- Aborted Mod DN Operations Since Startup
- Aborted Mod DN Operations Per Second Since Startup
- Aborted Mod DN Operations Per Second
- Aborted Delete Operations Since Startup
- Aborted Delete Operations Per Second Since Startup
- Aborted Delete Operations Per Second

B.27.1 Name

Target Version
All versions

Collection Frequency
Every 5 minutes

B.27.2 Failed Write Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.27.3 Failed Write Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Write Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.27.4 Failed Write Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Write Operations Per Second value crossed warning threshold or critical threshold.

B.27.5 Aborted Write Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.27.6 Aborted Write Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Write Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.27.7 Aborted Write Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Write Operations Per Second value crossed warning threshold or critical threshold.

B.27.8 Failed Modify Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.27.9 Failed Modify Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Modify Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.27.10 Failed Modify Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Modify Operations Per Second value crossed warning threshold or critical threshold.

B.27.11 Failed Add Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.27.12 Failed Add Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Add Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.27.13 Failed Add Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Add Operations Per Second value crossed warning threshold or critical threshold.

B.27.14 Failed Mod DN Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.27.15 Failed Mod DN Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Mod DN Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.27.16 Failed Mod DN Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Mod DN Operations Per Second value crossed warning threshold or critical threshold.

B.27.17 Failed Delete Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.27.18 Failed Delete Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Delete Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.27.19 Failed Delete Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Delete Operations Per Second value crossed warning threshold or critical threshold.

B.27.20 Aborted Modify Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.27.21 Aborted Modify Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Modify Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.27.22 Aborted Modify Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Modify Operations Per Second value crossed warning threshold or critical threshold.

B.27.23 Aborted Add Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.27.24 Aborted Add Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Add Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.27.25 Aborted Add Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Add Operations Per Second value crossed warning threshold or critical threshold.

B.27.26 Aborted Mod DN Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.27.27 Aborted Mod DN Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Mod DN Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.27.28 Aborted Mod DN Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Mod DN Operations Per Second value crossed warning threshold or critical threshold.

B.27.29 Aborted Delete Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.27.30 Aborted Delete Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Delete Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.27.31 Aborted Delete Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Delete Operations Per Second value crossed warning threshold or critical threshold.

B.28 Remote LDAP Servers Extended Errors Metrics

- Name
- Failed Extended Operations Since Startup

- [Failed Extended Operations Per Second Since Startup](#)
- [Failed Extended Operations Per Second](#)
- [Aborted Extended Operations Since Startup](#)
- [Aborted Extended Operations Per Second Since Startup](#)
- [Aborted Extended Operations Per Second](#)

B.28.1 Name

Target Version
All versions

Collection Frequency
Every 5 minutes

B.28.2 Failed Extended Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.28.3 Failed Extended Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Extended Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.28.4 Failed Extended Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Extended Operations Per Second value crossed warning threshold or critical threshold.

B.28.5 Aborted Extended Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.28.6 Aborted Extended Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Extended Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.28.7 Aborted Extended Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Extended Operations Per Second value crossed warning threshold or critical threshold.

B.29 Capacity Distribution Workflow Element Information Metrics

- Workflow Element Name
- Algorithm Operations Since Startup
- Algorithm Operations Per Second Since Startup

- Algorithm Operations Per Second

- Global Index Operations Since Startup

- Global Index Operations Per Second Since Startup

- Algorithm Operations Per Second

- Broadcast Operations Since Startup

- Broadcast Operations Per Second Since Startup

- Broadcast Operations Per Second

B.29.1 Workflow Element Name

Target Version
All versions

Collection Frequency
Every 5 minutes

B.29.2 Algorithm Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.29.3 Algorithm Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Algorithm Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.29.4 Algorithm Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Algorithm Operations Per Second value crossed warning threshold or critical threshold.

B.29.5 Global Index Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.29.6 Global Index Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Global Index Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.29.7 Algorithm Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Algorithm Operations Per Second value crossed warning threshold or critical threshold.

B.29.8 Broadcast Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.29.9 Broadcast Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Broadcast Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.29.10 Broadcast Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Broadcast Operations Per Second value crossed warning threshold or critical threshold.

B.30 Capacity Distribution Partition Information Metrics

- Partition Name
- Associated Suffixes and Workflow Elements
- Space Usage Ratio (%)

B.30.1 Partition Name

Target Version
All versions

Collection Frequency
Every 5 minutes

B.30.2 Associated Suffixes and Workflow Elements

Target Version
All versions

Collection Frequency
Every 5 minutes

B.30.3 Space Usage Ratio (%)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Space Usage Ratio value crossed warning threshold or critical threshold.

B.31 Global Index Shared Cache Information Metrics

- Cache Name
- Associated Suffixes and Workflow Elements
- Used Space

B.31.1 Cache Name

Target Version
All versions

Collection Frequency
Every 5 minutes

B.31.2 Associated Suffixes and Workflow Elements

Target Version
All versions

Collection Frequency
Every 5 minutes

B.31.3 Used Space

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Used Space value crossed warning threshold or critical threshold.

B.32 Global Index Operations Metrics

- Index Name
- Index Catalog Name
- Attribute Name
- Used In
- State
- Number of Entries
- Last Access Date
- Lookup Operations Since Startup
- Lookup Operations Per Second Since Startup
- Lookup Operations Per Second
- Add Operations Since Startup
- Add Operations Per Second Since Startup
- Add Operations Per Second
- Delete Operations Since Startup
- Delete Operations Per Second Since Startup
- Delete Operations Per Second
- Lookup Elapsed Time for all Operations Since Startup (ms)
- Average Lookup Elapsed Time Per Operation Since Startup (ms)
- Average Lookup Elapsed Time Per Operation (ms)
- Add Elapsed Time for all Operations Since Startup (ms)
- Average Add Elapsed Time Per Operation Since Startup (ms)
- Average Add Elapsed Time Per Operation (ms)
- Delete Elapsed Time for all Operations Since Startup (ms)
- Average Delete Elapsed Time Per Operation Since Startup (ms)
- User Action

B.32.1 Index Name

Target Version
All versions

Collection Frequency
Every 5 minutes

B.32.2 Index Catalog Name

Target Version
All versions

Collection Frequency
Every 5 minutes

B.32.3 Attribute Name

Target Version
All versions

Collection Frequency
Every 5 minutes

B.32.4 Used In

Target Version
All versions

Collection Frequency
Every 5 minutes

B.32.5 State

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
State value crossed warning threshold or critical threshold.

B.32.6 Number of Entries

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Number of Entries value crossed warning threshold or critical threshold.

B.32.7 Last Access Date

Target Version
All versions

Collection Frequency
Every 5 minutes

B.32.8 Lookup Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.32.9 Lookup Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Lookup Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.32.10 Lookup Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Lookup Operations Per Second value crossed warning threshold or critical threshold.

B.32.11 Add Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.32.12 Add Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Add Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.32.13 Add Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Add Operations Per Second value crossed warning threshold or critical threshold.

B.32.14 Delete Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.32.15 Delete Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text

Delete Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.32.16 Delete Operations Per Second

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency

After every sample

Operator

Greater than

Alert Text

Delete Operations Per Second value crossed warning threshold or critical threshold.

B.32.17 Lookup Elapsed Time for all Operations Since Startup (ms)

Target Version

All versions

Collection Frequency

Every 5 minutes

B.32.18 Average Lookup Elapsed Time Per Operation Since Startup (ms)

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency

After every sample

Operator

Greater than

Alert Text

Average Lookup Elapsed Time Per Operation Since Startup value crossed warning threshold or critical threshold.

B.32.19 Average Lookup Elapsed Time Per Operation (ms)

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Lookup Elapsed Time Per Operation value crossed warning threshold or critical threshold.

B.32.20 Add Elapsed Time for all Operations Since Startup (ms)

Target Version
All versions

Collection Frequency
Every 5 minutes

B.32.21 Average Add Elapsed Time Per Operation Since Startup (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Add Elapsed Time Per Operation Since Startup value crossed warning threshold or critical threshold.

B.32.22 Average Add Elapsed Time Per Operation (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Add Elapsed Time Per Operation value crossed warning threshold or critical threshold.

B.32.23 Delete Elapsed Time for all Operations Since Startup (ms)

Target Version
All versions

Collection Frequency
Every 5 minutes

B.32.24 Average Delete Elapsed Time Per Operation Since Startup (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Delete Elapsed Time Per Operation Since Startup value crossed warning threshold or critical threshold.

B.32.25 User Action

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Delete Elapsed Time Per Operation value crossed warning threshold or critical threshold.

B.33 Global Index Errors Metrics

B.33.1 Index Name

Target Version
All versions

Collection Frequency
Every 5 minutes

B.33.2 Index Catalog Name

Target Version
All versions

Collection Frequency
Every 5 minutes

B.33.3 Failed Lookup Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.33.4 Failed Lookup Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Lookup Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.33.5 Failed Lookup Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Lookup Operations Per Second value crossed warning threshold or critical threshold.

B.33.6 Failed Add Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.33.7 Failed Add Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Add Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.33.8 Failed Add Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Add Operations Per Second value crossed warning threshold or critical threshold.

B.33.9 Failed Delete Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.33.10 Failed Delete Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Add Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.33.11 Failed Delete Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Add Operations Per Second value crossed warning threshold or critical threshold.

B.33.12 Aborted Lookup Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.33.13 Aborted Lookup Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Lookup Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.33.14 Aborted Lookup Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Lookup Operations Per Second value crossed warning threshold or critical threshold.

B.33.15 Aborted Add Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.33.16 Aborted Add Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Add Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.33.17 Aborted Add Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Add Operations Per Second value crossed warning threshold or critical threshold.

B.33.18 Aborted Delete Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

B.33.19 Aborted Delete Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Delete Operations Per Second Since Startup value crossed warning threshold or critical threshold.

B.33.20 Aborted Delete Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Aborted Delete Operations Per Second value crossed warning threshold or critical threshold.

B.33.21 Failed Delete Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Failed Add Operations Per Second Since Startup value crossed warning threshold or critical threshold.

C

Replication Gateway Instance Metrics

This Appendix contains the following metrics:

- Response Metrics
- General Information Metrics
- Server Role Metrics
- Replication Gateway Metrics
- Replication Gateway (Total) Metrics
- CPU Utilization (%)
- Server Resource Usage Metrics
- Replication Servers (OUD) Metrics
- Replication Domains (OUD) Metrics
- Administration Connector General Information Metrics
- Administration Connector Read Operations Metrics
- Administration Connector Write Operations Metrics
- Administration Connector Extended Operations Metrics

C.1 Response Metrics

- Status
- Details

C.1.1 Status

Target Version
All versions

Evaluation and Collection Frequency
Every 1 minute

Upload Frequency
After every sample

Operator
Not equal

Default Critical Threshold
0

Alert Text
The OUD Replication Gateway is down.

C.1.2 Details

Target Version
All versions

Collection Frequency
Every 1 minute

C.2 General Information Metrics

- Full Version
- Vendor Name
- Current Time
- Start Time
- Instance Path
- Install Path
- Java Version
- Java Home
- Java Architecture

C.2.1 Full Version

Target Version
All versions

Collection Frequency
Every 24 hours

C.2.2 Vendor Name

Target Version
All versions

Collection Frequency
Every 24 hours

C.2.3 Current Time

Target Version
All versions

Collection Frequency
Every 24 hours

C.2.4 Start Time

Target Version
All versions

Collection Frequency
Every 24 hours

C.2.5 Instance Path

Target Version
All versions

Collection Frequency
Every 24 hours

C.2.6 Install Path

Target Version
All versions

Collection Frequency
Every 24 hours

C.2.7 Java Version

Target Version
All versions

Collection Frequency
Every 24 hours

C.2.8 Java Home

Target Version
All versions

Collection Frequency
Every 24 hours

C.2.9 Java Architecture

Target Version
All versions

Collection Frequency
Every 24 hours

C.3 Server Role Metrics

- Directory Server
- Proxy

- Distributor

- Load Balancer

- Replication Gateway

- Role

C.3.1 Directory Server

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Match

Default Critical Threshold
True

Alert Text
The target is a Replication Gateway. Please Select the oracle_oud_directory plugin to monitor your instance.

C.3.2 Proxy

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Match

Default Critical Threshold
True

Alert Text
The target is not a Replication Gateway. Please Select the oracle_oud_directory plugin to monitor your instance.

C.3.3 Distributor

Target Version
All versions

Collection Frequency
Every 24 hours

C.3.4 Load Balancer

Target Version
All versions

Collection Frequency
Every 24 hours

C.3.5 Replication Gateway

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Match

Default Critical Threshold
False

Alert Text
The target is not a Replication Gateway.

C.3.6 Role

Target Version
All versions

Collection Frequency
Every 24 hours

C.4 Replication Gateway Metrics

- Base DN
- Status
- Updates Sent to ODSEE Since Startup
- Updates Sent to ODSEE Per Second
- Updates Received from ODSEE Since Startup
- Updates Received from ODSEE Per Second
- Updates Sent to OUD Since Connection with RS Established
- Updates Sent to OUD Per Second
- Updates Received from OUD Since Connection with RS Established
- Updates Received from OUD Per Second
- Total Lost Connections

■ [Delta Lost Connections](#)

C.4.1 Base DN

Target Version
All versions

Collection Frequency
Every 5 minutes

C.4.2 Status

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Match

Alert Text
Status value crossed warning threshold or critical threshold.

C.4.3 Updates Sent to ODSEE Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.4.4 Updates Sent to ODSEE Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Updates Sent to ODSEE Per Second value crossed warning threshold or critical threshold.

C.4.5 Updates Received from ODSEE Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.4.6 Updates Received from ODSEE Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Updates Received from ODSEE Per Second value crossed warning threshold or critical threshold.

C.4.7 Updates Sent to OUD Since Connection with RS Established

Target Version
All versions

Collection Frequency
Every 5 minutes

C.4.8 Updates Sent to OUD Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Updates Sent to OUD Per Second value crossed warning threshold or critical threshold.

C.4.9 Updates Received from OUD Since Connection with RS Established

Target Version
All versions

Collection Frequency
Every 5 minutes

C.4.10 Updates Received from OUD Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Updates Received from OUD Per Second value crossed warning threshold or critical threshold.

C.4.11 Total Lost Connections

Target Version
All versions

Collection Frequency
Every 5 minutes

C.4.12 Delta Lost Connections

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delta Lost Connections value crossed warning threshold or critical threshold.

C.5 Replication Gateway (Total) Metrics

- Updates Sent to ODSEE Since Startup

- [Updates Sent to ODSEE Per Second](#)
- [Updates Received from ODSEE Since Startup](#)
- [Updates Received from ODSEE Per Second](#)
- [Updates Sent to OUD Since Connection with RS Established](#)
- [Updates Sent to OUD Per Second](#)
- [Updates Received from OUD Since Connection with RS Established](#)
- [Updates Received from OUD Per Second](#)
- [Total Lost Connections](#)
- [Delta Lost Connections](#)

C.5.1 Updates Sent to ODSEE Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.5.2 Updates Sent to ODSEE Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Updates Sent to ODSEE Per Second value crossed warning threshold or critical threshold.

C.5.3 Updates Received from ODSEE Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.5.4 Updates Received from ODSEE Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Updates Received from ODSEE Per Second value crossed warning threshold or critical threshold.

C.5.5 Updates Sent to OUD Since Connection with RS Established

Target Version
All versions

Collection Frequency
Every 5 minutes

C.5.6 Updates Sent to OUD Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Updates Sent to OUD Per Second value crossed warning threshold or critical threshold.

C.5.7 Updates Received from OUD Since Connection with RS Established

Target Version
All versions

Collection Frequency
Every 5 minutes

C.5.8 Updates Received from OUD Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Updates Received from OUD Per Second value crossed warning threshold or critical threshold.

C.5.9 Total Lost Connections

Target Version
All versions

Collection Frequency
Every 5 minutes

C.5.10 Delta Lost Connections

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delta Lost Connections value crossed warning threshold or critical threshold.

C.6 CPU Utilization (%)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
CPU Usage value crossed warning threshold or critical threshold.

C.7 Server Resource Usage Metrics

- Max Allowed Heap
- Used Memory Inside Heap
- Free Memory Inside Heap
- Heap Size
- Non-Heap Size
- Memory Code Cache Used
- Memory Perm Gen Bytes Used
- Memory Survivor Used

- Memory Eden Used
- Memory Old Gen Used
- Number of Scavenge Collector Processing
- Duration of the Last Scavenge Collector Processing
- Average Duration of the Last Scavenge Collector Processing
- Number of markSweep Collector Processing
- Duration of the last markSweep Collector Processing
- Average Duration of the last markSweep Collector Processing

C.7.1 Max Allowed Heap

Target Version
All versions

Collection Frequency
Every 5 minutes

C.7.2 Used Memory Inside Heap

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Used Memory in Heap value crossed warning threshold or critical threshold.

C.7.3 Free Memory Inside Heap

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Less than

Alert Text
Free Memory in Heap value crossed warning threshold or critical threshold.

C.7.4 Heap Size

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Heap Size value crossed warning threshold or critical threshold.

C.7.5 Non-Heap Size

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Non-Heap Size value crossed warning threshold or critical threshold.

C.7.6 Memory Code Cache Used

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Memory CodeCache Used value crossed warning threshold or critical threshold.

C.7.7 Memory Perm Gen Bytes Used

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Memory PermGen Used value crossed warning threshold or critical threshold.

C.7.8 Memory Survivor Used

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Memory Survivor Used value crossed warning threshold or critical threshold.

C.7.9 Memory Eden Used

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Memory Eden Used value crossed warning threshold or critical threshold.

C.7.10 Memory Old Gen Used

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Memory OldGen Used value crossed warning threshold or critical threshold.

C.7.11 Number of Scavenge Collector Processing

Target Version
All versions

Collection Frequency
Every 5 minutes

C.7.12 Duration of the Last Scavenge Collector Processing

Target Version
All versions

Collection Frequency
Every 5 minutes

C.7.13 Average Duration of the Last Scavenge Collector Processing

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Duration of the scavenge Collector Processing value crossed warning threshold or critical threshold.

C.7.14 Number of markSweep Collector Processing

Target Version
All versions

Collection Frequency
Every 5 minutes

C.7.15 Duration of the last markSweep Collector Processing

Target Version
All versions

Collection Frequency
Every 5 minutes

C.7.16 Average Duration of the last markSweep Collector Processing

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Duration of the markSweep Collector Processing value crossed warning threshold or critical threshold.

C.8 Replication Servers (OUD) Metrics

- Host Name
- Replication Port
- Base DN
- Administration Port
- Replication Group ID
- Age of Oldest Missing Change (sec)
- Missing Changes
- Generation ID

C.8.1 Host Name

Target Version
All versions

Collection Frequency
Every 5 minutes

C.8.2 Replication Port

Target Version
All versions

Collection Frequency
Every 5 minutes

C.8.3 Base DN

Target Version
All versions

Collection Frequency
Every 5 minutes

C.8.4 Administration Port

Target Version
All versions

Collection Frequency
Every 5 minutes

C.8.5 Replication Group ID

Target Version
All versions

Collection Frequency
Every 5 minutes

C.8.6 Age of Oldest Missing Change (sec)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Age of Oldest Missing Change (sec) value crossed warning threshold or critical
threshold.

C.8.7 Missing Changes

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Missing Changes value crossed warning threshold or critical threshold.

C.8.8 Generation ID

Target Version
All versions

Collection Frequency
Every 5 minutes

C.9 Replication Domains (OUD) Metrics

- Replication Domains (OUD) Metrics
- Administration Port
- Base DN
- Replication Group ID
- Status
- Entries
- Age of Oldest Missing Change (sec)
- Missing Changes
- Delay (sec)
- Generation ID
- Connected Replication Server
- Pending Updates
- Remote Pending Updates
- Resolved Modify Conflicts
- Naming Conflicts
- Resolved Naming Conflicts

- Percentage of Resolved Naming Conflicts
- Percentage of Resolved Naming Conflicts (Average)
- Sent Updates
- Sent Updates Per Second
- Received Updates
- Received Updates Per Second
- Replayed Updates
- Replayed Updates Per Second
- Successful Replayed Updates
- Percentage of Successful Replayed Updates
- Percentage of Successful Replayed Updates (Average)
- Untrusted Changes
- Untrusted Changes Per Second
- Total Lost Connections
- Delta Lost Connections
- Lost connections Per Second

C.9.1 Replication Domains (OUD) Metrics

Target Version
All versions

Collection Frequency
Every 5 minutes

C.9.2 Administration Port

Target Version
All versions

Collection Frequency
Every 5 minutes

C.9.3 Base DN

Target Version
All versions

Collection Frequency
Every 5 minutes

C.9.4 Replication Group ID

Target Version
All versions

Collection Frequency
Every 5 minutes

C.9.5 Status

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Match

Alert Text
Atatus value crossed warning threshold or critical threshold.

C.9.6 Entries

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text

Entries value crossed warning threshold or critical threshold.

C.9.7 Age of Oldest Missing Change (sec)

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency

After every sample

Operator

Greater than

Alert Text

Age of Oldest Missing Change (sec) value crossed warning threshold or critical threshold.

C.9.8 Missing Changes

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency

After every sample

Operator

Greater than

Alert Text

Missing Changes value crossed warning threshold or critical threshold.

C.9.9 Delay (sec)

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency

After every sample

Operator

Greater than

Alert Text

Delay value crossed warning threshold or critical threshold.

C.9.10 Generation ID

Target Version
All versions

Collection Frequency
Every 5 minutes

C.9.11 Connected Replication Server

Target Version
All versions

Collection Frequency
Every 5 minutes

C.9.12 Pending Updates

Target Version
All versions

Collection Frequency
Every 5 minutes

C.9.13 Remote Pending Updates

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Remote Pending Updates value crossed warning threshold or critical threshold.

C.9.14 Resolved Modify Conflicts

Target Version
All versions

Collection Frequency
Every 5 minutes

C.9.15 Naming Conflicts

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Naming Conflicts value crossed warning threshold or critical threshold.

C.9.16 Resolved Naming Conflicts

Target Version
All versions

Collection Frequency
Every 5 minutes

C.9.17 Percentage of Resolved Naming Conflicts

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Less than

Alert Text
Percentage of Resolved Naming Conflicts value crossed warning threshold or critical threshold.

C.9.18 Percentage of Resolved Naming Conflicts (Average)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Less than

Alert Text
Percentage of Resolved Naming Conflicts (Average) value crossed warning threshold or critical threshold.

C.9.19 Sent Updates

Target Version
All versions

Collection Frequency
Every 5 minutes

C.9.20 Sent Updates Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Sent Updates Per Second value crossed warning threshold or critical threshold.

C.9.21 Received Updates

Target Version
All versions

Collection Frequency
Every 5 minutes

C.9.22 Received Updates Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Received Updates Per Second value crossed warning threshold or critical threshold.

C.9.23 Replayed Updates

Target Version
All versions

Collection Frequency

Every 5 minutes

C.9.24 Replayed Updates Per Second

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency

After every sample

Operator

Greater than

Alert Text

Replayed Updates Per Second value crossed warning threshold or critical threshold.

C.9.25 Successful Replayed Updates

Target Version

All versions

Collection Frequency

Every 5 minutes

C.9.26 Percentage of Successful Replayed Updates

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency

After every sample

Operator

Less than

Alert Text

Percentage of Successful Replayed Updates value crossed warning threshold or critical threshold.

C.9.27 Percentage of Successful Replayed Updates (Average)

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency
After every sample

Operator
Less than

Alert Text
Percentage of Successful Replayed Updates (Average) value crossed warning threshold or critical threshold.

C.9.28 Untrusted Changes

Target Version
All versions

Collection Frequency
Every 5 minutes

C.9.29 Untrusted Changes Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Untrusted Changes Per Second value crossed warning threshold or critical threshold.

C.9.30 Total Lost Connections

Target Version
All versions

Collection Frequency
Every 5 minutes

C.9.31 Delta Lost Connections

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delta Lost Connections value crossed warning threshold or critical threshold.

C.9.32 Lost connections Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Lost connections Per Second value crossed warning threshold or critical threshold.

C.10 Administration Connector General Information Metrics

- Administration Connector Port
- Operations Initiated Since Startup
- Operations Initiated Per Second Since Startup
- Operations Initiated Per Second
- Operations Completed Since Startup
- Operations Completed Per Second Since Startup
- Operations Completed Per Second
- Elapsed Time for all Operations Since Startup
- Average Elapsed Time Per Operation Since Startup
- Average Elapsed Time Per Operation
- Current Connections
- Total Connections

- Total Connections Per Second
- Delta Total Connections Per Second
- Total Returned Search Result Entries Since Startup
- Returned Search Result Entries Per Second Since Startup
- Returned Search Result Entries Per Second
- Total MB Read
- KB Read Per Second Since Startup
- KB Read Per Second
- Total MB Written
- KB Written Per Second Since Startup
- KB Written Per Second

C.10.1 Administration Connector Port

Target Version
All versions

Collection Frequency
Every 5 minutes

C.10.2 Operations Initiated Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.10.3 Operations Initiated Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Operations Initiated Per Second Since Startup value crossed warning threshold or critical threshold.

C.10.4 Operations Initiated Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Operations Initiated Per Second value crossed warning threshold or critical threshold.

C.10.5 Operations Completed Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.10.6 Operations Completed Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Operations Completed Per Second Since Startup value crossed warning threshold or critical threshold.

C.10.7 Operations Completed Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Operations Completed Per Second value crossed warning threshold or critical threshold.

C.10.8 Elapsed Time for all Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.10.9 Average Elapsed Time Per Operation Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation Since Startup value crossed warning threshold or critical threshold.

C.10.10 Average Elapsed Time Per Operation

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation value crossed warning threshold or critical threshold.

C.10.11 Current Connections

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Current Connections value crossed warning threshold or critical threshold.

C.10.12 Total Connections

Target Version
All versions

Collection Frequency
Every 5 minutes

C.10.13 Total Connections Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Total Connections Per Second value crossed warning threshold or critical threshold.

C.10.14 Delta Total Connections Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delta Total Connections Per Second value crossed warning threshold or critical threshold.

C.10.15 Total Returned Search Result Entries Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.10.16 Returned Search Result Entries Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Returned Search Result Entries Per Second Since Startup value crossed warning threshold or critical threshold.

C.10.17 Returned Search Result Entries Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Returned Search Result Entries Per Second value crossed warning threshold or critical threshold.

C.10.18 Total MB Read

Target Version
All versions

Collection Frequency
Every 5 minutes

C.10.19 KB Read Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
KB Read Per Second Since Startup value crossed warning threshold or critical threshold.

C.10.20 KB Read Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
KB Read Per Second value crossed warning threshold or critical threshold.

C.10.21 Total MB Written

Target Version
All versions

Collection Frequency
Every 5 minutes

C.10.22 KB Written Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
KB Written Per Second Since Startup value crossed warning threshold or critical threshold.

C.10.23 KB Written Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
KB Written Per Second value crossed warning threshold or critical threshold.

C.11 Administration Connector Read Operations Metrics

- Administration Connector Port
- Read Operations Since Startup
- Read Operations Per Second Since Startup
- Read Operations Per Second
- Total Elapsed Time for all Read Operations Since Startup (ms)
- Average Elapsed Time Per Operation Since Startup (ms)
- Average Elapsed Time Per Operation (ms)
- Bind Operations Since Startup
- Bind Operations Per Second Since Startup
- Bind Operations Per Second
- Search Operations Since Startup
- Search Operations Per Second Since Startup
- Search Operations Per Second
- Unbind Operations Since Startup
- Unbind Operations Per Second Since Startup
- Unbind Operations Per Second
- Abandon Operations Since Startup
- Abandon Operations Per Second Since Startup
- Abandon Operations Per Second
- Compare Operations Since Startup
- Compare Operations Per Second Since Startup
- Compare Operations Per Second
- Elapsed Time for Bind Operations Since Startup
- Average Elapsed Time Per Bind Since Startup
- Average Elapsed Time Per Bind
- Elapsed Time for Search Operations Since Startup
- Average Elapsed Time Per Search Since Startup
- Average Elapsed Time Per Search
- Elapsed Time for Unbind Operations Since Startup
- Average Elapsed Time Per Unbind Since Startup
- Average Elapsed Time Per Unbind
- Elapsed Time for Abandon Operations Since Startup
- Average Elapsed Time Per Abandon Since Startup
- Average Elapsed Time Per Abandon
- Elapsed Time for Compare Operations Since Startup
- Average Elapsed Time Per Compare Since Startup
- Average Elapsed Time Per Compare

C.11.1 Administration Connector Port

Target Version
All versions

Collection Frequency
Every 5 minutes

C.11.2 Read Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.11.3 Read Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Read Operations Per Second Since Startup value crossed warning threshold or critical threshold.

C.11.4 Read Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Read Operations Per Second value crossed warning threshold or critical threshold.

C.11.5 Total Elapsed Time for all Read Operations Since Startup (ms)

Target Version
All versions

Collection Frequency
Every 5 minutes

C.11.6 Average Elapsed Time Per Operation Since Startup (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text

Average Elapsed Time Per Operation Since Startup value crossed warning threshold or critical threshold.

C.11.7 Average Elapsed Time Per Operation (ms)

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency

After every sample

Operator

Greater than

Alert Text

Average Elapsed Time Per Operation value crossed warning threshold or critical threshold.

C.11.8 Bind Operations Since Startup

Target Version

All versions

Collection Frequency

Every 5 minutes

C.11.9 Bind Operations Per Second Since Startup

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency

After every sample

Operator

Greater than

Alert Text

Bind Operations Per Second Since Startup value crossed warning threshold or critical threshold.

C.11.10 Bind Operations Per Second

Target Version

All versions

Evaluation and Collection Frequency

Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Bind Operations Per Second value crossed warning threshold or critical threshold.

C.11.11 Search Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.11.12 Search Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Search Operations Per Second Since Startup value crossed warning threshold or critical threshold.

C.11.13 Search Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Search Operations Per Second value crossed warning threshold or critical threshold.

C.11.14 Unbind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.11.15 Unbind Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Unbind Operations Per Second Since Startup value crossed warning threshold or critical threshold.

C.11.16 Unbind Operations Per Second

Target Version
All versions

Collection Frequency
Every 5 minutes

C.11.17 Abandon Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.11.18 Abandon Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Abandon Operations Per Second Since Startup value crossed warning threshold or critical threshold.

C.11.19 Abandon Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Abandon Operations Per Second value crossed warning threshold or critical threshold.

C.11.20 Compare Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.11.21 Compare Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Compare Operations Per Second Since Startup value crossed warning threshold or critical threshold.

C.11.22 Compare Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Compare Operations Per Second value crossed warning threshold or critical threshold.

C.11.23 Elapsed Time for Bind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.11.24 Average Elapsed Time Per Bind Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Bind Since Startup value crossed warning threshold or critical threshold.

C.11.25 Average Elapsed Time Per Bind

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Bind value crossed warning threshold or critical threshold.

C.11.26 Elapsed Time for Search Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.11.27 Average Elapsed Time Per Search Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Search Since Startup value crossed warning threshold or critical threshold.

C.11.28 Average Elapsed Time Per Search

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Search value crossed warning threshold or critical threshold.

C.11.29 Elapsed Time for Unbind Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.11.30 Average Elapsed Time Per Unbind Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Unbind Since Startup value crossed warning threshold or critical threshold.

C.11.31 Average Elapsed Time Per Unbind

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Unbind value crossed warning threshold or critical threshold.

C.11.32 Elapsed Time for Abandon Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.11.33 Average Elapsed Time Per Abandon Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Abandon Since Startup value crossed warning threshold or critical threshold.

C.11.34 Average Elapsed Time Per Abandon

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Abandon value crossed warning threshold or critical threshold.

C.11.35 Elapsed Time for Compare Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.11.36 Average Elapsed Time Per Compare Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Compare Since Startup value crossed warning threshold or critical threshold.

C.11.37 Average Elapsed Time Per Compare

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Compare value crossed warning threshold or critical threshold.

C.12 Administration Connector Write Operations Metrics

- Administration Connector Port
- Write Operations Since Startup
- Write Operations Per Second
- Write Operations Per Second Since Startup
- Total Elapsed Time for all Write Operations Since Startup (ms)
- Average Elapsed Time Per Operation Since Startup (ms)
- Average Elapsed Time Per Operation (ms)
- Modify Operations Since Startup
- Modify Operations Per Second Since Startup
- Modify Operations Per Second
- Add Operations Since Startup
- Add Operations Per Second Since Startup
- Add Operations Per Second
- Mod DN Operations Since Startup
- Mod DN Operations Per Second Since Startup
- Mod DN Operations Per Second

- Delete Operations Since Startup
- Delete Operations Per Second Since Startup
- Delete Operations Per Second
- Elapsed Time for Modify Operations Since Startup
- Average Elapsed Time Per Modify Since Startup
- Average Elapsed Time Per Modify
- Elapsed Time for Add Operations Since Startup
- Average Elapsed Time Per Add Since Startup
- Average Elapsed Time Per Add
- Elapsed Time for Mod DN Operations Since Startup
- Average Elapsed Time Per Mod DN Since Startup
- Average Elapsed Time Per Mod DN
- Elapsed Time for Delete Operations Since Startup
- Average Elapsed Time Per Delete Since Startup
- Average Elapsed Time Per Delete

C.12.1 Administration Connector Port

Target Version
All versions

Collection Frequency
Every 5 minutes

C.12.2 Write Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.12.3 Write Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Write Operations Per Second Since Startup value crossed warning threshold or critical threshold.

C.12.4 Write Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Write Operations Per Second value crossed warning threshold or critical threshold.

C.12.5 Total Elapsed Time for all Write Operations Since Startup (ms)

Target Version
All versions

Collection Frequency
Every 5 minutes

C.12.6 Average Elapsed Time Per Operation Since Startup (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation Since Startup value crossed warning threshold or critical threshold.

C.12.7 Average Elapsed Time Per Operation (ms)

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Operation value crossed warning threshold or critical threshold.

C.12.8 Modify Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.12.9 Modify Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Modify Operations Per Second Since Startup value crossed warning threshold or critical threshold.

C.12.10 Modify Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Modify Operations Per Second value crossed warning threshold or critical threshold.

C.12.11 Add Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.12.12 Add Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Add Operations Per Second Since Startup value crossed warning threshold or critical threshold.

C.12.13 Add Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Add Operations Per Second value crossed warning threshold or critical threshold.

C.12.14 Mod DN Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.12.15 Mod DN Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Mod DN Operations Per Second Since Startup value crossed warning threshold or critical threshold.

C.12.16 Mod DN Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Mod DN Operations Per Second value crossed warning threshold or critical threshold.

C.12.17 Delete Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.12.18 Delete Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delete Operations Per Second Since Startup value crossed warning threshold or critical threshold.

C.12.19 Delete Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Delete Operations Per Second value crossed warning threshold or critical threshold.

C.12.20 Elapsed Time for Modify Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.12.21 Average Elapsed Time Per Modify Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Modify Since Startup value crossed warning threshold or critical threshold.

C.12.22 Average Elapsed Time Per Modify

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Modify value crossed warning threshold or critical threshold.

C.12.23 Elapsed Time for Add Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.12.24 Average Elapsed Time Per Add Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Add Since Startup value crossed warning threshold or critical threshold.

C.12.25 Average Elapsed Time Per Add

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Add value crossed warning threshold or critical threshold.

C.12.26 Elapsed Time for Mod DN Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.12.27 Average Elapsed Time Per Mod DN Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Mod DN Since Startup value crossed warning threshold or critical threshold.

C.12.28 Average Elapsed Time Per Mod DN

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Mod DN value crossed warning threshold or critical threshold.

C.12.29 Elapsed Time for Delete Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.12.30 Average Elapsed Time Per Delete Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Delete Since Startup value crossed warning threshold or critical threshold.

C.12.31 Average Elapsed Time Per Delete

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Delete value crossed warning threshold or critical threshold.

C.13 Administration Connector Extended Operations Metrics

- Administration Connector Port
- Extended Operations Since Startup
- Extended Operations Per Second Since Startup
- Extended Operations Per Second
- Elapsed Time for Extended Operations Since Startup
- Average Elapsed Time Per Extended Since Startup

■ [Average Elapsed Time Per Extended](#)

C.13.1 Administration Connector Port

Target Version
All versions

Collection Frequency
Every 5 minutes

C.13.2 Extended Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.13.3 Extended Operations Per Second Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Extended Operations Per Second Since Startup value crossed warning threshold or critical threshold.

C.13.4 Extended Operations Per Second

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Extended Operations Per Second value crossed warning threshold or critical threshold.

C.13.5 Elapsed Time for Extended Operations Since Startup

Target Version
All versions

Collection Frequency
Every 5 minutes

C.13.6 Average Elapsed Time Per Extended Since Startup

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Extended Since Startup value crossed warning threshold or critical threshold.

C.13.7 Average Elapsed Time Per Extended

Target Version
All versions

Evaluation and Collection Frequency
Every 5 minutes

Upload Frequency
After every sample

Operator
Greater than

Alert Text
Average Elapsed Time Per Extended value crossed warning threshold or critical threshold.