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Preface

This manual is a compilation of the Oracle System Infrastructure-related target metrics provided in Oracle Enterprise Manager.

Audience

This document is intended for Oracle Enterprise Manager users interested in Oracle System Infrastructure target metrics.

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 Resources

For more information, see the following documents:

- *Oracle Enterprise Manager Basic Installation Guide*
- *Oracle Enterprise Manager Advanced Installation and Configuration Guide*
- *Oracle Enterprise Manager Introduction*
- *Oracle Enterprise Manager Administrator's Guide*

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.

How to Use This Manual

The Oracle Enterprise Manager Systems Infrastructure Plug-in Metric Reference Manual (hereafter referred to as the Systems Infrastructure Plug-in Metric Reference Manual) lists all the Oracle Systems Infrastructure target metrics that Enterprise Manager monitors.

This preface describes:

- Structure of This Manual
- Background Information on Metrics, Thresholds, and Alerts
- Troubleshooting Metrics

Structure of This Manual

This manual contains a chapter for each target for which there are metrics.

The metrics in each chapter are in alphabetical order according to category.

Metric Information

The information for each metric comprises a description, summary of the metric's "vital statistics", data source (if available), and user action. The following list provides greater detail:

- Description

  Explanation following the metric name. This text defines the metric and, when available, provides additional information pertinent to the metric.

- Metric Summary

  Explains in table format the target version, collection frequency, default warning threshold, default critical threshold, and alert text for the metric.

Examples of Metric Summary Tables

This section provides examples of Metric Summary tables you will see in this guide.

When default thresholds are not defined for a metric, only the target version and collection frequency are available.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Definitions of Columns in Metric Summary Tables

As previously mentioned, the Metric Summary table is part of the overall metric information. The following table provides descriptions of columns in the Metric Summary table.

Column Header	Column Definition
Target Version	Version of the target, for example, 9.0.2.x and 10.1.0.x. The x at the end of a version (for example, 9.0.2.x) represents the subsequent patchsets associated with that release.
Collection Frequency	The rate at which the Management Agent collects data. The collection frequency for a metric comes from the Enterprise Manager default collection file for that target type.
Default Warning Threshold	Value that indicates whether a warning alert should be initiated. If the evaluation of the warning threshold value returns a result of TRUE for the specified number of consecutive occurrences defined for the metric, an alert triggers at the warning severity level.
Default Critical Threshold	Value that indicates whether a critical alert should be initiated. If the evaluation of the critical threshold value returns a result of TRUE for the specified number of consecutive occurrences defined for the metric, an alert triggers at the critical severity level.
Alert Text	Message indicating why the alert was generated. Words that display between percent signs (%) denote variables. For example, `Disk Utilization for %keyValue% is %value%%` could translate to `Disk Utilization for d0 is 80%`.

Background Information on Metrics, Thresholds, and Alerts

An event is a significant occurrence on a managed target that typically indicates something has occurred outside normal operating conditions, such as a performance threshold violation, an unapproved change in application configuration files, or job failure. An event can also be raised to signal successful operations or a job successfully completed.

Existing Enterprise Manager customers may be familiar with metric alerts and metric collection errors. The metric alerts are a type of event. A metric alert event is generated when an alert occurs for a metric on a specific target (Example: CPU utilization for a host target) or a metric on a target and object combination (Example: Space usage on a specific tablespace of a database target.)

Thresholds are boundary values against which monitored metric values are compared. For example, for each disk device associated with the Disk Utilization (%) metric, you can define a different warning and critical threshold. Some of the thresholds are predefined by Oracle, others are not.

When a threshold is reached, an alert is generated. This alert is an indicator signifying that a particular condition has been encountered and is triggered when one of the following conditions is true:

- A threshold is reached.
- An alert has been cleared.
- The availability of a monitored service changes. For example, the availability of an application server changes from up to down.
- A specific condition occurs. For example, an alert is triggered whenever an error message is written to a database alert log file.

Alerts are detected through a polling-based mechanism by checking for the monitored condition from a separate process at regular, predefined intervals.

> **See Also:**
>
> See the *Oracle Enterprise Manager Administrator's* manual for additional information about metrics, thresholds, and alerts.

Editing

Out of the box, Enterprise Manager comes with thresholds for critical metrics. Warning and critical thresholds are used to generate an alert, letting you know of impending problems so that you can address them in a timely manner.

To better suit the monitoring needs of your organization, you can edit the thresholds provided by Enterprise Manager and define new thresholds. When defining thresholds, the key is to choose acceptable values to avoid unnecessary alerts, while still being notified of issues in a timely manner.

You can establish thresholds that will provide pertinent information in a timely manner by defining metric baselines that reflect how your system runs for a normal period of time.

The metrics listed on the Edit Thresholds page are either default metrics provided by Oracle or metrics whose thresholds you can change.

Specifying Multiple Thresholds

The Specifying Multiple Thresholds functionality allows you to define various subsets of data that can have different thresholds. By specifying multiple thresholds, you can refine the data used to trigger alerts, which are one of the key benefits of using Enterprise Manager.The key in specifying multiple thresholds is to determine how the comparison relates to the metric threshold as a whole. What benefit will be realized by defining a more stringent or lax threshold for that particular device, mount point, and so on?For example, using the Average Disk I/O Service Time metric, you can define warning and critical thresholds to be applied to all disks (sd0 and sd1), or you can define different warning and critical thresholds for a specific disk (sd0). This allows you to adjust the thresholds for sd0 to be more stringent or lax for that particular disk.

Accessing Metrics Using the Enterprise Manager Console

To access metrics in the Enterprise Manager Console, use the All Metrics page associated with a particular target by doing the following:

1. From the Enterprise Manager Console, select the target.
2. On the target's home page, click **All Metrics** in the Related Links section.
3. On the All Metrics page, choose the metric of interest.

Troubleshooting Metrics

In the unlikely situation that a metric does not report a correct value, you must determine if the problem is related to the:

- Metric providing the wrong values or failing with an error, or

- If the problem is *after* the Management Agent in the execution flow of the metric, that is, the metric value is correct but, for some reason, the data is not reaching the Oracle Management Service.

To aid you in this determination, Oracle provides the Metric Browser; a troubleshooting tool that can be used with Enterprise Manager to see the raw data being collected by the Management Agent.

Accessing the Metric Browser

When enabled, the Metric Browser can be accessed using a web browser, for example, Netscape, Firefox, and Internet Explorer, using a URL of the form:

`http|https://agent_hostname:agent_port/emd/browser/main`

for example

`http://myServer.myDomain:3872/emd/browser/main`

> **Note:**
>
> You can determine the protocol (http or https), the host name, and the Management Agent port that should be used from the output of the following command (run on the Management Agent host):
>
> `agent_home/bin/emctl status agent`

The Management Agent URL, listed in the output to that command, needs only to have *browser* placed between *emd* and *main*.

By default, the Metric Browser is disabled. When the Metric Browser is disabled, you receive the following error:

```
HTTP Error 403 - Forbidden if the metric browser has not been enabled.
```

How to Enable the Metric Browser and the Management Agent Browser for the Oracle Management Agent

Follow these steps to enable the Metric Browser.

1. The Metric Browser is enabled by setting the `enableMetricBrowser` property in the Management Agent's emd.properties file. The location of that file depends on the type of Management Agent you are working with:
   - For the Enterprise Manager (central|standalone) Management Agent, the file is:

     `AGENT_HOME/sysman/config/emd.properties`
   - For a clustered (RAC) Management Agent install, the file is:

     `AGENT_HOME/hostname/sysman/config/emd.properties`
   - For the Database Control Management Agent, the file is:

     `DATABASE_HOME/hostname_SID/sysman/config/emd.properties`
   - For Application Server Control Management Agent, the file is:

     `AS_HOME/sysman/config/emd.properties`

2. Make a backup copy of the emd.properties file.
3. Edit the file and locate the line that reads:

```
#To enable the metric browser, uncomment the following line
#This is a reloadable parameter
#
#enableMetricBrowser=true
```

4. Uncomment the line: #enableMetricBrowser=true, so that it reads:

```
enableMetricBrowser=true
```

5. Reload the Management Agent Configuration using the command:

```
AGENT_HOME/bin/emctl reload agent
```

6. After reloading the Management Agent, the Metric Browser will be enabled and therefore accessible using a browser.

Running the Metric Collection Outside the Management Agent

Running the metric collection outside the Management Agent is specific to each metric and requires a firsthand knowledge of each specific metric. Each metric has its own method of collecting its data and some metrics cannot be run *standalone* because they are calculated from other metrics.

An example of running the metric collection outside the Management Agent is the command line.

1

Systems Infrastructure Server

This chapter provides information about the Systems Infrastructure Server metrics. For each metric, it provides the following information:

- Description
- Metric table

The metric table can include some or all of the following: target version, default collection frequency, default warning threshold, default critical threshold, and alert text.

Access Point Response

The metric in this category provides information about the status of the access point.

Status

This metric provides the status of the access point.

There is no collection defined for this metric because the Access Point Response metrics are invoked by the platform to compute access point availability.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	0	Access point is down

Component Faults

The metrics in this category provide information about component faults.

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Name

This metric provides the name of the component that is the source of the trap.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Part Number

This metric provides the part number of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Serial Number

This metric provides the serial number of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component subsystem

This metric provides the component subsystem name.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem Description

This metric provides the description of the open problem.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem Probability

This metric provides the probability of the open problem.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem Reference Document

This metric provides the URL to an Oracle Support reference document.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem Status

This metric provides the status of the problem associated with the component.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 24 Hours	Not Defined	1	Fault found in %ComponentName% @ %ProblemOccurrenceTime%. Description: %OpenProblemDescription%, Probability: %OpenProblemProbability%, PartNumber: %ComponentPartNumber%, SerialNumber: %ComponentSerialNumber%

Open Problem UUID

This metric provides the universally unique identifier (UUID) of the open problem.

Target Version	Collection Frequency
All versions	Every 24 Hours

Problem Occurrence Time

This metric provides the time that the problem occurred.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component State

The metrics in this category provide information about the component state.

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component State

This metric provides the state of the component.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 24 Hours	Not Defined	REMOVED	Fault found in component %ComponentId%

Error Detail

The metric provides information about errors.

Target Version	Collection Frequency
All versions	Every 24 Hours

Fan Usage

The metrics in this category provide information about fan usage.

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every Hour

Real Percentage

This metric provides the real percentage used.

Target Version	Collection Frequency
All versions	Every Hour

ILOM SNMP Component Status Trap

The metrics in this category provide information about the ILOM SNMP component status trap.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Disable Reason

This metric provides a reason as to why the component is disabled.

Fault Status

This metric provides the status of the fault in the component.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	CRITICAL	%ComponentName% with Chassis %ChassisId% disabled. Reason :%DisableReason%

Product Name

This metric provides the product name.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Component Trap

The metrics in this category provide information about the ILOM SNMP component trap.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Component fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Drive Controller Trap

The metrics in this category provide information about ILOM SNMP drive controller traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Probable Cause

This metric provides the probable cause for the drive controller error.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	DriveController fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%. ProbableCause=%DriveControllerProbableCause%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Electrical Current Trap

The metrics in this category provide information about the ILOM SNMP electrical current traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Product Name

This metric provides the product name.

Sensor Value

This metric provides the threshold sensor's reading at the time the trap was generated.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Threshold Type

This metric identifies the threshold type that the electrical current sensor is reporting on.

Threshold Value

This metric provides the threshold setting that has been crossed.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	ElectricalCurrent Threshold fault in %ComponentName%. Threshold of %ThresholdType% with %ThresholdValue%. SensorValue is %SensorValue%.

ILOM SNMP Fan Speed Trap

The metrics in this category provide information about the ILOM SNMP fan speed trap.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Product Name

This metric provides the product name.

Sensor Value

This metric provides the threshold sensor's reading at the time the trap was generated.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Threshold Type

This metric identifies the threshold type that the sensor is reporting on.

Threshold Value

This metric provides the threshold setting that has been crossed.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	FanSpeed Threshold fault in %ComponentName%. Threshold of %ThresholdType% with %ThresholdValue%. SensorValue is %SensorValue% .

ILOM SNMP Fan Trap

The metrics in this category provide information about ILOM SNMP fan traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Fan fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Fault Diagnosed Trap

The metrics in this category provide information about the ILOM SNMP fault diagnosed trap.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

EventTime

This metric provides timestamp for when the fault occurred.

FaultDescription

This metric provides the description of the fault.

FaultMessageID

This metric provides a message ID, which you can use to get additional information about the problem from My Oracle Support.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	FaultDiagnosed in %Hostname% with UUID %FaultUUID%..

Fault UUID

This metric provides the UUID that was assigned to this fault.

Hostname

This metric provides the host name.

ka_url

This metric provides a URL to a knowledge article relating to the issue.

ProductManufacturer

This metric provides the name of the product manufacturer.

ProductName

This metric provides the product name.

ProductSn

This metric provides the product serial number.

SuspectCnt

This metric provides the number of suspected faults diagnosed as the cause of the reported hardware errors.

SuspectFruChassisId

This metric provides the chassis serial number of a Field Replaceable Unit (FRU) suspected of causing a fault.

Suspect FRU Fault Certainty

This metric provides the probability that the suspected FRU is the source of the problem.

SuspectFruFaultClass

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

SuspectFruLocation

This metric provides the location of the suspected FRU.

SuspectFruManufacturer

This metric provides the name of the manufacturer of the FRU suspected of causing a fault.

SuspectFruName

This metric provides the name of the FRU suspected of causing a fault.

SuspectFruPn

This metric provides the part number of the FRU suspected of causing a fault.

SuspectFruRevision

This metric provides the revision level of the FRU suspected of causing a fault.

SuspectFruSn

This metric provides the serial number of the FRU suspected of causing a fault.

Suspect FRU Status

This metric provides the status of the FRU suspected of causing a fault.

SystemIdentifier

This metric provides the system ID.

ILOM SNMP FRU Trap

The metrics in this category provide information about the ILOM SNMP Field Replacement Unit (FRU) traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Chassis Id

This metric provides the chassis serial number.

Fault Status

This metric provide the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	CRITICAL	FRU %ComponentName% with Chassis %ChassisId% has been removed.

Product Name

This metric provides the product name.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP HardDrive Trap

The metrics in this category provide information about the ILOM SNMP hard drive traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Hard Drive Fault

This metric provides information about the hard drive fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	HardDrive fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Hard Drive Status

This metric provides the status of the hard drive.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	HardDrive status update for %ComponentName%.

Product Name

This metric provides the product name.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP HAState Change Trap

The metrics in this category provide information about the ILOM SNMP HAState change traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Chassis Id

This metric provides the chassis serial number.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	HA state change. OldState: %OldHAState% , NewState:%NewHAState%

Product Name

This metric provides the product name.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP IO Trap

The metrics in this category provide information about the ILOM SNMP IO traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	IO fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Memory Trap

The metrics in this category provide information about the ILOM SNMP memory traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Memory fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Power Consumption Trap

The metrics in this category provide information about the ILOM SNMP power consumption traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Product Name

This metric provides the product name.

Sensor Value

This metric provides the threshold sensor's reading at the time the trap was generated.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Threshold Type

This metric identifies the threshold type that the sensor is reporting on.

Threshold Value

This metric provides the threshold setting that has been crossed.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	PowerConsumption Threshold fault in %ComponentName%. Threshold of %ThresholdType% with %ThresholdValue%. SensorValue is %SensorValue% .

ILOM SNMP Power Supply Trap

The metrics in this category provide information about the ILOM SNMP power supply traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Power Supply fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP PreOSError Trap

The metrics in this category provide information about the ILOM SNMP PreOSError traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Chassis Id

This metric provides the chassis serial number.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	PreOS Error for %ComponentName%

Product Name

This metric provides the product name.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Processor Trap

The metrics in this category provide information about the ILOM SNMP processor traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Processor fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Security Intrusion Trap

The metrics in this category provide information about the ILOM SNMP security intrusion traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Chassis Id

This metric provides the chassis serial number.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	sunHwTrapSecurityIntrusion for %ComponentName%

Product Name

This metric provides the product name.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Sensor Trap

The metrics in this category provide information about the ILOM SNMP sensor traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Product Name

This metric provides the product name.

Sensor Value

This metric provides the threshold sensor's reading at the time the trap was generated.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Threshold Type

This metric identifies the threshold type that the sensor is reporting on.

Threshold Value

This metric provides the threshold setting that has been crossed.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	sunHwTrapSecurityIntrusion for %ComponentName%

ILOM SNMP SlotOrConnector Trap

The metrics in this category provide information about the ILOM SNMP SlotOrConnector traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the message ID of the fault.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	sunHwTrapSecurityIntrusion for %ComponentName%

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Storage Volume Trap

The metrics in this category provide information about the ILOM SNMP storage volume traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the message ID of the fault.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Storage Volume fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%. ProbableCause=%StorageVolumeProbableCause%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name.

Probable Cause

This metric provides the probable cause for the storage volume error

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Temperature Trap

The metrics in this category provide information about the ILOM SNMP temperature traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Product Name

This metric provides the product name

Sensor Value

This metric provides the threshold sensor's reading at the time the trap was generated.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Threshold Type

This metric identifies the threshold type that the sensor is reporting on.

Threshold Value

This metric provides the threshold setting that has been crossed.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Temperature Threshold fault in %ComponentName%. Threshold of %ThresholdType% with %ThresholdValue%. SensorValue is %SensorValue% .

ILOM SNMP Test Trap

The metrics in this category provide information about the ILOM SNMP temperature traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Chassis Id

This metric provides the chassis serial number.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Test Message

This metric provides a test message.

Test Fault Status

This metric provides the status of the test fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Test fault in %ProductName%

ILOM SNMP Voltage Trap

The metrics in this category provide information about the ILOM SNMP voltage traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Product Name

This metric provides the product name

Sensor Value

This metric provides the threshold sensor's reading at the time the trap was generated.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Threshold Type

This metric identifies the threshold type that the sensor is reporting on.

Threshold Value

This metric provides the threshold setting that has been crossed.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Voltage Threshold fault in %ComponentName%. Threshold of %ThresholdType% with %ThresholdValue%. SensorValue is %SensorValue% .

Inlet/Outlet Temperature Info for Server

The metrics in this category provide information about the server temperature.

Exhaust Temperature in Celsius

The metric provides the exhaust temperature in degrees Celsius.

Target Version	Collection Frequency
All versions	Every Hour

Inlet Temperature in Celsius

The metric provides the inlet temperature in degrees Celsius.

Target Version	Collection Frequency
All versions	Every Hour

System Temperature in Celsius

The metric provides the system temperature in degrees Celsius.

Target Version	Collection Frequency
All versions	Every Hour

Network Datalinks Performance

The metrics in this category provide information about the Network Datalinks performance.

Datalink Name

This metric provides the datalink name.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Broadcast Octets

This metric provides the number of inbound broadcast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Broadcasts

This metric provides the number of inbound broadcasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Dropped Octets

This metric provides the number of inbound dropped octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicast Octets

This metric provides the number of inbound multicast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicasts

This metric provides the number of inbound multicasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Broadcast Octets

This metric provides the number of outbound broadcast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Broadcasts

This metric provides the number of outbound broadcasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Dropped Octets

This metric provides the number of outbound dropped octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicast Octets

This metric provides the number of outbound multicast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicasts

This metric provides the number of outbound multicasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the number of outbound octets rate.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Status

This metric provides the status of the datalink.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Interfaces Bandwidth

The metrics in this category provide information about the network interfaces bandwidth.

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions Percentage

This metric provides the total network collisions (in percentage) of the network interface since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Input/Output Average

This metric provides the average input/output operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Percentage Activity Average

This metric provides the average percentage of activity over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Bandwidth (KB/sec)

This metric provides the amount of bandwidth used since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Input Average

This metric provides the average input operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Input Errors Percentage

This metric provide the percentage of input errors on the interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Input/Output Errors Percentage

This metric provides the percentage of input/output errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Output Errors Percentage

This metric provides the percentage of output errors on the interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Interfaces Performance

The metrics in this category provide information about the network interfaces performance.

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Frame Errors

This metric provides the number of frame errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Overruns

This metric provides the number of overruns since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Carrier Errors

This metric provides the number of outbound carrier errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Overruns

This metric provides the number of outbound overruns since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

State

This metric provides the state of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Status

This metric provides the status of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Ports InfiniBand Error Statistics

The metrics in this category provide information about the network ports InfiniBand error statistics.

Port ID

This metric provides the port ID.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Execution Buffer Overrun Errors

This metric provides the number of buffer overrun errors since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Link Downed

This metric provides the number of link-down errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Link Integrity Errors

This metric provides the number of link integrity errors, that is, the number of errors on the local link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Link Recovers

This metric provides the number of times the link error recovery process was completed successfully since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Received Constraint Errors

This metric provides the number of received constraint errors received since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Received Errors

This metric provides the number of received errors since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Received Remote Physical Errors Delta

This metric provides the number of physical errors

Target Version	Collection Frequency
All versions	Every 15 Minutes

Received Switch Relay Errors

This metric provides the number of switch relay errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Symbol Errors

This metric provides the number of symbol errors on the port since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total errors

This metric provides the total number of errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Virtual Lane 15 Packets Dropped

This metric provides the number of incoming VL15 packets dropped due to resource limitations on the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Sent Constraint Errors

This metric provides the number of sent constraint errors since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Sent Discards

This metric provides the number sent discards that occurred since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Ports InfiniBand Traffic Statistics

This metrics in this category provide information about the network ports InfiniBand traffic statistics.

Port Id

This provides the port ID.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Received Multicast Packets

This metric provides the number of multicast packets received by the port since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Sent Multicast Packets

This metric provides the number of multicast packets sent to the port since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Received Bytes

This metric provides the number of bytes received.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Received Packets

This metric provides the number of packets received since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Received Unicast Packets

This metric provides the number of unicast packets received since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Sent Unicast Packets

This metric provides the number of unicast packets sent since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Sent Bytes

This metric provides the number of bytes sent since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Sent Packets

This metric provides the number of packets sent since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Ports InfiniBand Performance

This metrics in this category provide information about the network ports InfiniBand performance.

Port ID

This metric provides the port ID.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Active Speed

This metric provides the active speed of the link since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Active Width

This metric provides the width of the link since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Cable State

This metric provides the state of the cable connection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Enabled Speed

This metric provides the speed of the node.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Enabled Width

This metric provides the width of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Gateway Port Link Mode

This metric provides the gateway port link mode.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Port Disabled

This metric indicates whether the port is disabled.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Port Polling

This metric indicates whether the port is in a polling state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Link Degraded

This metric indicates whether the link is degraded.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Link State

This metric provides the state of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Local Port LID

This metric provides the Local Identifier (LID) of the local port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Physical Link State

This metric provides the physical link state. The physical link state is 0 if the port is in a polling or disabled state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Port State

This metric provides the state of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Remote Port LID

This metric provides the LID of the remote port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Supported Speed

The metric provides the speed supported by the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Supported Width

This metric provides the width supported by the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Ports Performance

This metrics in this category provide information about the network ports performance.

Admin State

This metric provides the information about the administrative state of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Discarded Packets

This metric provides the information about the number of discarded packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicast Packets

This metric provides the number of inbound multicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Unicast Packets

This metric provides the number of inbound unicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Unknown Protocol

This metric provides the number of inbound packets with an unknown protocol.

Target Version	Collection Frequency
All versions	Every 15 Minutes

MTU

This metric provides the Maximum Transmission Unit (MTU) of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Duplex Mode

This metric provides the specific duplex mode of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Operational Status

This metric provides the operational status of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Discards

This metric provides the number of outbound discards.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicast Packets

This metric provides the number of outbound multicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Unicast Packets

This metric provides the number of outbound unicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Partition Keys

This metric provides the defined partition keys.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Speed

This metric provides the speed of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Speed Units

This metric provides the measurement units for the speed.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total Octets Rate

This metric provides the rate of total octet bits.

Target Version	Collection Frequency
All versions	Every 15 Minutes

vLAN IDs

This metric provides the vLAN ID.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Power Usage Summary

The metrics in this category provide information about power usage.

Type

This metric provides information about the power type.

Target Version	Collection Frequency
All versions	Every Hour

Current Power

This metric provides information about the current power.

Target Version	Collection Frequency
All versions	Every Hour

Power One Minute Average

This metric provides the average power consumption per minute.

Target Version	Collection Frequency
All versions	Every Hour

Response

This metric category provides information about the status of the Systems Infrastructure Server target.

Status

This metric provides the status of the Systems Infrastructure Server target.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Minute	Not Defined	0	%target% is Down.

Service Processor Status

The metrics in this category provide information about the status of the service processor.

Date Time

This metric provides the data and time associated with the service processor.

Target Version	Collection Frequency
All versions	Every Hour

Uptime

This metric provides the current uptime of the service processor.

Target Version	Collection Frequency
All versions	Every Hour

Sensor Status

The metrics in this category provide information about the status of the sensor.

Sensor Identifier

This metric provides the ID of the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Component Identifier

This metric provides the ID of the hardware component.

Target Version	Collection Frequency
All versions	Every Hour

Read Value

This metric provides the read value of the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Status

This metric provides the status of the sensor.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Hour	Not Defined	critical	Fault found in sensor %SensorId%

Value

This metric provides the value from the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Switch Aggregated System Status

The metrics in this category provide information about the status of the switch aggregated system.

Cable State

This metric provides the state of the cable connection

Target Version	Collection Frequency
All versions	Every Hour

Cable State Change

This metric provides the change in cable connectivity.

Target Version	Collection Frequency
All versions	Every Hour

Cooling Redundancy

This metric provides the cooling redundancy state.

Target Version	Collection Frequency
All versions	Every Hour

Cooling State

This metric provides the overall cooling state.

Target Version	Collection Frequency
All versions	Every Hour

Health Status

This metric provides the health status.

Target Version	Collection Frequency
All versions	Every Hour

InfiniBand State

This metric provides the InfiniBand state.

Target Version	Collection Frequency
All versions	Every Hour

Locator Light

This metric provides the locator light.

Target Version	Collection Frequency
All versions	Every Hour

Power Redundancy

This metric provides the power redundancy state.

Target Version	Collection Frequency
All versions	Every Hour

Power State

This metric provides the overall power state.

Target Version	Collection Frequency
All versions	Every Hour

Temperature State

This metric provides the overall temperature state.

Target Version	Collection Frequency
All versions	Every Hour

Voltage State

This metric provides the voltage state.

Target Version	Collection Frequency
All versions	Every Hour

2

Systems Infrastructure Server - LDOM Access Point

This chapter provides information about the Systems Infrastructure Server - LDOM Access Point metrics. For each metric, it provides the following information:

- Description
- Metric table

The metric table can include some or all of the following: target version, default collection frequency, default warning threshold, default critical threshold, and alert text.

Fan Usage

The metrics in this category provide information about fan usage.

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All Versions	Every Hour

Real Percentage

This metric provides the real percentage used.

Target Version	Collection Frequency
All Versions	Every Hour

ILOM SNMP Component Status Trap

The metrics in this category provide information about the ILOM SNMP component status trap.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Disable Reason

This metric provides a reason as to why the component is disabled.

Fault Status

This metric provides the status of the fault in the component.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	CRITICAL	%ComponentName% with Chassis %ChassisId% disabled. Reason :%DisableReason%

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Component Trap

The metrics in this category provide information about the ILOM SNMP component trap.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	CRITICAL	%ComponentName% with Chassis %ChassisId% disabled. Reason :%DisableReason%

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Drive Controller Trap

The metrics in this category provide information about ILOM SNMP drive controller traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Probable Cause

This metric provides the probable cause for the drive controller error.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	CRITICAL	DriveController fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%. ProbableCause=%DriveControllerProbableCause%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Electrical Current Trap

The metrics in this category provide information about the ILOM SNMP electrical current traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Product Name

This metric provides the product name

Sensor Value

This metric provides the threshold sensor's reading at the time the trap was generated.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Threshold Type

This metric identifies the threshold type that the sensor is reporting on.

Threshold Value

This metric provides the threshold setting that has been crossed.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	ElectricalCurrent Threshold fault in %ComponentName%. Threshold of %ThresholdType% with %ThresholdValue%. SensorValue is %SensorValue%.

ILOM SNMP Fan Trap

The metrics in this category provide information about ILOM SNMP fan traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Fan fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Fan Speed Trap

The metrics in this category provide information about the ILOM SNMP fan speed trap.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Product Name

This metric provides the product name

Sensor Value

This metric provides the threshold sensor's reading at the time the trap was generated.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Threshold Type

This metric identifies the threshold type that the sensor is reporting on.

Threshold Value

This metric provides the threshold setting that has been crossed.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	FanSpeed Threshold fault in %ComponentName%. Threshold of %ThresholdType% with %ThresholdValue%. SensorValue is %SensorValue% .

ILOM SNMP Fault Diagnosed Trap

The metrics in this category provide information about the ILOM SNMP fault diagnosed trap.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

DiagEntity

This metric describes the entity that diagnosed the fault.

EventTime

This metric provides the time stamp for when the fault occurred.

FaultDescription

This metric provides a textual description of the fault.

FaultMessageID

This metric provides a message ID, which you can use to get additional information about the problem from My Oracle Support.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	FaultDiagnosed in %Hostname% with UUID %FaultUUID%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Hostname

This metric provides the host name.

ka_url

This metric provides a URL to a knowledge article relating to the issue.

ProductManufacturer

This metric provides the name of the product manufacturer.

ProductName

This metric provides the product name.

ProductSn

This metric provides the product serial number.

SuspectCnt

This metric provides the number of suspected faults diagnosed as the cause of the reported hardware errors.

SuspectFruChassisId

This metric provides the chassis serial number of a Field Replaceable Unit (FRU) suspected of causing a fault.

Suspect FRU Fault Certainty

This metric provides the probability (percentage) that the suspected FRU is the source of the problem.

SuspectFruFaultClass

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

SuspectFruLocation

This metric provides the location of the suspected FRU.

SuspectFruManufacturer

This metric provides the name of the manufacturer of the FRU suspected of causing a fault.

SuspectFruName

This metric provides the name of the FRU suspected of causing a fault.

SuspectFruPn

This metric provides the part number of the FRU suspected of causing a fault.

SuspectFruRevision

This metric provides the revision level of the FRU suspected of causing a fault.

SuspectFruSn

This metric provides the serial number of the FRU suspected of causing a fault.

Suspect FRU Status

This metric provides the status of the FRU suspected of causing a fault.

SystemIdentifier

This metric provides the system ID.

ILOM SNMP FRU Trap

The metrics in this category provide information about the ILOM SNMP Field Replacement Unit (FRU) traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Chassis Id

This metric provides the chassis serial number.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	CRITICAL	FRU %ComponentName% with Chassis %ChassisId% has been removed.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP HAState Change Trap

The metrics in this category provide information about the ILOM SNMP HAState change traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Chassis Id

This metric provides the chassis serial number.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	CRITICAL	FRU %ComponentName% with Chassis %ChassisId% has been removed.

NewHAState

This metric provides the new value of the high availability state after a high availability state change has occurred.

OldHAState

This metric provides the old value of the high availability state after a high availability state change has occurred.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP HardDrive Trap

The metrics in this category provide information about the ILOM SNMP hard drive traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Hard Drive Fault

This metric describes the hard drive fault.

Hard Drive Status

This metric provides the status of the hard drive of the component.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	HardDrive status update for %ComponentName%.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP IO Trap

The metrics in this category provide information about the ILOM SNMP IO traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	IO fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Memory Trap

The metrics in this category provide information about the ILOM SNMP memory traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Memory fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Power Consumption Trap

The metrics in this category provide information about the ILOM SNMP power consumption traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Product Name

This metric provides the product name

Sensor Value

This metric provides the threshold sensor's reading at the time the trap was generated.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Threshold Type

This metric identifies the threshold type that the sensor is reporting on.

Threshold Value

This metric provides the threshold setting that has been crossed.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	PowerConsumption Threshold fault in %ComponentName%. Threshold of %ThresholdType% with %ThresholdValue%. SensorValue is %SensorValue% .

ILOM SNMP Power Supply Trap

The metrics in this category provide information about the ILOM SNMP power supply traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	PowerConsumption Threshold fault in %ComponentName%. Threshold of %ThresholdType% with %ThresholdValue%. SensorValue is %SensorValue% .

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP PreOSError Trap

The metrics in this category provide information about the ILOM SNMP PreOSError traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Chassis Id

This metric provides the chassis serial number.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	PowerConsumption Threshold fault in %ComponentName%. Threshold of %ThresholdType% with %ThresholdValue%. SensorValue is %SensorValue% .

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Processor Trap

The metrics in this category provide information about the ILOM SNMP processor traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Processor fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Security Intrusion Trap

The metrics in this category provide information about the ILOM SNMP security intrusion traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Chassis Id

This metric provides the chassis serial number.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	sunHwTrapSecurityIntrusion for %ComponentName%

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Sensor Trap

The metrics in this category provide information about the ILOM SNMP sensor traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Product Name

This metric provides the product name

Sensor Value

This metric provides the threshold sensor's reading at the time the trap was generated.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Threshold Type

This metric identifies the threshold type that the sensor is reporting on.

Threshold Value

This metric provides the threshold setting that has been crossed.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	sunHwTrapSecurityIntrusion for %ComponentName%

ILOM SNMP SlotOrConnector Trap

The metrics in this category provide information about the ILOM SNMP SlotOrConnector traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	SlotOrConnector fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Storage Volume Trap

The metrics in this category provide information about the ILOM SNMP storage volume traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Storage Volume fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%. ProbableCause=%StorageVolumeProbableCause%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name

Probable Cause

This metric provides the probable cause for the storage volume error.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Temperature Trap

The metrics in this category provide information about the ILOM SNMP temperature traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Product Name

This metric provides the product name

Sensor Value

This metric provides the threshold sensor's reading at the time the trap was generated.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Threshold Type

This metric identifies the threshold type that the sensor is reporting on.

Threshold Value

This metric provides the threshold setting that has been crossed.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Temperature Threshold fault in %ComponentName%. Threshold of %ThresholdType% with %ThresholdValue%. SensorValue is %SensorValue%.

ILOM SNMP Test Trap

The metrics in this category provide information about the ILOM SNMP temperature traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Chassis Id

This metric provides the chassis serial number.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Test Message

This metric provides a test message.

Test Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Test fault in %ProductName%

ILOM SNMP Voltage Trap

The metrics in this category provide information about the ILOM SNMP voltage traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Product Name

This metric provides the product name

Sensor Value

This metric provides the threshold sensor's reading at the time the trap was generated.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Threshold Type

This metric identifies the threshold type that the sensor is reporting on.

Threshold Value

This metric provides the threshold setting that has been crossed.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Voltage Threshold fault in %ComponentName%. Threshold of %ThresholdType% with %ThresholdValue%. SensorValue is %SensorValue% .

Network Datalinks Performance

The metrics in this category provide information about the Network Datalinks performance.

Datalink Name

This metric provides the datalink name.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Inbound Broadcast Octets

This metric provides the number of inbound broadcast octets.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Inbound Broadcasts

This metric provides the number of inbound broadcasts.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Inbound Dropped Octets

This metric provides the number of inbound dropped octets.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Inbound Multicast Octets

This metric provides the number of inbound multicast octets.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Inbound Multicasts

This metric provides the number of inbound multicasts.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Outbound Broadcast Octets

This metric provides the number of outbound broadcast octets.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Outbound Broadcasts

This metric provides the number of outbound broadcasts.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Outbound Dropped Octets

This metric provides the number of outbound dropped octets.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Outbound Multicast Octets

This metric provides the number of outbound multicast octets.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Outbound Multicasts

This metric provides the number of outbound multicasts.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

State

This metric provides the link state.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Status

This metric provides the status of the datalink.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Network Interfaces Bandwidth

The metrics in this category provide information about the network interfaces bandwidth.

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Collisions Percentage

This metric provides the total network collisions (in percentage) of the network interface since the last collection.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

10 minute Input/Output Average

This metric provides the average input/output operations over 10 minutes.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

10 minute Percentage Activity Average

This metric provides the average percentage of activity over 10 minutes.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Bandwidth (KB/sec)

This metric provides the amount of bandwidth used since the last collection.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

10 minute Input Average

This metric provides the average input operations over 10 minutes.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Input Errors Percentage

This metric provide the percentage of input errors on the interface.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Input/Output Errors Percentage

This metric provides the percentage of input/output errors.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

10 minute Output Average

This metric provides the average output operations over 10 minutes.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Output Errors Percentage

This metric provides the percentage of output errors on the interface.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Network Interfaces Performance

The metrics in this category provide information about the network interfaces performance.

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Frame Errors

This metric provides the number of frame errors.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Inbound Overruns

This metric provides the number of overruns since the last collection.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Outbound Carrier Errors

This metric provides the number of outbound carrier errors.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Outbound Overruns

This metric provides the number of outbound overruns since the last collection.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

State

This metric provides the link state.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Status

This metric provides the status of the datalink.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Network Ports InfiniBand Error Statistics

The metrics in this category provide information about the network ports InfiniBand error statistics.

Port ID

This metric provides the port ID.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Execution Buffer Overrun Errors

This metric provides the number of buffer overrun errors since the last collection.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Link Downed

This metric provides the number of link-down errors.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Link Integrity Errors

This metric provides the number of link integrity errors, that is, the number of errors on the local link.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Link Recovers

This metric provides the number of times the link error recovery process was completed successfully since the last collection.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Received Constraint Errors

This metric provides the number of received constraint errors received since the last collection.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Received Errors

This metric provides the number of received errors since the last collection.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Received Remote Physical Errors Delta

This metric provides the number of physical errors

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Received Switch Relay Errors

This metric provides the number of switch relay errors.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Symbol Errors

This metric provides the number of symbol errors on the port since the last collection.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Total errors

This metric provides the total number of errors.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Virtual Lane 15 Packets Dropped

This metric provides the number of incoming VL15 packets dropped due to resource limitations on the port.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Sent Constraint Errors

This metric provides the number of sent constraint errors since the last collection.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Sent Discards

This metric provides the number sent discards that occurred since the last collection.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Network Ports InfiniBand Traffic Statistics

This metrics in this category provide information about the network ports InfiniBand traffic statistics.

Port Id

This metric provides the port ID.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Received Multicast Packets

This metric provides the number of multicast packets received by the port since the last collection.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Sent Multicast Packets

This metric provides the number of multicast packets sent to the port since the last collection.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Received Bytes

This metric provides the number of bytes received.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Received Packets

This metric provides the number of packets received since the last collection.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Received Unicast Packets

This metric provides the number of unicast packets received since the last collection.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Sent Unicast Packets

This metric provides the number of unicast packets sent since the last collection.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Sent Bytes

This metric provides the number of bytes sent since the last collection.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Sent Packets

This metric provides the number of packets sent since the last collection.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Network Ports InfiniBand Performance

This metrics in this category provide information about the network ports InfiniBand performance.

Port ID

This metric provides the port ID.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Active Speed

This metric provides the active speed of the link since the last collection.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Active Width

This metric provides the width of the link since the last collection.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Cable State

This metric provides the link state.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Enabled Speed

This metric provides the speed of the node.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Enabled Width

This metric provides the width of the port.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Gateway Port Link Mode

This metric provides the gateway port link mode.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Port Disabled

This metric indicates whether the port is disabled.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Port Polling

This metric indicates whether the port is in a polling state.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Link Degraded

This metric indicates whether the link is degraded.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Link State

This metric provides the link state.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Local Port LID

This metric provides the Local Identifier (LID) of the local port.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Physical Link State

This metric provides the physical link state. The physical link state is 0 if the port is in a polling or disabled state.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Port State

This metric provides the state of the port.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Remote Port LID

This metric provides the LID of the remote port.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Supported Speed

The metric provides the speed supported by the link.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Supported Width

This metric provides the width supported by the link.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Network Ports Performance

This metrics in this category provide information about the network ports performance.

Admin State

This metric provides the information about the administrative state of the link.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Discarded Packets

This metric provides the information about the number of discarded packets.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Inbound Multicast Packets

This metric provides the number of inbound multicast packets.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Inbound Unicast Packets

This metric provides the number of inbound unicast packets.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Inbound Unknown Protocol

This metric provides the number of inbound packets with an unknown protocol.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

MTU

This metric provides the Maximum Transmission Unit (MTU) of the link.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Duplex Mode

This metric provides the specific duplex mode of the port.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Operational Status

This metric provides the operational status of the port.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Outbound Discards

This metric provides the number of outbound discards.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Outbound Multicast Packets

This metric provides the number of outbound multicast packets.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Outbound Unicast Packets

This metric provides the number of outbound unicast packets.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Partition Keys

This metric provides the defined partition keys.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Speed

This metric provides the speed of the link.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Speed Units

This metric provides the measurement units for the speed.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Total Octets Rate

This metric provides the rate of total octet bits.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

vLAN IDs

This metric provides the vLAN ID.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Power Usage Summary

The metrics in this category provide information about power usage.

Type

This metric provides information about the power type.

Target Version	Collection Frequency
All Versions	Every Hour

Current Power

This metric provides information about the current power.

Target Version	Collection Frequency
All Versions	Every Hour

Power One Minute Average

This metric provides the average power consumption per minute.

Target Version	Collection Frequency
All Versions	Every Hour

Response

This metric category provides information about the status of the Systems Infrastructure Server - LDOM Access Point target.

Status

This metric provides the status of the Systems Infrastructure Server - LDOM Access Point target.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Minute	Not Defined	0	%target% is Down.

Service Processor Status

The metrics in this category provide information about the status of the service processor.

Date Time

This metric provides the data and time associated with the service processor.

Target Version	Collection Frequency
All Versions	Every Hour

Uptime

This metric provides the current uptime of the service processor.

Target Version	Collection Frequency
All Versions	Every Hour

Sensor Status

The metrics in this category provide information about the status of the sensor.

Sensor Identifier

This metric provides the ID of the sensor.

Target Version	Collection Frequency
All Versions	Every Hour

Component Identifier

This metric provides the ID of the hardware component.

Target Version	Collection Frequency
All Versions	Every Hour

Read Value

This metric provides the read value of the sensor.

Target Version	Collection Frequency
All Versions	Every Hour

Status

This metric provides the status of the sensor.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Hour	Not Defined	critical	Fault found in sensor %SensorId%

Value

This metric provides the value from the sensor.

Target Version	Collection Frequency
All Versions	Every Hour

Switch Aggregated System Status

The metrics in this category provide information about the status of the switch aggregated system.

Cable State

This metric provides the state of the cable connection

Target Version	Collection Frequency
All Versions	Every Hour

Cable State Change

This metric provides the change in cable connectivity.

Target Version	Collection Frequency
All Versions	Every Hour

Cooling Redundancy

This metric provides the cooling redundancy state.

Target Version	Collection Frequency
All Versions	Every Hour

Cooling State

This metric provides the overall cooling state.

Target Version	Collection Frequency
All Versions	Every Hour

Health Status

This metric provides the health status.

Target Version	Collection Frequency
All Versions	Every Hour

InfiniBand State

This metric provides the InfiniBand state.

Target Version	Collection Frequency
All Versions	Every Hour

Locator Light

This metric provides the locator light.

Target Version	Collection Frequency
All Versions	Every Hour

Power Redundancy

This metric provides the power redundancy state.

Target Version	Collection Frequency
All Versions	Every Hour

Power State

This metric provides the overall power state.

Target Version	Collection Frequency
All Versions	Every Hour

Temperature State

This metric provides the overall temperature state.

Target Version	Collection Frequency
All Versions	Every Hour

Voltage State

This metric provides the voltage state.

Target Version	Collection Frequency
All Versions	Every Hour

Inlet/Outlet Temperature Info for Server

The metrics in this category provide information about the server temperature.

Exhaust Temperature in Celsius

The metric provides the exhaust temperature in degrees Celsius.

Target Version	Collection Frequency
All Versions	Every Hour

Inlet Temperature in Celsius

The metric provides the inlet temperature in degrees Celsius.

Target Version	Collection Frequency
All Versions	Every Hour

System Temperature in Celsius

The metric provides the system temperature in degrees Celsius.

Target Version	Collection Frequency
All Versions	Every Hour

Component Faults

The metrics in this category provide information about component faults.

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All Versions	Every 72 Hours

Component Name

This metric provides the name of the component that is the source of the trap.

Target Version	Collection Frequency
All Versions	Every 72 Hours

Component Part Number

This metric provides the part number of the component.

Target Version	Collection Frequency
All Versions	Every 72 Hours

Component Serial Number

This metric provides the serial number of the component.

Target Version	Collection Frequency
All Versions	Every 72 Hours

Component subsystem

This metric provides the component subsystem name.

Target Version	Collection Frequency
All Versions	Every 72 Hours

Open Problem Description

This metric provides the description of the open problem.

Target Version	Collection Frequency
All Versions	Every 72 Hours

Open Problem Probability

This metric provides the probability of the open problem.

Target Version	Collection Frequency
All Versions	Every 72 Hours

Open Problem Reference Document

This metric provides the URL to an Oracle Support reference document.

Target Version	Collection Frequency
All Versions	Every 72 Hours

Open Problem Status

This metric provides the status of the problem associated with the component.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 72 Hours	Not Defined	1	Fault found in %ComponentName% @ %ProblemOccurrenceTime%. Description: %OpenProblemDescription%, Probability: %OpenProblemProbability%, PartNumber: %ComponentPartNumber%, SerialNumber: %ComponentSerialNumber%

Open Problem UUID

This metric provides the universally unique identifier (UUID) of the open problem.

Target Version	Collection Frequency
All Versions	Every 72 Hours

Problem Occurrence Time

This metric provides the time that the problem occurred.

Target Version	Collection Frequency
All Versions	Every 72 Hours

3

Systems Infrastructure Server - ILOM Access Point

This chapter provides information about the Systems Infrastructure Server - ILOM Access Point metrics. For each metric, it provides the following information:

- Description
- Metric table

The metric table can include some or all of the following: target version, default collection frequency, default warning threshold, default critical threshold, and alert text.

Inlet/Outlet Temperature Info for Server

The metrics in this category provide information about the server temperature.

System Temperature in Celsius

The metric provides the system temperature in degrees Celsius.

Target Version	Collection Frequency
All versions	Every Hour

Inlet Temperature in Celsius

The metric provides the inlet temperature in degrees Celsius.

Target Version	Collection Frequency
All versions	Every Hour

Exhaust Temperature in Celsius

The metric provides the exhaust temperature in degrees Celsius.

Target Version	Collection Frequency
All versions	Every Hour

Switch Aggregated System Status

The metrics in this category provide information about the status of the switch aggregated system.

Cable State

This metric provides the state of the cable connection.

Target Version	Collection Frequency
All versions	Every Hour

Cable State Change

This metric provides the change in cable connectivity.

Target Version	Collection Frequency
All versions	Every Hour

Cooling Redundancy

This metric provides the cooling redundancy state.

Target Version	Collection Frequency
All versions	Every Hour

Cooling State

This metric provides the overall cooling state.

Target Version	Collection Frequency
All versions	Every Hour

Health Status

This metric provides the health status.

Target Version	Collection Frequency
All versions	Every Hour

InfiniBand State

This metric provides the InfiniBand state.

Target Version	Collection Frequency
All versions	Every Hour

Locator Light

This metric provides the locator light.

Target Version	Collection Frequency
All versions	Every Hour

Power Redundancy

This metric provides the power redundancy state.

Target Version	Collection Frequency
All versions	Every Hour

Power State

This metric provides the overall power state.

Target Version	Collection Frequency
All versions	Every Hour

Temperature State

This metric provides the overall temperature state.

Target Version	Collection Frequency
All versions	Every Hour

Voltage State

This metric provides the voltage state.

Target Version	Collection Frequency
All versions	Every Hour

Sensor Status

The metrics in this category provide information about the status of the sensor.

Value

This metric provides the value from the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Status

This metric provides the status of the sensor.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Hour	Not Defined	critical	Fault found in sensor %SensorId%

Read Value

This metric provides the read value of the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Component Identifier

This metric provides the ID of the hardware component.

Target Version	Collection Frequency
All versions	Every Hour

Sensor Identifier

This metric provides the ID of the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Service Processor Status

The metrics in this category provide information about the status of the service processor.

Uptime

This metric provides the current uptime of the service processor.

Target Version	Collection Frequency
All versions	Every Hour

Date Time

This metric provides the data and time associated with the service processor.

Target Version	Collection Frequency
All versions	Every Hour

Response

This metric category provides information about the status of the Systems Infrastructure Server - ILOM Access Point target.

Status

This metric provides the status of the Systems Infrastructure Server - ILOM Access Point target.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Minute	Not Defined	0	%target% is Down.

Power Usage Summary

The metrics in this category provide information about power usage.

Power One Minute Average

This metric provides the average power consumption per minute.

Target Version	Collection Frequency
All versions	Every Hour

Current Power

This metric provides information about the current power.

Target Version	Collection Frequency
All versions	Every Hour

Type

This metric provides information about the power type.

Target Version	Collection Frequency
All versions	Every Hour

Network Ports Performance

This metrics in this category provide information about the network ports performance.

vLAN IDs

This metric provides the vLAN ID.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total Octets Rate

This metric provides the rate of total octet bits.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Speed Units

This metric provides the measurement units for the speed.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Speed

This metric provides the speed of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Partition Keys

This metric provides the defined partition keys.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Unicast Packets

This metric provides the number of outbound unicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicast Packets

This metric provides the number of outbound multicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Discards

This metric provides the number of outbound discards.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Operational Status

This metric provides the operational status of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Duplex Mode

This metric provides the specific duplex mode of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

MTU

This metric provides the Maximum Transmission Unit (MTU) of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Unknown Protocol

This metric provides the number of inbound packets with an unknown protocol.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Unicast Packets

This metric provides the number of inbound unicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicast Packets

This metric provides the number of inbound multicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Discarded Packets

This metric provides the information about the number of discarded packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Admin State

This metric provides the information about the administrative state of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Ports InfiniBand Performance

This metrics in this category provide information about the network ports InfiniBand performance.

Supported Width

This metric provides the width supported by the link.

Supported Speed

The metric provides the speed supported by the link.

Remote Port LID

This metric provides the LID of the remote port.

Port State

This metric provides the state of the port.

Physical Link State

This metric provides the physical link state. The physical link state is 0 if the port is in a polling or disabled state.

Local Port LID

This metric provides the Local Identifier (LID) of the local port.

Link State

This metric provides the state of the link.

Link Degraded

This metric indicates whether the link is degraded.

Port Polling

This metric indicates whether the port is in a polling state.

Port Disabled

This metric indicates whether the port is disabled.

Gateway Port Link Mode

This metric provides the gateway port link mode.

Enabled Width

This metric provides the width of the port.

Enabled Speed

This metric provides the speed of the node.

Cable State

This metric provides the state of the cable connection.

Active Width

This metric provides the width of the link since the last collection.

Active Speed

This metric provides the active speed of the link since the last collection.

Port ID

This metric provides the port ID.

Network Ports InfiniBand Traffic Statistics

This metrics in this category provide information about the network ports InfiniBand traffic statistics.

Port Id

This metric provides the port ID.

Received Multicast Packets

This metric provides the number of multicast packets received by the port since the last collection.

Sent Multicast Packets

This metric provides the number of multicast packets sent to the port since the last collection.

Received Bytes

This metric provides the number of bytes received.

Received Packets

This metric provides the number of packets received since the last collection.

Received Unicast Packets

This metric provides the number of unicast packets received since the last collection.

Sent Unicast Packets

This metric provides the number of unicast packets sent since the last collection.

Sent Bytes

This metric provides the number of bytes sent since the last collection.

Sent Packets

This metric provides the number of packets sent since the last collection.

Network Ports InfiniBand Error Statistics

The metrics in this category provide information about the network ports InfiniBand error statistics.

Port ID

This metric provides the port ID.

Link Downed

This metric provides the number of link-down errors.

Link Integrity Errors

This metric provides the number of link integrity errors, that is, the number of errors on the local link.

Link Recovers

This metric provides the number of times the link error recovery process was completed successfully since the last collection.

Received Constraint Errors

This metric provides the number of received constraint errors received since the last collection.

Received Errors

This metric provides the number of received errors since the last collection.

Received Remote Physical Errors Delta

This metric provides the number of physical errors

Received Switch Relay Errors

This metric provides the number of switch relay errors.

Symbol Errors

This metric provides the number of symbol errors on the port since the last collection.

Total errors

This metric provides the total number of errors.

Virtual Lane 15 Packets Dropped

This metric provides the number of incoming VL15 packets dropped due to resource limitations on the port.

Sent Constraint Errors

This metric provides the number of sent constraint errors since the last collection.

Sent Discards

This metric provides the number sent discards that occurred since the last collection.

Network Interfaces Performance

The metrics in this category provide information about the network interfaces performance.

Status

This metric provides the status of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Overruns

This metric provides the number of outbound overruns since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Carrier Errors

This metric provides the number of outbound carrier errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Overruns

This metric provides the number of overruns since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Frame Errors

This metric provides the number of frame errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Interfaces Bandwidth

The metrics in this category provide information about the network interfaces bandwidth.

Output Errors Percentage

This metric provides the percentage of output errors on the interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Output Average

This metric provides the average input operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Input/Output Errors Percentage

This metric provides the percentage of input/output errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Input Errors Percentage

This metric provide the percentage of input errors on the interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Input Average

This metric provides the average input operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Bandwidth (KB/sec)

This metric provides the amount of bandwidth used since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Percentage Activity Average

This metric provides the average percentage of activity over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Input/Output Average

This metric provides the average input/output operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions Percentage

This metric provides the total network collisions (in percentage) of the network interface since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Datalinks Performance

The metrics in this category provide information about the Network Datalinks performance.

Status

This metric provides the status of the datalink.

Target Version	Collection Frequency
All versions	Every 15 Minutes

State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicasts

This metric provides the number of outbound multicasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicast Octets

This metric provides the number of outbound multicast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Dropped Octets

This metric provides the number of outbound dropped octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Broadcasts

This metric provides the number of outbound broadcasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Broadcast Octets

This metric provides the number of outbound broadcast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicasts

This metric provides the number of inbound multicasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicast Octets

This metric provides the number of inbound multicast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Dropped Octets

This metric provides the number of inbound dropped octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Broadcasts

This metric provides the number of inbound broadcasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Broadcast Octets

This metric provides the number of inbound broadcast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Datalink Name

This metric provides the datalink name.

Target Version	Collection Frequency
All versions	Every 15 Minutes

ILOM SNMP Voltage Trap

The metrics in this category provide information about the ILOM SNMP voltage traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Threshold Value

This metric provides the threshold setting that has been crossed.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Voltage Threshold fault in %ComponentName%. Threshold of %ThresholdType% with %ThresholdValue%. SensorValue is %SensorValue% .

Threshold Type

This metric identifies the threshold type that the sensor is reporting on.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Sensor Value

This metric provides the threshold sensor's reading at the time the trap was generated.

Product Name

This metric provides the product name

Chassis Id

This metric provides the chassis serial number.

Additional Info

This metric provides additional information about the component.

Component Name

This metric provides the name of the component that is the source of the trap.

Test Fault Status

This metric provides the status of the fault.

Test Message

This metric provides a test message.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Product Name

This metric provides the product name

Chassis Id

This metric provides the chassis serial number.

Threshold Value

This metric provides the threshold setting that has been crossed.

Threshold Type

This metric identifies the threshold type that the sensor is reporting on.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Sensor Value

This metric provides the threshold sensor's reading at the time the trap was generated.

Product Name

This metric provides the product name

Chassis Id

This metric provides the chassis serial number.

Additional Info

This metric provides additional information about the component.

Component Name

This metric provides the name of the component that is the source of the trap.

ILOM SNMP Test Trap

The metrics in this category provide information about the ILOM SNMP temperature traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Chassis Id

This metric provides the chassis serial number.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Product Name

This metric provides the product name

Test Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Test fault in %ProductName%

Test Message

This metric provides a test message.

ILOM SNMP Storage Volume Trap

The metrics in this category provide information about the ILOM SNMP storage volume traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Storage Volume fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%. ProbableCause=%StorageVolumeProbableCause%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name

Probable Cause

This metric provides the probable cause for storage volume error.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Temperature Trap

The metrics in this category provide information about the ILOM SNMP temperature traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Product Name

This metric provides the product name

Sensor Value

This metric provides the threshold sensor's reading at the time the trap was generated.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Threshold Type

This metric identifies the threshold type that the sensor is reporting on.

Threshold Value

This metric provides the threshold setting that has been crossed.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Temperature Threshold fault in %ComponentName%. Threshold of %ThresholdType% with %ThresholdValue%. SensorValue is %SensorValue% .

ILOM SNMP SlotOrConnector Trap

The metrics in this category provide information about the ILOM SNMP SlotOrConnector traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Product Name

This metric provides the product name

Fault UUID

This metric provides the UUID that was assigned to this fault.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	SlotOrConnector fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Fault Message ID

This metric provides the fault message ID.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Chassis Id

This metric provides the chassis serial number.

Additional Info

This metric provides additional information about the component.

Component Name

This metric provides the name of the component that is the source of the trap.

ILOM SNMP Sensor Trap

The metrics in this category provide information about the ILOM SNMP sensor traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Threshold Value

This metric provides the threshold setting that has been crossed.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Sensor Threshold fault in %ComponentName%. Threshold of %ThresholdType% with %ThresholdValue%. SensorValue is %SensorValue% .

Threshold Type

This metric identifies the threshold type that the sensor is reporting on.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Sensor Value

This metric provides the threshold sensor's reading at the time the trap was generated.

Product Name

This metric provides the product name

Chassis Id

This metric provides the chassis serial number.

Additional Info

This metric provides additional information about the component.

Component Name

This metric provides the name of the component that is the source of the trap.

ILOM SNMP Security Intrusion Trap

The metrics in this category provide information about the ILOM SNMP security intrusion traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Product Name

This metric provides the product name

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	sunHwTrapSecurityIntrusion for %ComponentName%

Chassis Id

This metric provides the chassis serial number.

Component Name

This metric provides the name of the component that is the source of the trap.

ILOM SNMP Processor Trap

The metrics in this category provide information about the ILOM SNMP processor traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Product Name

This metric provides the product name

Fault UUID

This metric provides the UUID that was assigned to this fault.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Processor fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Fault Message ID

This metric provides the fault message ID.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Chassis Id

This metric provides the chassis serial number.

Additional Info

This metric provides additional information about the component.

Component Name

This metric provides the name of the component that is the source of the trap.

ILOM SNMP PreOSError Trap

The metrics in this category provide information about the ILOM SNMP PreOSError traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Product Name

This metric provides the product name

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	PreOS Error for %ComponentName%

Chassis Id

This metric provides the chassis serial number.

Component Name

This metric provides the name of the component that is the source of the trap.

ILOM SNMP Power Supply Trap

The metrics in this category provide information about the ILOM SNMP power supply traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Product Name

This metric provides the product name

Fault UUID

This metric provides the UUID that was assigned to this fault.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Power Supply fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Fault Message ID

This metric provides the fault message ID.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Chassis Id

This metric provides the chassis serial number.

Additional Info

This metric provides additional information about the component.

Component Name

This metric provides the name of the component that is the source of the trap.

ILOM SNMP Power Consumption Trap

The metrics in this category provide information about the ILOM SNMP power consumption traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Threshold Value

This metric provides the threshold setting that has been crossed.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	PowerConsumption Threshold fault in %ComponentName%. Threshold of %ThresholdType% with %ThresholdValue%. SensorValue is %SensorValue% .

Threshold Type

This metric identifies the threshold type that the sensor is reporting on.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Sensor Value

This metric provides the threshold sensor's reading at the time the trap was generated.

Product Name

This metric provides the product name

Chassis Id

This metric provides the chassis serial number.

Additional Info

This metric provides additional information about the component.

Component Name

This metric provides the name of the component that is the source of the trap.

ILOM SNMP Memory Trap

The metrics in this category provide information about the ILOM SNMP memory traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Product Name

This metric provides the product name

Fault UUID

This metric provides the UUID that was assigned to this fault.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Memory fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Fault Message ID

This metric provides the fault message ID.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Chassis Id

This metric provides the chassis serial number.

Additional Info

This metric provides additional information about the component.

Component Name

This metric provides the name of the component that is the source of the trap.

ILOM SNMP IO Trap

The metrics in this category provide information about the ILOM SNMP IO traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Product Name

This metric provides the product name

Fault UUID

This metric provides the UUID that was assigned to this fault.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	IO fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Fault Message ID

This metric provides the fault message ID.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Chassis Id

This metric provides the chassis serial number.

Additional Info

This metric provides additional information about the component.

Component Name

This metric provides the name of the component that is the source of the trap.

ILOM SNMP HardDrive Trap

The metrics in this category provide information about the ILOM SNMP hard drive traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Product Name

This metric provides the product name

Hard Drive Status

This metric provides the status of the hard drive.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	HardDrive status update for %ComponentName%.

Hard Drive Fault

This metric provides information about the hard drive fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	HardDrive fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Fault Message ID

This metric provides the fault message ID.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Chassis Id

This metric provides the chassis serial number.

Additional Info

This metric provides additional information about the component.

Component Name

This metric provides the name of the component that is the source of the trap.

ILOM SNMP HAState Change Trap

The metrics in this category provide information about the ILOM SNMP HAState change traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Product Name

This metric provides the product name

OldHAState

This metric provides the old value of the high availability state after a high availability state change has occurred.

NewHAState

This metric provides the new value of the high availability state after a high availability state change has occurred.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	HA state change. OldState: %OldHAState% , NewState:%NewHAState%

Chassis Id

This metric provides the chassis serial number.

ILOM SNMP FRU Trap

The metrics in this category provide information about the ILOM SNMP Field Replacement Unit (FRU) traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Product Name

This metric provides the product name

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	CRITICAL	FRU %ComponentName% with Chassis %ChassisId% has been removed.

Chassis Id

This metric provides the chassis serial number.

Component Name

This metric provides the name of the component that is the source of the trap.

ILOM SNMP Fault Diagnosed Trap

The metrics in this category provide information about the ILOM SNMP fault diagnosed trap.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

SystemIdentifier

This metric provides the system ID.

Suspect FRU Status

This metric provides the status of the FRU suspected of causing a fault.

SuspectFruSn

This metric provides the serial number of the FRU suspected of causing a fault.

SuspectFruRevision

This metric provides the revision level of the FRU suspected of causing a fault.

SuspectFruPn

This metric provides the part number of the FRU suspected of causing a fault.

SuspectFruName

This metric provides the name of the FRU suspected of causing a fault.

SuspectFruManufacturer

This metric provides the name of the manufacturer of the FRU suspected of causing a fault.

SuspectFruLocation

This metric provides the location of the suspected FRU.

SuspectFruFaultClass

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Suspect FRU Fault Certainty

This metric provides the probability that the suspected FRU is the source of the problem.

SuspectFruChassisId

This metric provides the chassis serial number of a Field Replaceable Unit (FRU) suspected of causing a fault.

SuspectCnt

This metric provides the number of suspected faults diagnosed as the cause of the reported hardware errors.

ProductSn

This metric provides the product serial number.

ProductName

This metric provides the product name.

ProductManufacturer

This metric provides the name of the product manufacturer.

ka_url

This metric provides a URL to a knowledge article relating to the issue.

Hostname

This metric provides the host name.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	FaultDiagnosed in %Hostname% with UUID %FaultUUID%.

FaultMessageID

This metric provides a message ID, which you can use to get additional information about the problem from My Oracle Support.

FaultDescription

This metric provides the description of the fault.

EventTime

This metric provides timestamp for when the fault occurred.

DiagEntity

This metric describes the entity that diagnosed the fault.

ILOM SNMP Fan Speed Trap

The metrics in this category provide information about the ILOM SNMP fan speed trap.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Threshold Value

This metric provides the threshold setting that has been crossed.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	FanSpeed Threshold fault in %ComponentName%. Threshold of %ThresholdType% with %ThresholdValue%. SensorValue is %SensorValue% .

Threshold Type

This metric identifies the threshold type that the sensor is reporting on.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Sensor Value

This metric provides the threshold sensor's reading at the time the trap was generated.

Product Name

This metric provides the product name

Chassis Id

This metric provides the chassis serial number.

Additional Info

This metric provides additional information about the component.

Component Name

This metric provides the name of the component that is the source of the trap.

ILOM SNMP Fan Trap

The metrics in this category provide information about ILOM SNMP fan traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Product Name

This metric provides the product name

Fault UUID

This metric provides the UUID that was assigned to this fault.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Fan fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Fault Message ID

This metric provides the fault message ID.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Chassis Id

This metric provides the chassis serial number.

Additional Info

This metric provides additional information about the component.

Component Name

This metric provides the name of the component that is the source of the trap.

ILOM SNMP Electrical Current Trap

The metrics in this category provide information about the ILOM SNMP electrical current traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Threshold Value

This metric provides the threshold setting that has been crossed.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	ElectricalCurrent Threshold fault in %ComponentName%. Threshold of %ThresholdType% with %ThresholdValue%. SensorValue is %SensorValue% .

Threshold Type

This metric identifies the threshold type that the sensor is reporting on.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Sensor Value

This metric provides the threshold sensor's reading at the time the trap was generated.

Product Name

This metric provides the product name

Chassis Id

This metric provides the chassis serial number.

Additional Info

This metric provides additional information about the component.

Component Name

This metric provides the name of the component that is the source of the trap.

ILOM SNMP Drive Controller Trap

The metrics in this category provide information about ILOM SNMP drive controller traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Product Name

This metric provides the product name

Fault UUID

This metric provides the UUID that was assigned to this fault.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	DriveController fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%. ProbableCause=%DriveControllerProbableCause%.

Fault Message ID

This metric provides the fault message ID.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Probable Cause

This metric provides the probable cause for drive controller error.

Chassis Id

This metric provides the chassis serial number.

Additional Info

This metric provides additional information about the component.

Component Name

This metric provides the name of the component that is the source of the trap.

ILOM SNMP Component Trap

The metrics in this category provide information about the ILOM SNMP component trap.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Component fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Fan Usage

The metrics in this category provide information about fan usage.

Real Percentage

This metric provides the real percentage used.

Target Version	Collection Frequency
All versions	Every Hour

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every Hour

Component State

The metrics in this category provide information about the component state.

Error Detail

The metric provides information about errors.

Target Version	Collection Frequency
All versions	Every 72 Hours

Component State

This metric provides the state of the component.

Target Version	Collection Frequency
All versions	Every 72 Hours

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every 72 Hours

Component Faults

The metrics in this category provide information about component faults.

Problem Occurrence Time

This metric provides the time that the problem occurred.

Target Version	Collection Frequency
All versions	Every 72 Hours

Open Problem UUID

This metric provides the universally unique identifier (UUID) of the open problem.

Target Version	Collection Frequency
All versions	Every 72 Hours

Open Problem Status

This metric provides the status of the problem associated with the component.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	1	Fault found in %ComponentName% @ %ProblemOccurrenceTime%. Description: %OpenProblemDescription%, Probability: %OpenProblemProbability%, PartNumber: %ComponentPartNumber%, SerialNumber: %ComponentSerialNumber%

Open Problem Reference Document

This metric provides the URL to an Oracle Support reference document.

Target Version	Collection Frequency
All versions	Every 72 Hours

Open Problem Probability

This metric provides the probability of the open problem.

Target Version	Collection Frequency
All versions	Every 72 Hours

Open Problem Description

This metric provides the description of the open problem.

Target Version	Collection Frequency
All versions	Every 72 Hours

Component subsystem

This metric provides the component subsystem name.

Target Version	Collection Frequency
All versions	Every 72 Hours

Component Serial Number

This metric provides the serial number of the component.

Target Version	Collection Frequency
All versions	Every 72 Hours

Component Part Number

This metric provides the part number of the component.

Target Version	Collection Frequency
All versions	Every 72 Hours

Component Name

This metric provides the name of the component that is the source of the trap.

Target Version	Collection Frequency
All versions	Every 72 Hours

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every 72 Hours

4

Systems Infrastructure PDU

This chapter provides information about the Systems Infrastructure PDU metrics. For each metric, it provides the following information:

- Description
- Metric table

The metric table can include some or all of the following: target version, default collection frequency, default warning threshold, default critical threshold, and alert text.

Network Interfaces Bandwidth

The metrics in this category provide information about the network interfaces bandwidth.

Output Errors Percentage

This metric provides the percentage of output errors on the interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Output Average

This metric provides the average input operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Input/Output Errors Percentage

This metric provides the percentage of input/output errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Input Errors Percentage

This metric provide the percentage of input errors on the interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Input Average

This metric provides the average input operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Bandwidth (KB/sec)

This metric provides the amount of bandwidth used since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Percentage Activity Average

This metric provides the average percentage of activity over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Input/Output Average

This metric provides the average input/output operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions Percentage

This metric provides the total network collisions (in percentage) of the network interface since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Datalinks Performance

The metrics in this category provide information about the Network Datalinks performance.

State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicasts

This metric provides the number of outbound multicasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicast Octets

This metric provides the number of outbound multicast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Dropped Octets

This metric provides the number of outbound dropped octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Broadcasts

This metric provides the number of outbound broadcasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Broadcast Octets

This metric provides the number of outbound broadcast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicasts

This metric provides the number of inbound multicasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicast Octets

This metric provides the number of inbound multicast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Dropped Octets

This metric provides the number of inbound dropped octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Broadcasts

This metric provides the number of inbound broadcasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Broadcast Octets

This metric provides the number of inbound broadcast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Datalink Name

This metric provides the datalink name.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Component State

The metrics in this category provide information about the component state.

Error Detail

The metric provides information about errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Component State

This metric provides the state of the component.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Response

This metric category provides information about the status of the Systems Infrastructure PDU target.

Status

This metric provides the status of the Systems Infrastructure PDU target.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Minute	Not Defined	0	%target% is Down.

PDU Module Status

The metrics in this category provide information about the status of the Power Distribution Unit (PDU) module.

PDU Module Number

This metric provides the number of the PDU module.

Target Version	Collection Frequency
All versions	Every 15 Minutes

PDU Module Out of Balance Threshold Overrun Level

This metric provides the Out of Balance threshold for the measured current.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	1	PDU Module %PduModuleNumber% crossed the Phases Out of Balance Ampere Level alarm threshold set in PDU Web interface on Parameter page. Out of Balance Ampere Level was %OutOfBalanceAmpLevel% A.

PDU Module Out of Balance Ampere Level

This metric provides the Out of Balance threshold for the measured current

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	1000	PDU Module %PduModuleNumber% crossed the Phases Out of Balance Ampere Level alarm threshold %critical_threshold% A set by user in monitoring template. Out of Balance Ampere Level was %OutOfBalanceAmpLevel% A.

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every 15 Minutes

PDU Module Phase Status

The metrics in this category provide information about the phase status of the Power Distribution Unit (PDU) module.

PDU Module Phase Number

This metric provides the phase number of the PDU module.

Target Version	Collection Frequency
All versions	Every 15 Minutes

PDU Module Number

This metric provides the number of the PDU module.

Target Version	Collection Frequency
All versions	Every 15 Minutes

PDU Module Phase Hardware Threshold Overrun Level

This metric provides the phase hardware threshold for the measured current.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	1	2	PDU Module %PduModuleNumber%, Phase %PduModulePhaseNumber% crossed the Module Phase Ampere Level alarm or warning threshold set in PDU Web interface on Parameter page. Module Phase Ampere Level was %ModulePhaseAmp% A.

Current Ampere Consumption on The Phase

This metric provides the amount of current consumed (in amperes) by the PDU module.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	999	1000	PDU Module %PduModuleNumber%, Phase %PduModulePhaseNumber% crossed the Module Phase Ampere Level alarm %critical_threshold% A or warning %warning_threshold% A threshold set by user in monitoring template. Module Phase Ampere Level was %ModulePhaseAmp% A.

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Ports Performance

This metrics in this category provide information about the network ports performance.

vLAN IDs

This metric provides the vLAN ID.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total Octets Rate

This metric provides the rate of total octet bits.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Speed Units

This metric provides the measurement units for the speed.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Speed

This metric provides the speed of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Partition Keys

This metric provides the defined partition keys.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Unicast Packets

This metric provides the number of outbound unicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicast Packets

This metric provides the number of outbound multicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Discards

This metric provides the number of outbound discards.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Operational Status

This metric provides the operational status of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Duplex Mode

This metric provides the specific duplex mode of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

MTU

This metric provides the Maximum Transmission Unit (MTU) of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Unknown Protocol

This metric provides the number of inbound packets with an unknown protocol.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Unicast Packets

This metric provides the number of inbound unicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicast Packets

This metric provides the number of inbound multicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Discarded Packets

This metric provides the information about the number of discarded packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Admin State

This metric provides the information about the administrative state of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Interfaces Performance

The metrics in this category provide information about the network interfaces performance.

Status

This metric provides the status of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Overruns

This metric provides the number of outbound overruns since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Carrier Errors

This metric provides the number of outbound carrier errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Overruns

This metric provides the number of overruns since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Frame Errors

This metric provides the number of frame errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

5

Systems Infrastructure Network

This chapter provides information about the Systems Infrastructure Network metrics. For each metric, it provides the following information:

- Description

Network Performance

The metrics in this category provide information about the network performance.

Network Identifier

This metric provides the identifier for network access.

Throughput rate for reception

This metric provides the throughput rate for receiving traffic.

Total number of errors

This metric provides the total number of errors.

Total number of errors received

This metric provides the total number of errors received.

Total number of octets received

This metric provides the total number of octets received.

Total number of packets received

This metric provides the total number of packets received.

Total number of retries received

This metric provides the total number of retries received.

Total number of retries

This metric provides the total number of retries.

Total number of errors transmitted

This metric provides the total number of transmitted errors.

Total number of octets transmitted

This metric provides the total number of transmitted octets.

Total number of packets transmitted

This metric provides the total number of transmitted packets.

Total number of retries transmitted

This metric provides the total number of transmitted retries.

Throughput rate for transmission

This metric provides the throughput rate for transmitted traffic.

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Systems Infrastructure Switch

This chapter provides information about the Systems Infrastructure Switch metrics. For each metric, it provides the following information:

- Description
- Metric table

The metric table can include some or all of the following: target version, default collection frequency, default warning threshold, default critical threshold, and alert text.

Access Point Response

The metric in this category provides information about the status of the access point.

There is no collection frequency defined for these metrics because the Access Point Response metrics are invoked by the platform to compute Access Point availability.

Status

This metric provides the status of the access point.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	0	Access point is down.

Network Ports Ethernet Events

The metrics in this category provide information about the network ports ethernet events.

Port OID Index

This metric provides the index number of the port OID.

Admin State

This metric provides the information about the administrative state of the link.

Operational Status

This metric provides the operational status of the port.

Network Ports InfiniBand Events

The metrics in this category provide information about the network ports InfiniBand events.

Port OID Index

This metric provides the index number of the port OID.

Active Speed

This metric provides the active speed of the link since the last collection.

Active Width

This metric provides the width of the link since the last collection.

Counter Value

This metric provides the counter value.

Error Rate Interval

This metric provides the error rate interval.

Link State

This metric provides the link state.

Description

This metric provides a description of the event.

Node Index

This metric provides the node index.

Node Lid

This metric provides the local identifier (LID).

Error Counter

This metric provides the error counter.

Address

This metric provides the address.

Symbol Error Increase

This metric provides the increase in symbol errors.

Power Supply Status

The metrics in this category provide information about the power supply status.

Power Supply Name

This metric provides the name of the power supply.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Sensor Value Units

This metric provides the units for the sensor value.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Power Supply Status

This metric provides the status of the power supply.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Power Supply Sensor Value

This metric provides the value of the power supply sensor.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	3	State of the power supply %KeyValue% is either warning or critical. Current state code is %value%. (state code values are mapped as 1=normal,2=warning,3=critical,4=shutdown,5=notPresent,6=notFunctioning)

Response

This metric category provides information about the status of the Systems Infrastructure Switch target.

Status

This metric provides the status of the Systems Infrastructure Switch target.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Minute	Not Defined	0	%target% is Down.

Sensor Status

The metrics in this category provide information about the status of the sensor.

Sensor Identifier

This metric provides the ID of the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Component Identifier

This metric provides the ID of the hardware component.

Target Version	Collection Frequency
All versions	Every Hour

Read Value

This metric provides the read value of the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Status

This metric provides the status of the sensor.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Hour	Not Defined	critical	Fault found in sensor %SensorId%.

Value

This metric provides the value from the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Switch Ports Statistics

The metrics in this category provide information about the switch ports statistics.

Incoming error rate

This metric provides the rate of incoming errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Incoming throughput

This metric provides the incoming throughput.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total number of incoming errors

This metric provides the total number of incoming errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total number of incoming octets

This metric provides the total number of incoming octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total number of outgoing errors

This metric provides the total number of outgoing errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total number of outgoing octets

This metric provides the total number of outgoing octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outgoing error rate

This metric provides the rate of outgoing errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Switch Basic Status

The metrics in this category provide information about the switch basic status.

Booted On

This metric indicates whether the switch is booted.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Locator Light On

This metric indicates whether the locator light is on.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Powered On

This metric indicates whether the switch is powered on.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Status

This metric provides the status of the switch.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Switch Aggregated System Status

The metrics in this category provide information about the status of the switch aggregated system.

Cable State

This metric provides the state of the cable connection

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Overall cable state in system %KeyValue% is faulted.

Cable State Change

This metric provides the change in cable connectivity.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Change in cable connectivity in system %KeyValue% is faulted.

Cooling Redundancy

This metric provides the cooling redundancy state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Cooling redundancy state in system %KeyValue% is faulted.

Cooling State

This metric provides the overall cooling state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Overall cooling state in system %KeyValue% is faulted.

Health Status

This metric provides the health status.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Overall state of the system %KeyValue% is faulted.

InfiniBand State

This metric provides the InfiniBand state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	State of the InfiniBand module in system %KeyValue% is faulted.

Locator Light

This metric provides the locator light.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Power Redundancy

This metric provides the power redundancy state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Power redundancy state in system %KeyValue% is faulted.

Power State

This metric provides the overall power state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Overall power state in system %KeyValue% is faulted.

Temperature State

This metric provides the overall temperature state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Overall temperature state in system %KeyValue% is faulted.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	CRITICAL	Overall temperature state in system %KeyValue% is critical.

Voltage State

This metric provides the voltage state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

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Systems Infrastructure Virtual Server - OS Access Point

This chapter provides information about the Systems Infrastructure Virtual Server - OS Access Point metrics. For each metric, it provides the following information:

- Description
- Metric table

The metric table can include some or all of the following: target version, default collection frequency, default warning threshold, default critical threshold, and alert text.

Network Interfaces Performance

The metrics in this category provide information about the network interfaces performance.

Status

This metric provides the status of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Overruns

This metric provides the number of outbound overruns since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Carrier Errors

This metric provides the number of outbound carrier errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Overruns

This metric provides the number of overruns since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Frame Errors

This metric provides the number of frame errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Interfaces Bandwidth

The metrics in this category provide information about the network interfaces bandwidth.

Output Errors Percentage

This metric provides the percentage of output errors on the interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Output Average

This metric provides the average input operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Input/Output Errors Percentage

This metric provides the percentage of input/output errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Input Errors Percentage

This metric provide the percentage of input errors on the interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Input Average

This metric provides the average input operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Bandwidth (KB/sec)

This metric provides the amount of bandwidth used since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Percentage Activity Average

This metric provides the average percentage of activity over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Input/Output Average

This metric provides the average input/output operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions Percentage

This metric provides the total network collisions (in percentage) of the network interface since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Datalinks Performance

The metrics in this category provide information about the Network Datalinks performance.

Status

This metric provides the status of the datalink.

Target Version	Collection Frequency
All versions	Every 15 Minutes

State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicasts

This metric provides the number of outbound multicasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicast Octets

This metric provides the number of outbound multicast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Dropped Octets

This metric provides the number of outbound dropped octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Broadcasts

This metric provides the number of outbound broadcasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Broadcast Octets

This metric provides the number of outbound broadcast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicasts

This metric provides the number of inbound multicasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicast Octets

This metric provides the number of inbound multicast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Dropped Octets

This metric provides the number of inbound dropped octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Broadcasts

This metric provides the number of inbound broadcasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Broadcast Octets

This metric provides the number of inbound broadcast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Datalink Name

This metric provides the datalink name.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Memory Usage

The metrics in this category provide information about memory usage.

Virtual Memory Usage

This metric provides the virtual memory usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	80	95	Virtual Memory Utilization is %value% %%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Physical Memory Usage

This metric provides the physical memory usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	80	95	Physical Memory Utilization is %value% %%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Locked Memory Usage

This metric provides the locked memory usage.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Virtual CPU Usage

The metrics in this category provide information about virtual CPU usage.

Normalized utilization

This metric provides the percentage of time the virtual CPU spends executing on behalf of the guest operating system.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Processor ID

This metric provides the identifier assigned to this virtual CPU.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Core CPU Usage

The metrics in this category provide information about core CPU usage.

Normalized utilization

This metric provides the percentage of time the core CPU spends executing.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Core ID

This metric provides the identifier assigned to the core CPU.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Fan Usage

The metrics in this category provide information about fan usage.

Real Percentage

This metric provides the real percentage used.

Target Version	Collection Frequency
All versions	Every Hour

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every Hour

Component State

The metrics in this category provide information about the component state.

Error Detail

The metric provides information about errors.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component State

This metric provides the state of the component.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 24 Hours	Not Defined	REMOVED	Fault found in component %ComponentId%

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Faults

The metrics in this category provide information about component faults.

Problem Occurrence Time

This metric provides the time that the problem occurred.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem UUID

This metric provides the universally unique identifier (UUID) of the open problem.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem Status

This metric provides the status of the problem associated with the component.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 24 Hours	Not Defined	1	Fault found in %ComponentName% @ %ProblemOccurrenceTime%. Description: %OpenProblemDescription%, Probability: %OpenProblemProbability%, PartNumber: %ComponentPartNumber%, SerialNumber: %ComponentSerialNumber%

Open Problem Reference Document

This metric provides the URL to an Oracle Support reference document.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem Probability

This metric provides the probability of the open problem.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem Description

This metric provides the description of the open problem.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component subsystem

This metric provides the component subsystem name.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Serial Number

This metric provides the serial number of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Part Number

This metric provides the part number of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Name

This metric provides the name of the component that is the source of the trap.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

CPU Usage

The metrics in this category provide information about CPU usage.

CPU Usage

This metric provides the current amount of CPU usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	80	95	CPU Utilization is %value%%%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Guest State

The metrics in this category provide information about guest states.

State

This metric provides the state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Flags

This metric provides supported flags.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Capped Memory Usage

The metrics in this category provide information about restricted or capped memory usage.

Virtual Memory Cap Usage

This metric provides the restriction or cap on virtual memory usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	Not Defined	Capped Virtual Memory Utilization is %value%%%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Physical Memory Cap Usage

This metric provides the restriction or cap on physical memory usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	Not Defined	Capped Physical Memory Utilization is %value%%%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Locked Memory Cap Usage

This metric provides the restriction or cap on locked memory usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	Not Defined	Capped Locked Memory Utilization is %value%%%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

UpTime

The metric in this category provides information about how long the system is running.

UpTime

This metric provides the length of time that a system has been running.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inlet/Outlet Temperature Info for Server

The metrics in this category provide information about the server temperature.

System Temperature in Celsius

The metric provides the system temperature in degrees Celsius.

Target Version	Collection Frequency
All versions	Every Hour

Inlet Temperature in Celsius

The metric provides the inlet temperature in degrees Celsius.

Target Version	Collection Frequency
All versions	Every Hour

Exhaust Temperature in Celsius

The metric provides the exhaust temperature in degrees Celsius.

Target Version	Collection Frequency
All versions	Every Hour

Switch Aggregated System Status

The metrics in this category provide information about the status of the switch aggregated system.

Cable State

This metric provides the state of the cable connection

Target Version	Collection Frequency
All versions	Every Hour

Cable State Change

This metric provides the change in cable connectivity.

Target Version	Collection Frequency
All versions	Every Hour

Cooling Redundancy

This metric provides the cooling redundancy state.

Target Version	Collection Frequency
All versions	Every Hour

Cooling State

This metric provides the overall cooling state.

Target Version	Collection Frequency
All versions	Every Hour

Health Status

This metric provides the health status.

Target Version	Collection Frequency
All versions	Every Hour

InfiniBand State

This metric provides the InfiniBand state.

Target Version	Collection Frequency
All versions	Every Hour

Locator Light

This metric provides the locator light.

Target Version	Collection Frequency
All versions	Every Hour

Power Redundancy

This metric provides the power redundancy state.

Target Version	Collection Frequency
All versions	Every Hour

Power State

This metric provides the overall power state.

Target Version	Collection Frequency
All versions	Every Hour

Temperature State

This metric provides the overall temperature state.

Target Version	Collection Frequency
All versions	Every Hour

Voltage State

This metric provides the voltage state.

Target Version	Collection Frequency
All versions	Every Hour

Sensor Status

The metrics in this category provide information about the status of the sensor.

Value

This metric provides the value from the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Status

This metric provides the status of the sensor.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Hour	Not Defined	critical	Fault found in sensor %SensorId%

Read Value

This metric provides the read value of the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Component Identifier

This metric provides the ID of the hardware component.

Target Version	Collection Frequency
All versions	Every Hour

Sensor Identifier

This metric provides the ID of the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Service Processor Status

The metrics in this category provide information about the status of the service processor.

Uptime

This metric provides the current up time of the service processor.

Target Version	Collection Frequency
All versions	Every Hour

Date Time

This metric provides the data and time associated with the service processor.

Target Version	Collection Frequency
All versions	Every Hour

Response

This metric category provides information about the status of the Systems Infrastructure Virtual Server - OS Access Point target.

Status

This metric provides the status of the Systems Infrastructure Virtual Server - OS Access Point target.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Minute	Not Defined	0	%target% is Down.

Power Usage Summary

The metrics in this category provide information about power usage.

Power One Minute Average

This metric provides the average power consumption per minute.

Target Version	Collection Frequency
All versions	Every Hour

Current Power

This metric provides information about the current power.

Target Version	Collection Frequency
All versions	Every Hour

Type

This metric provides information about the power type.

Target Version	Collection Frequency
All versions	Every Hour

Network Ports Performance

This metrics in this category provide information about the network ports performance.

vLAN IDs

This metric provides the vLAN ID.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total Octets Rate

This metric provides the rate of total octet bits.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Speed Units

This metric provides the measurement units for the speed.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Speed

This metric provides the speed of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Partition Keys

This metric provides the defined partition keys.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Unicast Packets

This metric provides the number of outbound unicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicast Packets

This metric provides the number of outbound multicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Discards

This metric provides the number of outbound discards.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Operational Status

This metric provides the operational status of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Duplex Mode

This metric provides the specific duplex mode of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

MTU

This metric provides the Maximum Transmission Unit (MTU) of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Unknown Protocol

This metric provides the number of inbound packets with an unknown protocol.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Unicast Packets

This metric provides the number of inbound unicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicast Packets

This metric provides the number of inbound multicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Discarded Packets

This metric provides the information about the number of discarded packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Admin State

This metric provides the information about the administrative state of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

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Systems Infrastructure Virtual Server

This chapter provides information about the Systems Infrastructure Virtual Server metrics. For each metric, it provides the following information:

- Description
- Metric table

The metric table can include some or all of the following: target version, default collection frequency, default warning threshold, default critical threshold, and alert text.

Access Point Response

The metric in this category provides information about the status of the access point.

There is no collection defined for this metric because the Access Point Response metrics are invoked by the platform to compute access point availability.

Status

This metric provides the status of the access point.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	0	Access point is down

Capped Memory Usage

The metrics in this category provide information about restricted or capped memory usage.

Virtual Memory Cap Usage

This metric provides the restriction or cap on virtual memory usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	Not Defined	Capped Virtual Memory Utilization is %value%%%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Physical Memory Cap Usage

This metric provides the restriction or cap on physical memory usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	Not Defined	Capped Physical Memory Utilization is %value%%%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Locked Memory Cap Usage

This metric provides the restriction or cap on locked memory usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	Not Defined	Capped Locked Memory Utilization is %value%%%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Component Faults

The metrics in this category provide information about component faults.

Problem Occurrence Time

This metric provides the time that the problem occurred.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem UUID

This metric provides the universally unique identifier (UUID) of the open problem.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem Status

This metric provides the status of the problem associated with the component.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 24 Hours	Not Defined	1	Fault found in %ComponentName% @ %ProblemOccurrenceTime%. Description: %OpenProblemDescription%, Probability: %OpenProblemProbability%, PartNumber: %ComponentPartNumber%, SerialNumber: %ComponentSerialNumber%

Open Problem Reference Document

This metric provides the URL to an Oracle Support reference document.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem Probability

This metric provides the probability of the open problem.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem Description

This metric provides the description of the open problem.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component subsystem

This metric provides the component subsystem name.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Serial Number

This metric provides the serial number of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Part Number

This metric provides the part number of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Name

This metric provides the name of the component that is the source of the trap.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component State

The metrics in this category provide information about the component state.

Error Detail

The metric provides information about errors.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component State

This metric provides the state of the component.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 24 Hours	Not Defined	REMOVED	Fault found in component %ComponentId%

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

Core CPU Usage

The metrics in this category provide information about core CPU usage.

Normalized utilization

This metric provides the percentage of time the core CPU spends executing.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Core ID

This metric provides the identifier assigned to the core CPU.

Target Version	Collection Frequency
All versions	Every 15 Minutes

CPU Usage

The metrics in this category provide information about CPU usage.

CPU Usage

This metric provides the current amount of CPU usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	80	95	CPU Utilization is %value%%%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Fan Usage

The metrics in this category provide information about fan usage.

Real Percentage

This metric provides the real percentage used.

Target Version	Collection Frequency
All versions	Every Hour

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every Hour

Guest State

The metrics in this category provide information about guest states.

State

This metric provides the state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Flags

This metric provides supported flags.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inlet/Outlet Temperature Info for Server

The metrics in this category provide information about the server temperature.

System Temperature in Celsius

The metric provides the system temperature in degrees Celsius.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inlet Temperature in Celsius

The metric provides the inlet temperature in degrees Celsius.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Exhaust Temperature in Celsius

The metric provides the exhaust temperature in degrees Celsius.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Memory Usage

The metrics in this category provide information about memory usage.

Virtual Memory Usage

This metric provides the virtual memory usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	80	95	Virtual Memory Utilization is %value% %%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Physical Memory Usage

This metric provides the physical memory usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	80	95	Physical Memory Utilization is %value% %%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Locked Memory Usage

This metric provides the locked memory usage.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Datalinks Performance

The metrics in this category provide information about the Network Datalinks performance.

Status

This metric provides the status of the datalink.

Target Version	Collection Frequency
All versions	Every 15 Minutes

State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicasts

This metric provides the number of outbound multicasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicast Octets

This metric provides the number of outbound multicast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Dropped Octets

This metric provides the number of outbound dropped octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Broadcasts

This metric provides the number of outbound broadcasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Broadcast Octets

This metric provides the number of outbound broadcast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicasts

This metric provides the number of inbound multicasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicast Octets

This metric provides the number of inbound multicast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Dropped Octets

This metric provides the number of inbound dropped octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Broadcasts

This metric provides the number of inbound broadcasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Broadcast Octets

This metric provides the number of inbound broadcast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Datalink Name

This metric provides the datalink name.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Interfaces Bandwidth

The metrics in this category provide information about the network interfaces bandwidth.

Output Errors Percentage

This metric provides the percentage of output errors on the interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Output Average

This metric provides the average input operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Input/Output Errors Percentage

This metric provides the percentage of input/output errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Input Errors Percentage

This metric provide the percentage of input errors on the interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Input Average

This metric provides the average input operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Bandwidth (KB/sec)

This metric provides the amount of bandwidth used since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Percentage Activity Average

This metric provides the average percentage of activity over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Input/Output Average

This metric provides the average input/output operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions Percentage

This metric provides the total network collisions (in percentage) of the network interface since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Interfaces Performance

The metrics in this category provide information about the network interfaces performance.

Status

This metric provides the status of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Overruns

This metric provides the number of outbound overruns since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Carrier Errors

This metric provides the number of outbound carrier errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Overruns

This metric provides the number of overruns since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Frame Errors

This metric provides the number of frame errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Ports Performance

This metrics in this category provide information about the network ports performance.

vLAN IDs

This metric provides the vLAN ID.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total Octets Rate

This metric provides the rate of total octet bits.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Speed Units

This metric provides the measurement units for the speed.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Speed

This metric provides the speed of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Partition Keys

This metric provides the defined partition keys.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Unicast Packets

This metric provides the number of outbound unicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicast Packets

This metric provides the number of outbound multicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Discards

This metric provides the number of outbound discards.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Operational Status

This metric provides the operational status of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Duplex Mode

This metric provides the specific duplex mode of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

MTU

This metric provides the Maximum Transmission Unit (MTU) of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Unknown Protocol

This metric provides the number of inbound packets with an unknown protocol.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Unicast Packets

This metric provides the number of inbound unicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicast Packets

This metric provides the number of inbound multicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Discarded Packets

This metric provides the information about the number of discarded packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Admin State

This metric provides the information about the administrative state of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Power Usage Summary

The metrics in this category provide information about power usage.

Power One Minute Average

This metric provides the average power consumption per minute.

Target Version	Collection Frequency
All versions	Every Hour

Current Power

This metric provides information about the current power.

Target Version	Collection Frequency
All versions	Every Hour

Type

This metric provides information about the power type.

Target Version	Collection Frequency
All versions	Every Hour

Response

This metric category provides information about the status of the Systems Infrastructure Virtual Server target.

Status

This metric provides the status of the Systems Infrastructure Virtual Server target.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Minute	Not Defined	0	%target% is Down.

Sensor Status

The metrics in this category provide information about the status of the sensor.

Value

This metric provides the value from the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Status

This metric provides the status of the sensor.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	critical	Fault found in sensor %SensorId%

Read Value

This metric provides the read value of the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Component Identifier

This metric provides the ID of the hardware component.

Target Version	Collection Frequency
All versions	Every Hour

Sensor Identifier

This metric provides the ID of the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Service Processor Status

The metrics in this category provide information about the status of the service processor.

Uptime

This metric provides the current uptime of the service processor.

Target Version	Collection Frequency
All versions	Every Hour

Date Time

This metric provides the data and time associated with the service processor.

Target Version	Collection Frequency
All versions	Every Hour

Switch Aggregated System Status

The metrics in this category provide information about the status of the switch aggregated system.

Cable State

This metric provides the state of the cable connection

Target Version	Collection Frequency
All versions	Every Hour

Cable State Change

This metric provides the change in cable connectivity.

Target Version	Collection Frequency
All versions	Every Hour

Cooling Redundancy

This metric provides the cooling redundancy state.

Target Version	Collection Frequency
All versions	Every Hour

Cooling State

This metric provides the overall cooling state.

Target Version	Collection Frequency
All versions	Every Hour

Health Status

This metric provides the health status.

Target Version	Collection Frequency
All versions	Every Hour

InfiniBand State

This metric provides the InfiniBand state.

Target Version	Collection Frequency
All versions	Every Hour

Locator Light

This metric provides the locator light.

Target Version	Collection Frequency
All versions	Every Hour

Power Redundancy

This metric provides the power redundancy state.

Target Version	Collection Frequency
All versions	Every Hour

Power State

This metric provides the overall power state.

Target Version	Collection Frequency
All versions	Every Hour

Temperature State

This metric provides the overall temperature state.

Target Version	Collection Frequency
All versions	Every Hour

Voltage State

This metric provides the voltage state.

Target Version	Collection Frequency
All versions	Every Hour

UpTime

The metric in this category provides information about how long the system is running.

UpTime

This metric provides the length of time that a system has been running.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Virtual CPU Usage

The metrics in this category provide information about virtual CPU usage.

Normalized utilization

This metric provides the percentage of time the virtual CPU spends executing on behalf of the guest operating system.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Processor ID

This metric provides the identifier assigned to this virtual CPU.

Target Version	Collection Frequency
All versions	Every 15 Minutes

9

Logical Domain

This chapter provides information about the Logical Domain metrics. For each metric, it provides the following information:

- Description
- Metric table

The metric table can include some or all of the following: target version, default collection frequency, default warning threshold, default critical threshold, and alert text.

Service Processor Status

The metrics in this category provide information about the status of the service processor.

Date Time

This metric provides the data and time associated with the service processor.

Target Version	Collection Frequency
All versions	Every Hour

Uptime

This metric provides the current uptime of the service processor.

Target Version	Collection Frequency
All versions	Every Hour

Response

This metric category provides information about the status of the Logical Domain target.

Status

This metric provides the status of the Logical Domain target.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Minute	Not Defined	0	%target% is Down.

Power Usage Summary

The metrics in this category provide information about power usage.

Power One Minute Average

This metric provides the average power consumption per minute.

Target Version	Collection Frequency
All versions	Every Hour

Current Power

This metric provides information about the current power.

Target Version	Collection Frequency
All versions	Every Hour

Type

This metric provides information about the power type.

Target Version	Collection Frequency
All versions	Every Hour

Network Ports Performance

This metrics in this category provide information about the network ports performance.

vLAN IDs

This metric provides the vLAN ID.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total Octets Rate

This metric provides the rate of total octet bits.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Speed Units

This metric provides the measurement units for the speed.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Speed

This metric provides the speed of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Partition Keys

This metric provides the defined partition keys.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Unicast Packets

This metric provides the number of outbound unicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicast Packets

This metric provides the number of outbound multicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Discards

This metric provides the number of outbound discards.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Operational Status

This metric provides the operational status of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Duplex Mode

This metric provides the specific duplex mode of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

MTU

This metric provides the Maximum Transmission Unit (MTU) of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Unknown Protocol

This metric provides the number of inbound packets with an unknown protocol.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Unicast Packets

This metric provides the number of inbound unicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicast Packets

This metric provides the number of inbound multicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Discarded Packets

This metric provides the information about the number of discarded packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Admin State

This metric provides the information about the administrative state of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Interfaces Performance

The metrics in this category provide information about the network interfaces performance.

Status

This metric provides the status of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Overruns

This metric provides the number of outbound overruns since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Carrier Errors

This metric provides the number of outbound carrier errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Overruns

This metric provides the number of overruns since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Frame Errors

This metric provides the number of frame errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Interfaces Bandwidth

The metrics in this category provide information about the network interfaces bandwidth.

Output Errors Percentage

This metric provides the percentage of output errors on the interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Output Average

This metric provides the average input operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Input/Output Errors Percentage

This metric provides the percentage of input/output errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Input Errors Percentage

This metric provide the percentage of input errors on the interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Input Average

This metric provides the average input operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Bandwidth (KB/sec)

This metric provides the amount of bandwidth used since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Percentage Activity Average

This metric provides the average percentage of activity over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Input/Output Average

This metric provides the average input/output operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions Percentage

This metric provides the total network collisions (in percentage) of the network interface since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Datalinks Performance

The metrics in this category provide information about the Network Datalinks performance.

Status

This metric provides the status of the datalink.

Target Version	Collection Frequency
All versions	Every 15 Minutes

State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicasts

This metric provides the number of outbound multicasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicast Octets

This metric provides the number of outbound multicast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Dropped Octets

This metric provides the number of outbound dropped octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Broadcasts

This metric provides the number of outbound broadcasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Broadcast Octets

This metric provides the number of outbound broadcast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicasts

This metric provides the number of inbound multicasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicast Octets

This metric provides the number of inbound multicast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Dropped Octets

This metric provides the number of inbound dropped octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Broadcasts

This metric provides the number of inbound broadcasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Broadcast Octets

This metric provides the number of inbound broadcast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Datalink Name

This metric provides the datalink name.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Memory Usage

The metrics in this category provide information about memory usage.

Virtual Memory Usage

This metric provides the virtual memory usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	80	95	Virtual Memory Utilization is %value% %%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Physical Memory Usage

This metric provides the physical memory usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	80	95	Physical Memory Utilization is %value% %%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Locked Memory Usage

This metric provides the locked memory usage.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Virtual CPU Usage

The metrics in this category provide information about virtual CPU usage.

Normalized utilization

This metric provides the percentage of time the virtual CPU spends executing on behalf of the guest operating system.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Processor ID

This metric provides the identifier assigned to this virtual CPU.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Core CPU Usage

The metrics in this category provide information about core CPU usage.

Normalized utilization

This metric provides the percentage of time the core CPU spends executing.

Target Version	Collection Frequency
All versions	Every 24 Hours

Core ID

This metric provides the identifier assigned to the core CPU.

Target Version	Collection Frequency
All versions	Every 24 Hours

Fan Usage

The metrics in this category provide information about fan usage.

Real Percentage

This metric provides the real percentage used.

Target Version	Collection Frequency
All versions	Every Hour

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every Hour

Component State

The metrics in this category provide information about the component state.

Error Detail

The metric provides information about errors.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component State

This metric provides the state of the component.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 24 Hours	Not Defined	REMOVED	Fault found in component %ComponentId%

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Faults

The metrics in this category provide information about component faults.

Problem Occurrence Time

This metric provides the time that the problem occurred.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem UUID

This metric provides the universally unique identifier (UUID) of the open problem.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem Status

This metric provides the status of the problem associated with the component.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 24 Hours	Not Defined	1	Fault found in %ComponentName% @ %ProblemOccurrenceTime%. Description: %OpenProblemDescription%, Probability: %OpenProblemProbability%, PartNumber: %ComponentPartNumber%, SerialNumber: %ComponentSerialNumber%

Open Problem Reference Document

This metric provides the URL to an Oracle Support reference document.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem Probability

This metric provides the probability of the open problem.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem Description

This metric provides the description of the open problem.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component subsystem

This metric provides the component subsystem name.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Serial Number

This metric provides the serial number of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Part Number

This metric provides the part number of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Name

This metric provides the name of the component that is the source of the trap.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

CPU Usage

The metrics in this category provide information about CPU usage.

CPU Usage

This metric provides the current amount of CPU usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	80	95	CPU Utilization is %value%%%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Guest State

The metrics in this category provide information about guest states.

State

This metric provides the state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Flags

This metric provides supported flags.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Capped Memory Usage

The metrics in this category provide information about restricted or capped memory usage.

Virtual Memory Cap Usage

This metric provides the restriction or cap on virtual memory usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	Not Defined	Capped Virtual Memory Utilization is %value%%%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Physical Memory Cap Usage

This metric provides the restriction or cap on physical memory usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	Not Defined	Capped Physical Memory Utilization is %value%%%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Locked Memory Cap Usage

This metric provides the restriction or cap on locked memory usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	Not Defined	Capped Locked Memory Utilization is %value%%%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Up Time

The metric in this category provides information about how long the system is running.

UpTime

This metric provides the length of time that a system has been running.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inlet/Outlet Temperature Info for Server

The metrics in this category provide information about the server temperature.

System Temperature in Celsius

The metric provides the system temperature in degrees Celsius.

Target Version	Collection Frequency
All versions	Every Hour

Inlet Temperature in Celsius

The metric provides the inlet temperature in degrees Celsius.

Target Version	Collection Frequency
All versions	Every Hour

Exhaust Temperature in Celsius

The metric provides the exhaust temperature in degrees Celsius.

Target Version	Collection Frequency
All versions	Every Hour

Switch Aggregated System Status

The metrics in this category provide information about the status of the switch aggregated system.

Cable State

This metric provides the state of the cable connection

Target Version	Collection Frequency
All versions	Every Hour

Cable State Change

This metric provides the change in cable connectivity.

Target Version	Collection Frequency
All versions	Every Hour

Cooling Redundancy

This metric provides the cooling redundancy state.

Target Version	Collection Frequency
All versions	Every Hour

Cooling State

This metric provides the overall cooling state.

Target Version	Collection Frequency
All versions	Every Hour

Health Status

This metric provides the health status.

Target Version	Collection Frequency
All versions	Every Hour

InfiniBand State

This metric provides the InfiniBand state.

Target Version	Collection Frequency
All versions	Every Hour

Locator Light

This metric provides the locator light.

Target Version	Collection Frequency
All versions	Every Hour

Power Redundancy

This metric provides the power redundancy state.

Target Version	Collection Frequency
All versions	Every Hour

Power State

This metric provides the overall power state.

Target Version	Collection Frequency
All versions	Every Hour

Temperature State

This metric provides the overall temperature state.

Target Version	Collection Frequency
All versions	Every Hour

Voltage State

This metric provides the voltage state.

Target Version	Collection Frequency
All versions	Every Hour

Sensor Status

The metrics in this category provide information about the status of the sensor.

Value

This metric provides the value from the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Status

This metric provides the status of the sensor.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Hour	Not Defined	critical	Fault found in sensor %SensorId%

Read Value

This metric provides the read value of the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Component Identifier

This metric provides the ID of the hardware component.

Target Version	Collection Frequency
All versions	Every Hour

Sensor Identifier

This metric provides the ID of the sensor.

Target Version	Collection Frequency
All versions	Every Hour

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Solaris Zones Virtualization Platform (RAD)

This chapter provides information about the Solaris Zones Virtualization Platform (RAD) metrics. For each metric, it provides the following information:

- Description
- Metric table

The metric table can include some or all of the following: target version, default collection frequency, default warning threshold, default critical threshold, and alert text.

Response

This metric category provides information about the status of the Solaris Zones Virtualization Platform (RAD) target.

Status

This metric provides the status of the Solaris Zones Virtualization Platform (RAD) target.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Minute	Not Defined	0	%target% is Down.

Power Usage Summary

The metrics in this category provide information about power usage.

Power One Minute Average

This metric provides the average power consumption per minute.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Current Power

This metric provides information about the current power.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Type

This metric provides information about the power type.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Virtual Platform Synchronization

The metric in this category provide information about virtual platform synchronization.

Is Platform Synchronization Required

This metric specifies whether platform synchronization is required.

Target Version	Collection Frequency
All versions	Every 10 Minutes

Virtualization Platform Status

The metrics in this category provide information about the status of the virtualization platform.

State

This metric provides the state of the platform.

Target Version	Collection Frequency
All versions	Every 10 Minutes

Health

This metric provides the health of the platform.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 10 Minutes	UNKNOWN	DEGRADED|MAINTENANCE	Virtual Platform SMF service health is %value%

Boot Time

This metric provides the time that the system started or booted.

Target Version	Collection Frequency
All versions	Every 10 Minutes

Memory Usage Information

The metrics in this category provide information about memory usage.

Percentage Used

This metric provides the used memory as a percentage of total memory.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total Memory

This metric provides the total amount of memory.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Percentage Kernel

This metric provides the percentage of memory used by the guest.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Percentage in Guests

This metric provides the percentage of memory used by the guest

Target Version	Collection Frequency
All versions	Every 15 Minutes

Percentage Free

This metric provides the percentage of free memory.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Name of Memory Type

This metric provides the type of memory.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Datalink Usage

The metrics in this category provide information about datalink usage.

Outbound Octets count

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Maximum Bandwidth Percentage

This metric provides the maximum bandwidth percentage.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Maximum Bandwidth

This metric provides the maximum bandwidth.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Is datalink physical

This metric specifies if this datalink is physical.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets count

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Datalink Name

This metric provides the datalink name.

Target Version	Collection Frequency
All versions	Every 15 Minutes

CPU Usage Information

The metrics in this category provide information about CPU usage.

Percent usage in user space

This metric provides the percentage of CPU usage in the user space.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Overall Busy Percentage

This metric provides the percentage of CPU that is busy.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Percent usage in kernel

This metric provides the percentage of CPU usage in the kernel.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Percent idle

This metric provides the percentage of CPU that is idle.

Target Version	Collection Frequency
All versions	Every 15 Minutes

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Systems Infrastructure Virtualization Platform

This chapter provides information about the Systems Infrastructure Virtualization Platform metrics. For each metric, it provides the following information:

- Description
- Metric table

The metric table can include some or all of the following: target version, default collection frequency, default warning threshold, default critical threshold, and alert text.

Response

This metric category provides information about the status of the Systems Infrastructure Virtualization Platform target.

Status

This metric provides the status of the Systems Infrastructure Virtualization Platform target.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Minute	Not Defined	0	%target% is Down.

Power Usage Summary

The metrics in this category provide information about power usage.

Power One Minute Average

This metric provides the average power consumption per minute.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Current Power

This metric provides information about the current power.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Type

This metric provides information about the power type.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Virtual Platform Synchronization

The metric in this category provide information about virtual platform synchronization.

Is Platform Synchronization Required

This metric specifies whether platform synchronization is required.

Target Version	Collection Frequency
All versions	Every 10 Minutes

Virtualization Platform Status

The metrics in this category provide information about the status of the virtualization platform.

State

This metric provides the state of the platform.

Target Version	Collection Frequency
All versions	Every 10 Minutes

Health

This metric provides the health of the platform.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 10 Minutes	UNKNOWN	DEGRADED|MAINTENANCE	Virtual Platform SMF service health is %value%

Boot Time

This metric provides the time that the system started or booted.

Target Version	Collection Frequency
All versions	Every 10 Minutes

Memory Usage Information

The metrics in this category provide information about memory usage.

Percentage Used

This metric provides the used memory as a percentage of total memory.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total Memory

This metric provides the total amount of memory.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Percentage Kernel

This metric provides the percentage of memory used by the guest.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Percentage in Guests

This metric provides the percentage of memory used by the guest

Target Version	Collection Frequency
All versions	Every 15 Minutes

Percentage Free

This metric provides the percentage of free memory.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Name of Memory Type

This metric provides the type of memory.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Datalink Usage

The metrics in this category provide information about datalink usage.

Outbound Octets count

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Maximum Bandwidth Percentage

This metric provides the maximum bandwidth percentage.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Maximum Bandwidth

This metric provides the maximum bandwidth.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Is datalink physical

This metric specifies if this datalink is physical.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets count

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Datalink Name

This metric provides the datalink name.

Target Version	Collection Frequency
All versions	Every 15 Minutes

CPU Usage Information

The metrics in this category provide information about CPU usage.

Percent usage in user space

This metric provides the percentage of CPU usage in the user space.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Overall Busy Percentage

This metric provides the percentage of CPU that is busy.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Percent usage in kernel

This metric provides the percentage of CPU usage in the kernel.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Percent idle

This metric provides the percentage of CPU that is idle.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Access Point Response

The metric in this category provides information about the status of the access point.

Status

This metric provides the status of the access point.

There is no collection defined for this metric because the Access Point Response metrics are invoked by the platform to compute access point availability.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	0	Access point is down

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SPARC Virtualization Platform

This chapter provides information about the SPARC Virtualization Platform metrics. For each metric, it provides the following information:

- Description
- Metric table

The metric table can include some or all of the following: target version, default collection frequency, default warning threshold, default critical threshold, and alert text.

Datalink Usage

The metrics in this category provide information about datalink usage.

Maximum Bandwidth Percentage

This metric provides the maximum bandwidth percentage.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Maximum Bandwidth

This metric provides the maximum bandwidth.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Is datalink physical

This metric specifies if this datalink is physical.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets count

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Datalink Name

This metric provides the datalink name.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets count

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

CPU Usage Information

The metrics in this category provide information about CPU usage.

Percent usage in user space

This metric provides the percentage of CPU usage in the user space.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Overall Busy Percentage

This metric provides the percentage of CPU that is busy.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Percent usage in kernel

This metric provides the percentage of CPU usage in the kernel.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Percent idle

This metric provides the percentage of CPU that is idle.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Response

This metric category provides information about the status of the SPARC Virtualization Platform target.

Status

This metric provides the status of the SPARC Virtualization Platform target.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Minute	Not Defined	0	%target% is Down.

Power Usage Summary

The metrics in this category provide information about power usage.

Power One Minute Average

This metric provides the average power consumption per minute.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Current Power

This metric provides information about the current power.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Type

This metric provides information about the power type.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Virtual Platform Synchronization

The metric in this category provide information about virtual platform synchronization.

Is Platform Synchronization Required

This metric specifies whether platform synchronization is required.

Target Version	Collection Frequency
All versions	Every 10 Minutes

Virtualization Platform Status

The metrics in this category provide information about the status of the virtualization platform.

State

This metric provides the state of the platform.

Target Version	Collection Frequency
All versions	Every 10 Minutes

Health

This metric provides the health of the platform.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Minute	UNKNOWN	DEGRADED|MAINTENANCE	Virtual Platform SMF service health is %value%

Boot Time

This metric provides the time that the system started or booted.

Target Version	Collection Frequency
All versions	Every 10 Minutes

Memory Usage Information

The metrics in this category provide information about memory usage.

Percentage Used

This metric provides the used memory as a percentage of total memory.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total Memory

This metric provides the total amount of memory.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Percentage Kernel

This metric provides the percentage of memory used by the guest.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Percentage in Guests

This metric provides the percentage of memory used by the guest

Target Version	Collection Frequency
All versions	Every 15 Minutes

Percentage Free

This metric provides the percentage of free memory.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Name of Memory Type

This metric provides the type of memory.

Target Version	Collection Frequency
All versions	Every 15 Minutes

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Systems Infrastructure Oracle InfiniBand Switch - ILOM

This chapter provides information about the Systems Infrastructure Oracle InfiniBand Switch - ILOM metrics. For each metric, it provides the following information:

- Description
- Metric table

The metric table can include some or all of the following: target version, default collection frequency, default warning threshold, default critical threshold, and alert text.

Component State

The metrics in this category provide information about the component state.

Error Detail

The metric provides information about errors.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component State

This metric provides the state of the component.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 24 Hours	Not Defined	REMOVED	Fault found in component %ComponentId%

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

CPU Utilization

This metric provides information about CPU utilization percentage which is the aggregate utilization for all the CPU cores.

Idle CPU (%)

This metric provides the idle CPU percentage for the switch.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Kernel CPU Utilization (%)

This metric provides the kernel CPU utilization percentage for the switch.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All Versions	Every 15 Minutes	80	90	Kernel CPU Utilization (%KernelCPUUtilPercentage %) is above WARNING (%warning_threshold %) or CRITICAL (%critical_threshold %) threshold.

User CPU Utilization (%)

This metric provides the user CPU utilization percentage for the switch.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All Versions	Every 15 Minutes	80	90	User CPU Utilization (%UserCPUUtilPercentage%) is above WARNING (%warning_threshold%) or CRITICAL (%critical_threshold%) threshold.

Memory Utilization

This metric provides information about memory utilization for the switch.

Free Memory Size (MB)

This metric provides the information about free memory size available on the switch in Megabytes.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Free Memory (%)

This metric provides the information about free memory percentage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All Versions	Every 15 Minutes	15	5	Free Memory (%FreeMemoryPercentage%) is below the WARNING (%warning_threshold%) or CRITICAL (%critical_threshold%) threshold.

Total Memory Size (MB)

This metric provides the information about total memory size available on the switch in Megabytes.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Used Memory Size (MB)

This metric provides the information about used memory size for the switch in Megabytes.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Network Datalinks Performance

The metrics in this category provide information about the Network Datalinks performance.

Status

This metric provides the status of the datalink.

Target Version	Collection Frequency
All versions	Every 24 Hours

State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 24 Hours

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All versions	Every 24 Hours

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 24 Hours

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 24 Hours

Outbound Multicasts

This metric provides the number of outbound multicasts.

Target Version	Collection Frequency
All versions	Every 24 Hours

Outbound Multicast Octets

This metric provides the number of outbound multicast octets.

Target Version	Collection Frequency
All versions	Every 24 Hours

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 24 Hours

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All versions	Every 24 Hours

Outbound Dropped Octets

This metric provides the number of outbound dropped octets.

Target Version	Collection Frequency
All versions	Every 24 Hours

Outbound Broadcasts

This metric provides the number of outbound broadcasts.

Target Version	Collection Frequency
All versions	Every 24 Hours

Outbound Broadcast Octets

This metric provides the number of outbound broadcast octets.

Target Version	Collection Frequency
All versions	Every 24 Hours

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All versions	Every 24 Hours

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 24 Hours

Inbound Multicasts

This metric provides the number of inbound multicasts.

Target Version	Collection Frequency
All versions	Every 24 Hours

Inbound Multicast Octets

This metric provides the number of inbound multicast octets.

Target Version	Collection Frequency
All versions	Every 24 Hours

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 24 Hours

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All versions	Every 24 Hours

Inbound Dropped Octets

This metric provides the number of inbound dropped octets.

Target Version	Collection Frequency
All versions	Every 24 Hours

Inbound Broadcasts

This metric provides the number of inbound broadcasts.

Target Version	Collection Frequency
All versions	Every 24 Hours

Inbound Broadcast Octets

This metric provides the number of inbound broadcast octets.

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All versions	Every 24 Hours

Datalink Name

This metric provides the datalink name.

Target Version	Collection Frequency
All versions	Every 24 Hours

Network Interfaces Bandwidth

The metrics in this category provide information about the network interfaces bandwidth.

Output Errors Percentage

This metric provides the percentage of output errors on the interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Output Average

This metric provides the average input operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Input/Output Errors Percentage

This metric provides the percentage of input/output errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Input Errors Percentage

This metric provide the percentage of input errors on the interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Input Average

This metric provides the average input operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Bandwidth (KB/sec)

This metric provides the amount of bandwidth used since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Percentage Activity Average

This metric provides the average percentage of activity over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Input/Output Average

This metric provides the average input/output operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions Percentage

This metric provides the total network collisions (in percentage) of the network interface since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Interfaces Performance

The metrics in this category provide information about the network interfaces performance.

Status

This metric provides the status of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Overruns

This metric provides the number of outbound overruns since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Carrier Errors

This metric provides the number of outbound carrier errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Overruns

This metric provides the number of overruns since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Frame Errors

This metric provides the number of frame errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Ports InfiniBand Error Statistics

The metrics in this category provide information about the network ports InfiniBand error statistics.

Sent Discards

This metric provides the number sent discards that occurred since the last collection.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Sent Constraint Errors

This metric provides the number of sent constraint errors since the last collection.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% packets not transmitted due to constraints, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Virtual Lane 15 Packets Dropped

This metric provides the number of incoming VL15 packets dropped due to resource limitations on the port.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% incoming VL15 packets dropped, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Total errors

This metric provides the total number of errors.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	10	Not Defined	Port %PortId% has %value% total errors, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Symbol Errors

This metric provides the number of symbol errors on the port since the last collection.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% symbol errors, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Received Switch Relay Errors

This metric provides the number of switch relay errors.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Received Remote Physical Errors Delta

This metric provides the number of physical errors

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% received packets marked with the EBP delimiter, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Received Errors

This metric provides the number of received errors since the last collection.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% received packets containing an error, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Received Constraint Errors

This metric provides the number of received constraint errors received since the last collection.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% received packets discarded due to constraints, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Link Recovers

This metric provides the number of times the link error recovery process was completed successfully since the last collection.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% link recovers, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Link Integrity Errors

This metric provides the number of link integrity errors, that is, the number of errors on the local link.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% link integrity errors, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Link Downed

This metric provides the number of link-down errors.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% link downed status, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Execution Buffer Overrun Errors

This metric provides the number of buffer overrun errors since the last collection.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% excessive buffer overruns, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Port ID

This metric provides the port ID.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Network Ports InfiniBand Performance

This metrics in this category provide information about the network ports InfiniBand performance.

Supported Width

This metric provides the width supported by the link.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Supported Speed

The metric provides the speed supported by the link.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Remote Port LID

This metric provides the LID of the remote port.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Port State

This metric provides the state of the port.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Physical Link State

This metric provides the physical link state. The physical link state is 0 if the port is in a polling or disabled state.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Local Port LID

This metric provides the Local Identifier (LID) of the local port.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Link State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Link Degraded

This metric indicates whether the link is degraded.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	1	Port %PortId% is running in degraded mode.

Port Polling

This metric indicates whether the port is in a polling state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	1	Port %PortId% is polling for peer port. This could happen when the cable is unplugged from one of the ends or the other end port is disabled.

Port Disabled

This metric indicates whether the port is disabled.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	1	Port %PortId% is disabled.

Gateway Port Link Mode

This metric provides the gateway port link mode.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Enabled Width

This metric provides the width of the port.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Enabled Speed

This metric provides the speed of the node.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Cable State

This metric provides the state of the cable connection

Target Version	Collection Frequency
All versions	Every 5 Minutes

Active Width

This metric provides the width of the link since the last collection.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Active Speed

This metric provides the active speed of the link since the last collection.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Port ID

This metric provides the port ID.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Network Ports InfiniBand Traffic Statistics

This metrics in this category provide information about the network ports InfiniBand traffic statistics.

Sent Packets

This metric provides the number of packets sent since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Sent Bytes

This metric provides the number of bytes sent since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Sent Unicast Packets

This metric provides the number of unicast packets sent since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Received Unicast Packets

This metric provides the number of unicast packets received since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Received Packets

This metric provides the number of packets received since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Received Bytes

This metric provides the number of bytes received.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Sent Multicast Packets

This metric provides the number of multicast packets sent to the port since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Received Multicast Packets

This metric provides the number of multicast packets received by the port since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Port Id

This metric provides port ID.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Ports Performance

This metrics in this category provide information about the network ports performance.

vLAN IDs

This metric provides the vLAN ID.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total Octets Rate

This metric provides the rate of total octet bits.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Speed Units

This metric provides the measurement units for the speed.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Speed

This metric provides the speed of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Partition Keys

This metric provides the defined partition keys.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Unicast Packets

This metric provides the number of outbound unicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicast Packets

This metric provides the number of outbound multicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Discards

This metric provides the number of outbound discards.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Operational Status

This metric provides the operational status of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Duplex Mode

This metric provides the specific duplex mode of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

MTU

This metric provides the Maximum Transmission Unit (MTU) of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Unknown Protocol

This metric provides the number of inbound packets with an unknown protocol.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Unicast Packets

This metric provides the number of inbound unicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicast Packets

This metric provides the number of inbound multicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Discarded Packets

This metric provides the information about the number of discarded packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Admin State

This metric provides the information about the administrative state of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Power Supply Status

The metrics in this category provide information about the power supply status.

Power Supply Sensor Value

This metric provides the value of the power supply sensor.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	3	State of the power supply %KeyValue% is either warning or critical. Current state code is %value%. (state code values are mapped as 1=normal,2=warning,3=critical,4=shutdown,5=notPresent,6=notFunctioning)

Power Supply Status

This metric provides the status of the power supply.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Sensor Value Units

This metric provides the units for the sensor value.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Power Supply Name

This metric provides the name of the power supply.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Response

This metric category provides information about the status of the Systems Infrastructure Oracle InfiniBand Switch - ILOM target.

Status

This metric provides the status of the Systems Infrastructure Oracle InfiniBand Switch - ILOM target.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Minute	Not Defined	0	%target% is Down.

SSH Session Count

These metrics provide information about the number of active SSH sessions on the switch.

Number of SSH Sessions

This metric provides the information about the active number of SSH sessions on the switch at a given time.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All Versions	Every 1 Hour	Not Defined	Not Defined	The number of ssh sessions (%SshSessions%) is above WARNING (%warning_threshold%) or CRITICAL (%critical_threshold%) threshold.

Storage Summary

These metrics provide information about the filesystem utilization for the switch.

Identifier

This metric provides the information about the filesystem names for the switches.

Target Version	Collection Frequency
All Versions	Every 1 Hour

Free Space (MB)

This metric provides the information about the free available size for filesystem in Megabytes.

Target Version	Collection Frequency
All Versions	Every 1 Hour

Total Space (MB)

This metric provides the information about the total size of filesystem in Megabytes.

Target Version	Collection Frequency
All Versions	Every 1 Hour

Used Space (%)

This metric provides the information about the used percentage of the filesystem for the switch.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All Versions	Every 1 Hour	85	95	Used space (%Used%) is above WARNING (%warning_threshold%) or CRITICAL (%critical_threshold%) threshold.

Switch Aggregated System Status

The metrics in this category provide information about the status of the switch aggregated system.

Voltage State

This metric provides the voltage state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Temperature State

This metric provides the overall temperature state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Overall temperature state in system %KeyValue% is faulted.
All versions	Every 15 Minutes	Not Defined	CRITICAL	Overall temperature state in system %KeyValue% is critical.

Power State

This metric provides the overall power state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Overall power state in system %KeyValue% is faulted.

Power Redundancy

This metric provides the power redundancy state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Power redundancy state in system %KeyValue% is faulted.

Locator Light

This metric provides the locator light.

Target Version	Collection Frequency
All versions	Every 15 Minutes

InfiniBand State

This metric provides the InfiniBand state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	State of the InfiniBand module in system %KeyValue% is faulted.

Health Status

This metric provides the health status.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Overall state of the system %KeyValue% is faulted.

Cooling State

This metric provides the overall cooling state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Overall cooling state in system %KeyValue% is faulted.

Cooling Redundancy

This metric provides the cooling redundancy state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Cooling redundancy state in system %KeyValue% is faulted.

Cable State Change

This metric provides the change in cable connectivity.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Change in cable connectivity in system %KeyValue% is faulted.

Cable State

This metric provides the state of the cable connection

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Overall cable state in system %KeyValue% is faulted.

Switch Basic Status

The metrics in this category provide information about the switch basic status.

Status

This metric provides the status of the switch.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Powered On

This metric indicates whether the switch is powered on.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Locator Light On

This metric indicates whether the locator light is on.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Booted On

This metric indicates whether the switch is booted.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Switch Ports Statistics

The metrics in this category provide information about the switch ports statistics.

Outgoing throughput

This metric provides the outgoing throughput.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outgoing error rate

This metric provides the rate of outgoing errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total number of outgoing octets

This metric provides the total number of outgoing octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total number of outgoing errors

This metric provides the total number of outgoing errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total number of incoming octets

This metric provides the total number of incoming octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total number of incoming errors

This metric provides the total number of incoming errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Incoming throughput

This metric provides the incoming throughput.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Incoming error rate

This metric provides the rate of incoming errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Sensor Status

The metrics in this category provide information about the status of the sensor.

Value

This metric provides the value from the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Status

This metric provides the status of the sensor.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Hour	Not Defined	critical	Fault found in sensor %SensorId%

Read Value

This metric provides the read value of the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Component Identifier

This metric provides the ID of the hardware component.

Target Version	Collection Frequency
All versions	Every Hour

Sensor Identifier

This metric provides the ID of the sensor.

Target Version	Collection Frequency
All versions	Every Hour

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Systems Infrastructure Oracle InfiniBand Switch - SNMP

This chapter provides information about the Systems Infrastructure Oracle InfiniBand Switch - SNMP metrics. For each metric, it provides the following information:

- Description
- Metric table

The metric table can include some or all of the following: target version, default collection frequency, default warning threshold, default critical threshold, and alert text.

CPU Utilization

This metric provides information about CPU utilization percentage which is the aggregate utilization for all the CPU cores.

Idle CPU (%)

This metric provides the idle CPU percentage for the switch.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Kernel CPU Utilization (%)

This metric provides the kernel CPU utilization percentage for the switch.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All Versions	Every 15 Minutes	80	90	Kernel CPU Utilization (%KernelCPUUtilPercentage %) is above WARNING (%warning_threshold %) or CRITICAL (%critical_threshold %) threshold.

User CPU Utilization (%)

This metric provides the user CPU utilization percentage for the switch.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All Versions	Every 15 Minutes	80	90	User CPU Utilization (%UserCPUUtilPercentage%) is above WARNING (%warning_threshold%) or CRITICAL (%critical_threshold%) threshold.

Switch Aggregated System Status

The metrics in this category provide information about the status of the switch aggregated system.

Voltage State

This metric provides the voltage state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Cable State Change

This metric provides the change in cable connectivity.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Change in cable connectivity in system %KeyValue% is faulted.

Cable State

This metric provides the state of the cable connection

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minute	Not Defined	FAULTED	Overall cable state in system %KeyValue% is faulted.

Temperature State

This metric provides the overall temperature state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minute	Not Defined	FAULTED	Overall temperature state in system %KeyValue% is faulted.
All versions	Every 15 Minute	Not Defined	CRITICAL	Overall temperature state in system %KeyValue% is critical.

Power State

This metric provides the overall power state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Overall power state in system %KeyValue% is faulted.

Power Redundancy

This metric provides the power redundancy state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Power redundancy state in system %KeyValue% is faulted.

Locator Light

This metric provides the locator light.

Target Version	Collection Frequency
All versions	Every 15 Minutes

InfiniBand State

This metric provides the InfiniBand state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	State of the InfiniBand module in system %KeyValue% is faulted.

Health Status

This metric provides the health status.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Overall state of the system %KeyValue% is faulted.

Cooling Redundancy

This metric provides the cooling redundancy state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 MinuteS	Not Defined	FAULTED	Cooling redundancy state in system %KeyValue% is faulted.

Cooling State

This metric provides the overall cooling state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 MinuteS	Not Defined	FAULTED	Overall cooling state in system %KeyValue% is faulted.

Switch Basic Status

The metrics in this category provide information about the switch basic status.

Status

This metric provides the status of the switch.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Powered On

This metric indicates whether the switch is powered on.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Locator Light On

This metric indicates whether the locator light is on.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Booted On

This metric indicates whether the switch is booted.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Switch Ports Statistics

The metrics in this category provide information about the switch ports statistics.

Outgoing error rate

This metric provides the rate of outgoing errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total number of outgoing octets

This metric provides the total number of outgoing octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total number of outgoing errors

This metric provides the total number of outgoing errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total number of incoming octets

This metric provides the total number of incoming octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total number of incoming errors

This metric provides the total number of incoming errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Incoming throughput

This metric provides the incoming throughput.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Incoming error rate

This metric provides the rate of incoming errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Sensor Status

The metrics in this category provide information about the status of the sensor.

Value

This metric provides the value from the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Status

This metric provides the status of the sensor.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Hour	Not Defined	critical	Fault found in sensor %SensorId%.

Read Value

This metric provides the read value of the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Component Identifier

This metric provides the ID of the hardware component.

Target Version	Collection Frequency
All versions	Every Hour

Sensor Identifier

This metric provides the ID of the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Response

This metric category provides information about the status of the Systems Infrastructure Oracle InfiniBand Switch - SNMP target.

Status

This metric provides the status of the Systems Infrastructure Oracle InfiniBand Switch - SNMP target.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Minute	Not Defined	0	%target% is Down.

Power Supply Status

The metrics in this category provide information about the power supply status.

Power Supply Sensor Value

This metric provides the value of the power supply sensor.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	3	State of the power supply %KeyValue% is either warning or critical. Current state code is %value%. (state code values are mapped as 1=normal,2=warning,3=critical,4=shutdown,5=notPresent,6=notFunctioning)

Power Supply Status

This metric provides the status of the power supply.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Sensor Value Units

This metric provides the units for the sensor value.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Power Supply Name

This metric provides the name of the power supply.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Memory Utilization

This metric provides information about memory utilization for the switch.

Free Memory Size (MB)

This metric provides the information about free memory size available on the switch in Megabytes.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Free Memory (%)

This metric provides the information about free memory percentage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All Versions	Every 15 Minutes	15	5	Free Memory (%FreeMemoryPercentage%) is below the WARNING (%warning_threshold%) or CRITICAL (%critical_threshold%) threshold.

Total Memory Size (MB)

This metric provides the information about total memory size available on the switch in Megabytes.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Used Memory Size (MB)

This metric provides the information about used memory size for the switch in Megabytes.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Network Ports Performance

This metrics in this category provide information about the network ports performance.

vLAN IDs

This metric provides the vLAN ID.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total Octets Rate

This metric provides the rate of total octet bits.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Speed Units

This metric provides the measurement units for the speed.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Speed

This metric provides the speed of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Partition Keys

This metric provides the defined partition keys.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Unicast Packets

This metric provides the number of outbound unicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicast Packets

This metric provides the number of outbound multicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Discards

This metric provides the number of outbound discards.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Operational Status

This metric provides the operational status of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Duplex Mode

This metric provides the specific duplex mode of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

MTU

This metric provides the Maximum Transmission Unit (MTU) of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Unknown Protocol

This metric provides the number of inbound packets with an unknown protocol.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Unicast Packets

This metric provides the number of inbound unicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicast Packets

This metric provides the number of inbound multicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Discarded Packets

This metric provides the information about the number of discarded packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Admin State

This metric provides the information about the administrative state of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Ports InfiniBand Performance

This metrics in this category provide information about the network ports InfiniBand performance.

Supported Width

This metric provides the width supported by the link.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Supported Speed

The metric provides the speed supported by the link.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Remote Port LID

This metric provides the LID of the remote port.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Port State

This metric provides the state of the port.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Physical Link State

This metric provides the physical link state. The physical link state is 0 if the port is in a polling or disabled state.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Local Port LID

This metric provides the Local Identifier (LID) of the local port.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Link State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Link Degraded

This metric indicates whether the link is degraded.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	1	Port %PortId% is running in degraded mode.

Port Polling

This metric indicates whether the port is in a polling state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	1	Port %PortId% is polling for peer port. This could happen when the cable is unplugged from one of the ends or the other end port is disabled.

Port Disabled

This metric indicates whether the port is disabled.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	1	Port %PortId% is disabled.

Gateway Port Link Mode

This metric provides the gateway port link mode.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Enabled Width

This metric provides the width of the port.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Enabled Speed

This metric provides the speed of the node.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Cable State

This metric provides the state of the cable connection.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Active Width

This metric provides the width of the link since the last collection.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Active Speed

This metric provides the active speed of the link since the last collection.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Port ID

This metric provides the port ID.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Network Ports InfiniBand Traffic Statistics

This metrics in this category provide information about the network ports InfiniBand traffic statistics.

Sent Packets

This metric provides the number of packets sent since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Sent Bytes

This metric provides the number of bytes sent since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Sent Unicast Packets

This metric provides the number of unicast packets sent since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Received Unicast Packets

This metric provides the number of unicast packets received since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Received Packets

This metric provides the number of packets received since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Received Bytes

This metric provides the number of bytes received.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Sent Multicast Packets

This metric provides the number of multicast packets sent to the port since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Received Multicast Packets

This metric provides the number of multicast packets received by the port since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Port Id

This provides the port ID.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Ports InfiniBand Events

The metrics in this category provide information about the network ports InfiniBand events.

Symbol Error Increase

This metric provides the increase in symbol errors.

Address

This metric provides the address.

Error Counter

This metric provides the error counter.

Node Lid

This metric provides the local identifier (LID).

Node Index

This metric provides the node index.

Description

This metric provides a description of the event.

Link State

This metric provides the link state.

Error Rate Interval

This metric provides the error rate interval.

Counter Value

This metric provides the counter value.

Active Width

This metric provides the width of the link since the last collection.

Active Speed

This metric provides the active speed of the link since the last collection.

Port OID Index

This metric provides the index number of the port OID.

Network Ports InfiniBand Error Statistics

The metrics in this category provide information about the network ports InfiniBand error statistics.

Sent Discards

This metric provides the number sent discards that occurred since the last collection.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Sent Constraint Errors

This metric provides the number of sent constraint errors since the last collection.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% packets not transmitted due to constraints, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Virtual Lane 15 Packets Dropped

This metric provides the number of incoming VL15 packets dropped due to resource limitations on the port.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% incoming VL15 packets dropped, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Total errors

This metric provides the total number of errors.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	10	Not Defined	Port %PortId% has %value% total errors, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Symbol Errors

This metric provides the number of symbol errors on the port since the last collection.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% symbol errors, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Received Switch Relay Errors

This metric provides the number of switch relay errors.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Received Remote Physical Errors Delta

This metric provides the number of physical errors

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% received packets marked with the EBP delimiter, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Received Errors

This metric provides the number of received errors since the last collection.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% received packets containing an error, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Received Constraint Errors

This metric provides the number of received constraint errors received since the last collection.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% received packets discarded due to constraints, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Link Recovers

This metric provides the number of times the link error recovery process was completed successfully since the last collection.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% link recovers, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Link Integrity Errors

This metric provides the number of link integrity errors, that is, the number of errors on the local link.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% link integrity errors, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Link Downed

This metric provides the number of link-down errors.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% link downed status, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Execution Buffer Overrun Errors

This metric provides the number of buffer overrun errors since the last collection.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% excessive buffer overruns, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Port ID

This metric provides the port ID.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Network Ports Ethernet Events

The metrics in this category provide information about the network ports ethernet events.

Operational Status

This metric provides the operational status of the port.

Admin State

This metric provides the information about the administrative state of the link.

Port OID Index

This metric provides the index number of the port OID.

Network Interfaces Performance

The metrics in this category provide information about the network interfaces performance.

Status

This metric provides the status of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Overruns

This metric provides the number of outbound overruns since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Carrier Errors

This metric provides the number of outbound carrier errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Overruns

This metric provides the number of overruns since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Frame Errors

This metric provides the number of frame errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Interfaces Bandwidth

The metrics in this category provide information about the network interfaces bandwidth.

Output Errors Percentage

This metric provides the percentage of output errors on the interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Output Average

This metric provides the average input operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Input/Output Errors Percentage

This metric provides the percentage of input/output errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Input Errors Percentage

This metric provide the percentage of input errors on the interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Input Average

This metric provides the average input operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Bandwidth (KB/sec)

This metric provides the amount of bandwidth used since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Percentage Activity Average

This metric provides the average percentage of activity over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Input/Output Average

This metric provides the average input/output operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions Percentage

This metric provides the total network collisions (in percentage) of the network interface since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Datalinks Performance

The metrics in this category provide information about the Network Datalinks performance.

Status

This metric provides the status of the datalink.

Target Version	Collection Frequency
All versions	Every 15 Minutes

State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicasts

This metric provides the number of outbound multicasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicast Octets

This metric provides the number of outbound multicast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Dropped Octets

This metric provides the number of outbound dropped octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Broadcasts

This metric provides the number of outbound broadcasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Broadcast Octets

This metric provides the number of outbound broadcast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicasts

This metric provides the number of inbound multicasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicast Octets

This metric provides the number of inbound multicast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Dropped Octets

This metric provides the number of inbound dropped octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Broadcasts

This metric provides the number of inbound broadcasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Broadcast Octets

This metric provides the number of inbound broadcast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Datalink Name

This metric provides the datalink name.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Component State

The metrics in this category provide information about the component state.

Error Detail

The metric provides information about errors.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component State

This metric provides the state of the component.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 24 Hours	Not Defined	REMOVED	Fault found in component %ComponentId%

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

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Systems Infrastructure Cisco Switch - SNMP

This chapter provides information about the Systems Infrastructure Cisco Switch - SNMP metrics. For each metric, it provides the following information:

- Description
- Metric table

The metric table can include some or all of the following: target version, default collection frequency, default warning threshold, default critical threshold, and alert text.

Memory Utilization

This metric provides information about memory utilization for the switch. This metric is available only for the Cisco switches running NX-OS.

Free Memory Size (MB)

This metric provides the information about free memory size available on the switch in Megabytes.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Free Memory (%)

This metric provides the information about free memory percentage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All Versions	Every 15 Minutes	15	5	Free Memory (%FreeMemoryPercentage%) is below the WARNING (%warning_threshold%) or CRITICAL (%critical_threshold%) threshold.

Total Memory Size (MB)

This metric provides the information about total memory size available on the switch in Megabytes.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Used Memory Size (MB)

This metric provides the information about used memory size for the switch in Megabytes.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Network Ports Performance

This metrics in this category provide information about the network ports performance.

vLAN IDs

This metric provides the vLAN ID.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total Octets Rate

This metric provides the rate of total octet bits.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Speed Units

This metric provides the measurement units for the speed.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Speed

This metric provides the speed of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Partition Keys

This metric provides the defined partition keys.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Unicast Packets

This metric provides the number of outbound unicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicast Packets

This metric provides the number of outbound multicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Discards

This metric provides the number of outbound discards.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Operational Status

This metric provides the operational status of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Duplex Mode

This metric provides the specific duplex mode of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

MTU

This metric provides the Maximum Transmission Unit (MTU) of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Unknown Protocol

This metric provides the number of inbound packets with an unknown protocol.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Unicast Packets

This metric provides the number of inbound unicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicast Packets

This metric provides the number of inbound multicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Discarded Packets

This metric provides the information about the number of discarded packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Admin State

This metric provides the information about the administrative state of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Ports InfiniBand Performance

This metrics in this category provide information about the network ports InfiniBand performance.

Supported Width

This metric provides the width supported by the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Supported Speed

The metric provides the speed supported by the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Remote Port LID

This metric provides the LID of the remote port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Port State

This metric provides the state of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Physical Link State

This metric provides the physical link state. The physical link state is 0 if the port is in a polling or disabled state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Local Port LID

This metric provides the Local Identifier (LID) of the local port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Link State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Link Degraded

This metric indicates whether the link is degraded.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	1	Port %PortId% is running in degraded mode.

Port Polling

This metric indicates whether the port is in a polling state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	1	Port %PortId% is polling for peer port. This could happen when the cable is unplugged from one of the ends or the other end port is disabled.

Port Disabled

This metric indicates whether the port is disabled.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	1	Port %PortId% is disabled.

Gateway Port Link Mode

This metric provides the gateway port link mode.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Enabled Width

This metric provides the width of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Enabled Speed

This metric provides the speed of the node.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Cable State

This metric provides the state of the cable connection

Target Version	Collection Frequency
All versions	Every 15 Minutes

Active Width

This metric provides the width of the link since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Active Speed

This metric provides the active speed of the link since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Port ID

This metric provides the port ID.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Ports InfiniBand Traffic Statistics

This metrics in this category provide information about the network ports InfiniBand traffic statistics.

Sent Packets

This metric provides the number of packets sent since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Sent Bytes

This metric provides the number of bytes sent since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Sent Unicast Packets

This metric provides the number of unicast packets sent since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Received Unicast Packets

This metric provides the number of unicast packets received since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Received Packets

This metric provides the number of packets received since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Received Bytes

This metric provides the number of bytes received.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Sent Multicast Packets

This metric provides the number of multicast packets sent to the port since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Received Multicast Packets

This metric provides the number of multicast packets received by the port since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Port Id

This metric provides the port ID.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Ports InfiniBand Error Statistics

The metrics in this category provide information about the network ports InfiniBand error statistics.

Sent Discards

This metric provides the number sent discards that occurred since the last collection.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Sent Constraint Errors

This metric provides the number of sent constraint errors since the last collection.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% packets not transmitted due to constraints, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Virtual Lane 15 Packets Dropped

This metric provides the number of incoming VL15 packets dropped due to resource limitations on the port.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% incoming VL15 packets dropped, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Total errors

This metric provides the total number of errors.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	10	Not Defined	Port %PortId% has %value% total errors, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Symbol Errors

This metric provides the number of symbol errors on the port since the last collection.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% symbol errors, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Received Switch Relay Errors

This metric provides the number of switch relay errors.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Received Remote Physical Errors Delta

This metric provides the number of physical errors

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% received packets marked with the EBP delimiter, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Received Errors

This metric provides the number of received errors since the last collection.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% received packets containing an error, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Received Constraint Errors

This metric provides the number of received constraint errors received since the last collection.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% received packets discarded due to constraints, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Link Recovers

This metric provides the number of times the link error recovery process was completed successfully since the last collection.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% link recovers, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Link Integrity Errors

This metric provides the number of link integrity errors, that is, the number of errors on the local link.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% link integrity errors, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Link Downed

This metric provides the number of link-down errors.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% link downed status, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Execution Buffer Overrun Errors

This metric provides the number of buffer overrun errors since the last collection.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% excessive buffer overruns, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Port ID

This metric provides the port ID.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Network Ports Ethernet Events

The metrics in this category provide information about the network ports ethernet events.

Operational Status

This metric provides the operational status of the port.

Admin State

This metric provides the information about the administrative state of the link.

Port OID Index

This metric provides the index number of the port OID.

Network Interfaces Performance

The metrics in this category provide information about the network interfaces performance.

Status

This metric provides the status of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Overruns

This metric provides the number of outbound overruns since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Carrier Errors

This metric provides the number of outbound carrier errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Overruns

This metric provides the number of overruns since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Frame Errors

This metric provides the number of frame errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Interfaces Bandwidth

The metrics in this category provide information about the network interfaces bandwidth.

Output Errors Percentage

This metric provides the percentage of output errors on the interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Output Average

This metric provides the average input operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Input/Output Errors Percentage

This metric provides the percentage of input/output errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Input Errors Percentage

This metric provide the percentage of input errors on the interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Input Average

This metric provides the average input operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Bandwidth (KB/sec)

This metric provides the amount of bandwidth used since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Percentage Activity Average

This metric provides the average percentage of activity over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Input/Output Average

This metric provides the average input/output operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions Percentage

This metric provides the total network collisions (in percentage) of the network interface since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Datalinks Performance

The metrics in this category provide information about the Network Datalinks performance.

Status

This metric provides the status of the datalink.

Target Version	Collection Frequency
All versions	Every 15 Minutes

State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicasts

This metric provides the number of outbound multicasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicast Octets

This metric provides the number of outbound multicast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Dropped Octets

This metric provides the number of outbound dropped octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Broadcasts

This metric provides the number of outbound broadcasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Broadcast Octets

This metric provides the number of outbound broadcast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicasts

This metric provides the number of inbound multicasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicast Octets

This metric provides the number of inbound multicast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Dropped Octets

This metric provides the number of inbound dropped octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Broadcasts

This metric provides the number of inbound broadcasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Broadcast Octets

This metric provides the number of inbound broadcast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Datalink Name

This metric provides the datalink name.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Component State

The metrics in this category provide information about the component state.

Error Detail

The metric provides information about errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Component State

This metric provides the state of the component.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 24 Hours	Not Defined	Removed	Fault found in component %ComponentId%

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Priority Flow Control If Priority Table

This metric provides information about the priority flow control information for the PFC priority of each interface on the Cisco switch.

Name

This metric provides the information about the interface name.

Target Version	Collection Frequency
All Versions	Every 5 Minutes

Priority

This metric provides the information about the priority for the PFC capable interface.

Target Version	Collection Frequency
All Versions	Every 5 Minutes

Delta Indications

This metric provides the information about the delta number of indications for the interface.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All Versions	Every 5 Minutes	Not Defined	Not Defined	Not defined. It is Empty threshold.

Delta Requests

This metric provides the information about the delta number of requests for the interface.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All Versions	Every 5 Minutes	Not Defined	Not Defined	Not defined. It is Empty threshold.

Indications

This metric provides the information about the number of indications for the interface.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All Versions	Every 5 Minutes	Not Defined	Not Defined	Not defined. It is Empty threshold.

Requests

This metric provides the information about the number of requests for the interface.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All Versions	Every 5 Minutes	Not Defined	Not Defined	Not defined. It is Empty threshold.

Storage Summary

These metrics provide information about the device utilization for the switch. These metrics are available only for the Cisco switches running NX-OS.

Identifier

This metric provides the information about the device names for the ROCE switches.

Target Version	Collection Frequency
All Versions	Every 1 Hour

Free Space (MB)

This metric provides the information about the free available size for the device in Megabytes.

Target Version	Collection Frequency
All Versions	Every 1 Hour

Total Space (MB)

This metric provides the information about the total size of the device in Megabytes.

Target Version	Collection Frequency
All Versions	Every 1 Hour

Used Space (%)

This metric provides the information about the used percentage of the device for the switches.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All Versions	Every 1 Hour	85	95	Used space (%Used%) is above WARNING (%warning_threshold%) or CRITICAL (%critical_threshold%) threshold.

Switch Aggregated System Status

The metrics in this category provide information about the status of the switch aggregated system.

Voltage State

This metric provides the voltage state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Temperature State

This metric provides the overall temperature state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Overall temperature state in system %KeyValue% is faulted.
All versions	Every 15 Minutes	Not Defined	CRITICAL	Overall temperature state in system %KeyValue% is critical.

Power State

This metric provides the overall power state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Overall power state in system %KeyValue% is faulted.

Power Redundancy

This metric provides the power redundancy state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Power redundancy state in system %KeyValue% is faulted.

Locator Light

This metric provides the locator light.

Target Version	Collection Frequency
All versions	Every 15 Minutes

InfiniBand State

This metric provides the InfiniBand state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	State of the InfiniBand module in system %KeyValue% is faulted.

Health Status

This metric provides the health status.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Overall state of the system %KeyValue% is faulted.

Cooling State

This metric provides the overall cooling state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Overall cooling state in system %KeyValue% is faulted.

Cooling Redundancy

This metric provides the cooling redundancy state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Cooling redundancy state in system %KeyValue% is faulted.

Cable State Change

This metric provides the change in cable connectivity.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Change in cable connectivity in system %KeyValue% is faulted.

Cable State

This metric provides the state of the cable connection

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Overall cable state in system %KeyValue% is faulted.

Switch Basic Status

The metrics in this category provide information about the switch basic status.

Status

This metric provides the status of the switch.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Powered On

This metric indicates whether the switch is powered on.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Locator Light On

This metric indicates whether the locator light is on.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Booted On

This metric indicates whether the switch is booted.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Switch Ports Statistics

The metrics in this category provide information about the switch ports statistics.

Outgoing throughput

This metric provides the outgoing throughput.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outgoing error rate

This metric provides the rate of outgoing errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total number of outgoing octets

This metric provides the total number of outgoing octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total number of outgoing errors

This metric provides the total number of outgoing errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total number of incoming octets

This metric provides the total number of incoming octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total number of incoming errors

This metric provides the total number of incoming errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Incoming throughput

This metric provides the incoming throughput.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Incoming error rate

This metric provides the rate of incoming errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Sensor Status

The metrics in this category provide information about the status of the sensor.

Value

This metric provides the value from the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Status

This metric provides the status of the sensor.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Hour	Not Defined	critical	Fault found in sensor %SensorId%

Read Value

This metric provides the read value of the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Component Identifier

This metric provides the ID of the hardware component.

Target Version	Collection Frequency
All versions	Every Hour

Sensor Identifier

This metric provides the ID of the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Response

This metric category provides information about the status of the Systems Infrastructure Cisco Switch - SNMP target.

Status

This metric provides the status of the Systems Infrastructure Cisco Switch - SNMP target.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Minute	Not Defined	0	%target% is Down.

Power Supply Status

The metrics in this category provide information about the power supply status.

Power Supply Sensor Value

This metric provides the value of the power supply sensor.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	3	State of the power supply %KeyValue% is either warning or critical. Current state code is %value%. (state code values are mapped as 1=normal,2=warning,3=critical,4=shutdown,5=notPresent,6=notFunctioning)

Power Supply Status

This metric provides the status of the power supply.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Sensor Value Units

This metric provides the units for the sensor value.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Power Supply Name

This metric provides the name of the power supply.

Target Version	Collection Frequency
All versions	Every 5 Minutes

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Systems Infrastructure Cisco Switch - IOS

This chapter provides information about the Systems Infrastructure Cisco Switch - IOS metrics. For each metric, it provides the following information:

- Description
- Metric table

The metric table can include some or all of the following: target version, default collection frequency, default warning threshold, default critical threshold, and alert text.

Component State

The metrics in this category provide information about the component state.

Error Detail

The metric provides information about errors.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component State

This metric provides the state of the component.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 24 Hours	Not Defined	REMOVED	Fault found in component %ComponentId%

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

CPU Utilization

This metric provides information about CPU utilization percentage which is the aggregate utilization for all the CPU cores. This metric is available only for the Cisco switches running NX-OS.

Idle CPU (%)

This metric provides the idle CPU percentage for the switch.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Kernel CPU Utilization (%)

This metric provides the kernel CPU utilization percentage for the switch.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All Versions	Every 15 Minutes	80	90	Kernel CPU Utilization (%KernelCPUUtilPercentage %) is above WARNING (%warning_threshold %) or CRITICAL (%critical_threshold %) threshold.

User CPU Utilization (%)

This metric provides the user CPU utilization percentage for the switch.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All Versions	Every 15 Minutes	80	90	User CPU Utilization (%UserCPUUtilPercentage%) is above WARNING (%warning_threshold%) or CRITICAL (%critical_threshold%) threshold.

Memory Utilization

This metric provides information about memory utilization for the switch. This metric is available only for the Cisco switches running NX-OS.

Free Memory Size (MB)

This metric provides the information about free memory size available on the switch in Megabytes.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Free Memory (%)

This metric provides the information about free memory percentage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All Versions	Every 15 Minutes	15	5	Free Memory (%FreeMemoryPercentage%) is below the WARNING (%warning_threshold%) or CRITICAL (%critical_threshold%) threshold.

Total Memory Size (MB)

This metric provides the information about total memory size available on the switch in Megabytes.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Used Memory Size (MB)

This metric provides the information about used memory size for the switch in Megabytes.

Target Version	Collection Frequency
All Versions	Every 15 Minutes

Network Datalinks Performance

The metrics in this category provide information about the Network Datalinks performance.

Status

This metric provides the status of the datalink.

Target Version	Collection Frequency
All versions	Every 15 Minutes

State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicasts

This metric provides the number of outbound multicasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicast Octets

This metric provides the number of outbound multicast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Dropped Octets

This metric provides the number of outbound dropped octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Broadcasts

This metric provides the number of outbound broadcasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Broadcast Octets

This metric provides the number of outbound broadcast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicasts

This metric provides the number of inbound multicasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Dropped Octets

This metric provides the number of inbound dropped octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Broadcasts

This metric provides the number of inbound broadcasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Broadcast Octets

This metric provides the number of inbound broadcast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Datalink Name

This metric provides the datalink name.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Interfaces Bandwidth

The metrics in this category provide information about the network interfaces bandwidth.

Output Errors Percentage

This metric provides the percentage of output errors on the interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Output Average

This metric provides the average input operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Input/Output Errors Percentage

This metric provides the percentage of input/output errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Input Errors Percentage

This metric provide the percentage of input errors on the interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Input Average

This metric provides the average input operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Bandwidth (KB/sec)

This metric provides the amount of bandwidth used since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Percentage Activity Average

This metric provides the average percentage of activity over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Input/Output Average

This metric provides the average input/output operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions Percentage

This metric provides the total network collisions (in percentage) of the network interface since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Interfaces Performance

The metrics in this category provide information about the network interfaces performance.

Status

This metric provides the status of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Overruns

This metric provides the number of outbound overruns since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Carrier Errors

This metric provides the number of outbound carrier errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Overruns

This metric provides the number of overruns since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Frame Errors

This metric provides the number of frame errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Ports InfiniBand Error Statistics

The metrics in this category provide information about the network ports InfiniBand error statistics.

Sent Discards

This metric provides the number sent discards that occurred since the last collection.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Sent Constraint Errors

This metric provides the number of sent constraint errors since the last collection.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% packets not transmitted due to constraints, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Virtual Lane 15 Packets Dropped

This metric provides the number of incoming VL15 packets dropped due to resource limitations on the port.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% incoming VL15 packets dropped, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Total errors

This metric provides the total number of errors.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	10	Not Defined	Port %PortId% has %value% total errors, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Symbol Errors

This metric provides the number of symbol errors on the port since the last collection.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% symbol errors, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Received Switch Relay Errors

This metric provides the number of switch relay errors.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Received Remote Physical Errors Delta

This metric provides the number of physical errors

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% received packets marked with the EBP delimiter, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Received Errors

This metric provides the number of received errors since the last collection.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% received packets containing an error, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Received Constraint Errors

This metric provides the number of received constraint errors received since the last collection.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% received packets discarded due to constraints, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Link Recovers

This metric provides the number of times the link error recovery process was completed successfully since the last collection.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% link recovers, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Link Integrity Errors

This metric provides the number of link integrity errors, that is, the number of errors on the local link.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% link integrity errors, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Link Downed

This metric provides the number of link-down errors.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% link downed status, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Execution Buffer Overrun Errors

This metric provides the number of buffer overrun errors since the last collection.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% has %value% excessive buffer overruns, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold.

Port ID

This metric provides the port ID.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Network Ports InfiniBand Traffic Statistics

This metrics in this category provide information about the network ports InfiniBand traffic statistics.

Sent Packets

This metric provides the number of packets sent since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Sent Bytes

This metric provides the number of bytes sent since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Sent Unicast Packets

This metric provides the number of unicast packets sent since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Received Unicast Packets

This metric provides the number of unicast packets received since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Received Packets

This metric provides the number of packets received since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Received Bytes

This metric provides the number of bytes received.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Sent Multicast Packets

This metric provides the number of multicast packets sent to the port since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Received Multicast Packets

This metric provides the number of multicast packets received by the port since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Port Id

This metric provides the port ID.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Ports InfiniBand Performance

This metrics in this category provide information about the network ports InfiniBand performance.

Supported Width

This metric provides the width supported by the link.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Supported Speed

The metric provides the speed supported by the link.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Remote Port LID

This metric provides the LID of the remote port.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Port State

This metric provides the state of the port.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Physical Link State

This metric provides the physical link state. The physical link state is 0 if the port is in a polling or disabled state.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Local Port LID

This metric provides the Local Identifier (LID) of the local port.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Link State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Link Degraded

This metric indicates whether the link is degraded.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% is running in degraded mode.

Port Polling

This metric indicates whether the port is in a polling state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% is polling for peer port. This could happen when the cable is unplugged from one of the ends or the other end port is disabled.

Port Disabled

This metric indicates whether the port is disabled.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	Not Defined	Port %PortId% is disabled.

Gateway Port Link Mode

This metric provides the gateway port link mode.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Enabled Width

This metric provides the width of the port.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Enabled Speed

This metric provides the speed of the node.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Cable State

This metric provides the state of the cable connection

Target Version	Collection Frequency
All versions	Every 5 Minutes

Active Width

This metric provides the width of the link since the last collection.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Active Speed

This metric provides the active speed of the link since the last collection.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Port ID

This metric provides the port ID.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Network Ports Performance

This metrics in this category provide information about the network ports performance.

vLAN IDs

This metric provides the vLAN ID.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total Octets Rate

This metric provides the rate of total octet bits.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Speed Units

This metric provides the measurement units for the speed.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Speed

This metric provides the speed of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Partition Keys

This metric provides the defined partition keys.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Unicast Packets

This metric provides the number of outbound unicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicast Packets

This metric provides the number of outbound multicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Discards

This metric provides the number of outbound discards.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Operational Status

This metric provides the operational status of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Duplex Mode

This metric provides the specific duplex mode of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

MTU

This metric provides the Maximum Transmission Unit (MTU) of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Unknown Protocol

This metric provides the number of inbound packets with an unknown protocol.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Unicast Packets

This metric provides the number of inbound unicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicast Packets

This metric provides the number of inbound multicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Discarded Packets

This metric provides the information about the number of discarded packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Admin State

This metric provides the information about the administrative state of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Power Supply Status

The metrics in this category provide information about the power supply status.

Power Supply Sensor Value

This metric provides the value of the power supply sensor.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 5 Minutes	Not Defined	3	State of the power supply %KeyValue% is either warning or critical. Current state code is %value%. (state code values are mapped as 1=normal,2=warning,3=critical,4=shutdown,5=notPresent,6=notFunctioning)

Power Supply Status

This metric provides the status of the power supply.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Sensor Value Units

This metric provides the units for the sensor value.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Power Supply Name

This metric provides the name of the power supply.

Target Version	Collection Frequency
All versions	Every 5 Minutes

Response

This metric category provides information about the status of the Systems Infrastructure Cisco Switch - IOS target.

Status

This metric provides the status of the Systems Infrastructure Cisco Switch - IOS target.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Minute	Not Defined	0	%target% is Down.

Sensor Status

The metrics in this category provide information about the status of the sensor.

Value

This metric provides the value from the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Status

This metric provides the status of the sensor.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Hour	Not Defined	critical	Fault found in sensor %SensorId%

Read Value

This metric provides the read value of the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Component Identifier

This metric provides the ID of the hardware component.

Target Version	Collection Frequency
All versions	Every Hour

Sensor Identifier

This metric provides the ID of the sensor.

Target Version	Collection Frequency
All versions	Every Hour

SSH Session Count

These metrics provide information about the number of active SSH sessions on the switch. These metrics are available only for the Cisco switches running NX-OS.

Number of SSH Sessions

This metric provides the information about the active number of SSH sessions on the switch at a given time.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All Versions	Every 1 Hour	Not Defined	Not Defined	The number of ssh sessions (%SshSessions%) is above WARNING (%warning_threshold%) or CRITICAL (%critical_threshold%) threshold.

Storage Summary

These metrics provide information about the device utilization for the switch. These metrics are available only for the Cisco switches running NX-OS.

Identifier

This metric provides the information about the device names for the ROCE switches.

Target Version	Collection Frequency
All Versions	Every 1 Hour

Free Space (MB)

This metric provides the information about the free available size for the device in Megabytes.

Target Version	Collection Frequency
All Versions	Every 1 Hour

Total Space (MB)

This metric provides the information about the total size of the device in Megabytes.

Target Version	Collection Frequency
All Versions	Every 1 Hour

Used Space (%)

This metric provides the information about the used percentage of the device for the switches.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All Versions	Every 1 Hour	85	95	Used space (%Used%) is above WARNING (%warning_threshold%) or CRITICAL (%critical_threshold%) threshold.

Switch Ports Statistics

The metrics in this category provide information about the switch ports statistics.

Outgoing throughput

This metric provides the outgoing throughput.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outgoing error rate

This metric provides the rate of outgoing errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total number of outgoing octets

This metric provides the total number of outgoing octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total number of outgoing errors

This metric provides the total number of outgoing errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total number of incoming octets

This metric provides the total number of incoming octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total number of incoming errors

This metric provides the total number of incoming errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Incoming throughput

This metric provides the incoming throughput.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Incoming error rate

This metric provides the rate of incoming errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Switch Basic Status

The metrics in this category provide information about the switch basic status.

Status

This metric provides the status of the switch.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Powered On

This metric indicates whether the switch is powered on.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Locator Light On

This metric indicates whether the locator light is on.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Booted On

This metric indicates whether the switch is booted.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Switch Aggregated System Status

The metrics in this category provide information about the status of the switch aggregated system.

Voltage State

This metric provides the voltage state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Temperature State

This metric provides the overall temperature state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Overall temperature state in system %KeyValue% is faulted.
All versions	Every 15 Minutes	Not Defined	CRITICAL	Overall temperature state in system %KeyValue% is critical.

Power State

This metric provides the overall power state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Overall power state in system %KeyValue% is faulted.

Power Redundancy

This metric provides the power redundancy state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Power redundancy state in system %KeyValue% is faulted.

Locator Light

This metric provides the locator light.

Target Version	Collection Frequency
All versions	Every 15 Minutes

InfiniBand State

This metric provides the InfiniBand state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	State of the InfiniBand module in system %KeyValue% is faulted.

Health Status

This metric provides the health status.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Overall state of the system %KeyValue% is faulted.

Cooling State

This metric provides the overall cooling state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Overall cooling state in system %KeyValue% is faulted.

Cooling Redundancy

This metric provides the cooling redundancy state.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Cooling redundancy state in system %KeyValue% is faulted.

Cable State Change

This metric provides the change in cable connectivity.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Change in cable connectivity in system %KeyValue% is faulted.

Cable State

This metric provides the state of the cable connection

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	FAULTED	Overall cable state in system %KeyValue% is faulted.

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Systems Infrastructure Server - OS Access Point

This chapter provides information about the Systems Infrastructure Server - OS Access Point metrics. For each metric, it provides the following information:

- Description
- Metric table

The metric table can include some or all of the following: target version, default collection frequency, default warning threshold, default critical threshold, and alert text.

Component Faults

The metrics in this category provide information about component faults.

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Name

This metric provides the name of the component that is the source of the trap.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Part Number

This metric provides the part number of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Serial Number

This metric provides the serial number of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component subsystem

This metric provides the component subsystem name.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem Description

This metric provides the description of the open problem.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem Probability

This metric provides the probability of the open problem.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem Reference Document

This metric provides the URL to an Oracle Support reference document.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem Status

This metric provides the status of the problem associated with the component.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 24 Hours	Not Defined	1	Fault found in %ComponentName% @ %ProblemOccurrenceTime%. Description: %OpenProblemDescription%, Probability: %OpenProblemProbability%, PartNumber: %ComponentPartNumber%, SerialNumber: %ComponentSerialNumber%

Open Problem UUID

This metric provides the universally unique identifier (UUID) of the open problem.

Target Version	Collection Frequency
All versions	Every 24 Hours

Problem Occurrence Time

This metric provides the time that the problem occurred.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component State

The metrics in this category provide information about the component state.

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component State

This metric provides the state of the component.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 24 Hours	Not Defined	REMOVED	Fault found in component %ComponentId%

Error Detail

The metric provides information about errors.

Target Version	Collection Frequency
All versions	Every 24 Hours

Fan Usage

The metrics in this category provide information about fan usage.

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every Hour

Real Percentage

This metric provides the real percentage used.

Target Version	Collection Frequency
All versions	Every Hour

ILOM SNMP Component Trap

The metrics in this category provide information about the ILOM SNMP component trap.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Product Name

This metric provides the product name

Fault UUID

This metric provides the UUID that was assigned to this fault.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Component fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Chassis Id

This metric provides the chassis serial number.

Additional Info

This metric provides additional information about the component.

Component Name

This metric provides the name of the component that is the source of the trap.

ILOM SNMP Component Status Trap

The metrics in this category provide information about the ILOM SNMP component status trap.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Disable Reason

This metric provides a reason as to why the component is disabled.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	CRITICAL	%ComponentName% with Chassis %ChassisId% disabled. Reason :%DisableReason%

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

Fault Status

This metric provides the status of the fault.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Drive Controller Trap

The metrics in this category provide information about ILOM SNMP drive controller traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Probable Cause

This metric provides the probable cause for the drive controller error.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	CRITICAL	DriveController fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%. ProbableCause=%DriveControllerProbableCause%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Electrical Current Trap

The metrics in this category provide information about the ILOM SNMP electrical current traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Product Name

This metric provides the product name

Sensor Value

This metric provides the threshold sensor's reading at the time the trap was generated.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Threshold Type

This metric identifies the threshold type that the sensor is reporting on.

Threshold Value

This metric provides the threshold setting that has been crossed.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	ElectricalCurrent Threshold fault in %ComponentName%. Threshold of %ThresholdType% with %ThresholdValue%. SensorValue is %SensorValue% .

ILOM SNMP Fan Speed Trap

The metrics in this category provide information about the ILOM SNMP fan speed trap.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Product Name

This metric provides the product name

Sensor Value

This metric provides the threshold sensor's reading at the time the trap was generated.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Threshold Type

This metric identifies the threshold type that the sensor is reporting on.

Threshold Value

This metric provides the threshold setting that has been crossed.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	FanSpeed Threshold fault in %ComponentName%. Threshold of %ThresholdType% with %ThresholdValue%. SensorValue is %SensorValue%.

ILOM SNMP Fan Trap

The metrics in this category provide information about ILOM SNMP fan traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Fan fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Fault Diagnosed Trap

The metrics in this category provide information about the ILOM SNMP fault diagnosed trap.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

DiagEntity

This metric describes the entity that diagnosed the fault.

EventTime

This metric provides timestamp for when the fault occurred.

FaultDescription

This metric provides the description of the fault.

FaultMessageID

This metric provides a message ID, which you can use to get additional information about the problem from My Oracle Support.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	FaultDiagnosed in %Hostname% with UUID %FaultUUID%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Hostname

This metric provides the host name.

ka_url

This metric provides a URL to a knowledge article relating to the issue.

ProductManufacturer

This metric provides the name of the product manufacturer.

ProductName

This metric provides the product name.

ProductSn

This metric provides the product serial number.

SuspectCnt

This metric provides the number of suspected faults diagnosed as the cause of the reported hardware errors.

SuspectFruChassisId

This metric provides the chassis serial number of a Field Replaceable Unit (FRU) suspected of causing a fault.

Suspect FRU Fault Certainty

This metric provides the probability that the suspected FRU is the source of the problem.

SuspectFruFaultClass

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

SuspectFruLocation

This metric provides the location of the suspected FRU.

SuspectFruManufacturer

This metric provides the name of the manufacturer of the FRU suspected of causing a fault.

SuspectFruName

This metric provides the name of the FRU suspected of causing a fault.

SuspectFruPn

This metric provides the part number of the FRU suspected of causing a fault.

SuspectFruRevision

This metric provides the revision level of the FRU suspected of causing a fault.

SuspectFruSn

This metric provides the serial number of the FRU suspected of causing a fault.

Suspect FRU Status

This metric provides the status of the FRU suspected of causing a fault.

SystemIdentifier

This metric provides the system ID.

ILOM SNMP FRU Trap

The metrics in this category provide information about the ILOM SNMP Field Replacement Unit (FRU) traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Chassis Id

This metric provides the chassis serial number.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	CRITICAL	FRU %ComponentName% with Chassis %ChassisId% has been removed.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP HardDrive Trap

The metrics in this category provide information about the ILOM SNMP hard drive traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Hard Drive Fault

This metric provides information about the hard drive fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	HardDrive fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Hard Drive Status

This metric provides the status of the hard drive.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	HardDrive status update for %ComponentName%.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP HAState Change Trap

The metrics in this category provide information about the ILOM SNMP HAState change traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Chassis Id

This metric provides the chassis serial number.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	HA state change. OldState: %OldHAState% , NewState:%NewHAState%.

NewHAState

This metric provides the new value of the high availability state after a high availability state change has occurred.

OldHAState

This metric provides the old value of the high availability state after a high availability state change has occurred.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP IO Trap

The metrics in this category provide information about the ILOM SNMP IO traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	IO fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Memory Trap

The metrics in this category provide information about the ILOM SNMP memory traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Memory fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Power Consumption Trap

The metrics in this category provide information about the ILOM SNMP power consumption traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Product Name

This metric provides the product name

Sensor Value

This metric provides the threshold sensor's reading at the time the trap was generated.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Threshold Type

This metric identifies the threshold type that the sensor is reporting on.

Threshold Value

This metric provides the threshold setting that has been crossed.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	PowerConsumption Threshold fault in %ComponentName%. Threshold of %ThresholdType% with %ThresholdValue%. SensorValue is %SensorValue% .

ILOM SNMP Power Supply Trap

The metrics in this category provide information about the ILOM SNMP power supply traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Power Supply fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP PreOSError Trap

The metrics in this category provide information about the ILOM SNMP PreOSError traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Chassis Id

This metric provides the chassis serial number.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	PreOS Error for %ComponentName%

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Processor Trap

The metrics in this category provide information about the ILOM SNMP processor traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Processor fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Security Intrusion Trap

The metrics in this category provide information about the ILOM SNMP security intrusion traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Chassis Id

This metric provides the chassis serial number.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	sunHwTrapSecurityIntrusion for %ComponentName%.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Sensor Trap

The metrics in this category provide information about the ILOM SNMP sensor traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Product Name

This metric provides the product name

Sensor Value

This metric provides the threshold sensor's reading at the time the trap was generated.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Threshold Type

This metric identifies the threshold type that the sensor is reporting on.

Threshold Value

This metric provides the threshold setting that has been crossed.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Sensor Threshold fault in %ComponentName%. Threshold of %ThresholdType% with %ThresholdValue%. SensorValue is %SensorValue% .

ILOM SNMP SlotOrConnector Trap

The metrics in this category provide information about the ILOM SNMP SlotOrConnector traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	SlotOrConnector fault or error in %ComponentName%. FaultUUID of %FaultUUID% with certainty of %FaultCertainty%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Storage Volume Trap

The metrics in this category provide information about the ILOM SNMP storage volume traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Fault Certainty

This metric provides the probability (percentage) that the component is the source of the problem.

Fault Class

This metric provides the fault class, which represents a hierarchical classification string indicating the type of problem detected, as reported by the fault management subsystem.

Fault Message ID

This metric provides the fault message ID.

Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	FaultDiagnosed in %Hostname% with UUID %FaultUUID%.

Fault UUID

This metric provides the UUID that was assigned to this fault.

Product Name

This metric provides the product name

Probable Cause

This metric provides the probable cause for the storage volume error.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

ILOM SNMP Temperature Trap

The metrics in this category provide information about the ILOM SNMP temperature traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Product Name

This metric provides the product name

Sensor Value

This metric provides the threshold sensor's reading at the time the trap was generated.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Threshold Type

This metric identifies the threshold type that the sensor is reporting on.

Threshold Value

This metric provides the threshold setting that has been crossed.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Temperature Threshold fault in %ComponentName%. Threshold of %ThresholdType% with %ThresholdValue%. SensorValue is %SensorValue% .

ILOM SNMP Test Trap

The metrics in this category provide information about the ILOM SNMP temperature traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Chassis Id

This metric provides the chassis serial number.

Product Name

This metric provides the product name

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Test Message

This metric provides a test message.

Test Fault Status

This metric provides the status of the fault.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Test fault in %ProductName%

ILOM SNMP Voltage Trap

The metrics in this category provide information about the ILOM SNMP voltage traps.

There is no collection defined for these metrics because Enterprise Manager uses these metrics only to raise alerts when SNMP traps are received by the Management Agent.

Component Name

This metric provides the name of the component that is the source of the trap.

Additional Info

This metric provides additional information about the component.

Chassis Id

This metric provides the chassis serial number.

Product Name

This metric provides the product name

Sensor Value

This metric provides the threshold sensor's reading at the time the trap was generated.

System Identifier

This metric provides an ID used to identify the source of the trap. Typically, this is the host name.

Threshold Type

This metric identifies the threshold type that the sensor is reporting on.

Threshold Value

This metric provides the threshold setting that has been crossed.

Target Version	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Not Defined	Not Defined	Voltage Threshold fault in %ComponentName%. Threshold of %ThresholdType% with %ThresholdValue%. SensorValue is %SensorValue% .

Inlet/Outlet Temperature Info for Server

The metrics in this category provide information about the server temperature.

Exhaust Temperature in Celsius

The metric provides the exhaust temperature in degrees Celsius.

Target Version	Collection Frequency
All versions	Every Hour

Inlet Temperature in Celsius

The metric provides the inlet temperature in degrees Celsius.

Target Version	Collection Frequency
All versions	Every Hour

System Temperature in Celsius

The metric provides the system temperature in degrees Celsius.

Target Version	Collection Frequency
All versions	Every Hour

Network Datalinks Performance

The metrics in this category provide information about the Network Datalinks performance.

Status

This metric provides the status of the datalink.

Target Version	Collection Frequency
All versions	Every 15 Minutes

State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicasts

This metric provides the number of outbound multicasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicast Octets

This metric provides the number of outbound multicast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Dropped Octets

This metric provides the number of outbound dropped octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Broadcasts

This metric provides the number of outbound broadcasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Broadcast Octets

This metric provides the number of outbound broadcast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicasts

This metric provides the number of inbound multicasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Dropped Octets

This metric provides the number of inbound dropped octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Broadcasts

This metric provides the number of inbound broadcasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Broadcast Octets

This metric provides the number of inbound broadcast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Datalink Name

This metric provides the datalink name.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Interfaces Bandwidth

The metrics in this category provide information about the network interfaces bandwidth.

Output Errors Percentage

This metric provides the percentage of output errors on the interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Output Average

This metric provides the average input operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Input/Output Errors Percentage

This metric provides the percentage of input/output errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Input Errors Percentage

This metric provide the percentage of input errors on the interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Input Average

This metric provides the average input operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Bandwidth (KB/sec)

This metric provides the amount of bandwidth used since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Percentage Activity Average

This metric provides the average percentage of activity over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Input/Output Average

This metric provides the average input/output operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions Percentage

This metric provides the total network collisions (in percentage) of the network interface since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Interfaces Performance

The metrics in this category provide information about the network interfaces performance.

Status

This metric provides the status of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Overruns

This metric provides the number of outbound overruns since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Carrier Errors

This metric provides the number of outbound carrier errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Overruns

This metric provides the number of overruns since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Frame Errors

This metric provides the number of frame errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Ports InfiniBand Error Statistics

The metrics in this category provide information about the network ports InfiniBand error statistics.

Sent Discards

This metric provides the number sent discards that occurred since the last collection.

Sent Constraint Errors

This metric provides the number of sent constraint errors since the last collection.

Virtual Lane 15 Packets Dropped

This metric provides the number of incoming VL15 packets dropped due to resource limitations on the port.

Total errors

This metric provides the total number of errors.

Symbol Errors

This metric provides the number of symbol errors on the port since the last collection.

Received Switch Relay Errors

This metric provides the number of switch relay errors.

Received Remote Physical Errors Delta

This metric provides the number of physical errors

Received Errors

This metric provides the number of received errors since the last collection.

Received Constraint Errors

This metric provides the number of received constraint errors received since the last collection.

Link Recovers

This metric provides the number of times the link error recovery process was completed successfully since the last collection.

Link Integrity Errors

This metric provides the number of link integrity errors, that is, the number of errors on the local link.

Link Downed

This metric provides the number of link-down errors.

Execution Buffer Overrun Errors

This metric provides the number of buffer overrun errors since the last collection.

Port ID

This metric provides the port ID.

Network Ports InfiniBand Performance

This metrics in this category provide information about the network ports InfiniBand performance.

Supported Width

This metric provides the width supported by the link.

Supported Speed

The metric provides the speed supported by the link.

Remote Port LID

This metric provides the LID of the remote port.

Port State

This metric provides the state of the port.

Physical Link State

This metric provides the physical link state. The physical link state is 0 if the port is in a polling or disabled state.

Local Port LID

This metric provides the Local Identifier (LID) of the local port.

Link State

This metric provides the link state.

Link Degraded

This metric indicates whether the link is degraded.

Port Polling

This metric indicates whether the port is in a polling state.

Port Disabled

This metric indicates whether the port is disabled.

Gateway Port Link Mode

This metric provides the gateway port link mode.

Enabled Width

This metric provides the width of the port.

Enabled Speed

This metric provides the speed of the node.

Cable State

This metric provides the state of the cable connection

Active Width

This metric provides the width of the link since the last collection.

Active Speed

This metric provides the active speed of the link since the last collection.

Port ID

This metric provides the port ID.

Network Ports InfiniBand Traffic Statistics

This metrics in this category provide information about the network ports InfiniBand traffic statistics.

Sent Packets

This metric provides the number of packets sent since the last collection.

Sent Bytes

This metric provides the number of bytes sent since the last collection.

Sent Unicast Packets

This metric provides the number of unicast packets sent since the last collection.

Received Unicast Packets

This metric provides the number of unicast packets received since the last collection.

Received Packets

This metric provides the number of packets received since the last collection.

Received Bytes

This metric provides the number of bytes received.

Sent Multicast Packets

This metric provides the number of multicast packets sent to the port since the last collection.

Received Multicast Packets

This metric provides the number of multicast packets received by the port since the last collection.

Port Id

This metric provides the port ID.

Network Ports Performance

This metrics in this category provide information about the network ports performance.

vLAN IDs

This metric provides the vLAN ID.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total Octets Rate

This metric provides the rate of total octet bits.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Speed Units

This metric provides the measurement units for the speed.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Speed

This metric provides the speed of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Partition Keys

This metric provides the defined partition keys.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Unicast Packets

This metric provides the number of outbound unicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicast Packets

This metric provides the number of outbound multicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Discards

This metric provides the number of outbound discards.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Operational Status

This metric provides the operational status of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Duplex Mode

This metric provides the specific duplex mode of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

MTU

This metric provides the Maximum Transmission Unit (MTU) of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Unknown Protocol

This metric provides the number of inbound packets with an unknown protocol.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Unicast Packets

This metric provides the number of inbound unicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicast Packets

This metric provides the number of inbound multicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Discarded Packets

This metric provides the information about the number of discarded packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Admin State

This metric provides the information about the administrative state of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Power Usage Summary

The metrics in this category provide information about power usage.

Power One Minute Average

This metric provides the average power consumption per minute.

Target Version	Collection Frequency
All versions	Every Hour

Current Power

This metric provides information about the current power.

Target Version	Collection Frequency
All versions	Every Hour

Type

This metric provides information about the power type.

Target Version	Collection Frequency
All versions	Every Hour

Response

This metric category provides information about the status of the Systems Infrastructure Server - OS Access Point target.

Status

This metric provides the status of the Systems Infrastructure Server - OS Access Point target.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Minute	Not Defined	0	%target% is Down.

Sensor Status

The metrics in this category provide information about the status of the sensor.

Sensor Identifier

This metric provides the ID of the sensor.

Component Identifier

This metric provides the ID of the hardware component.

Read Value

This metric provides the read value of the sensor.

Status

This metric provides the status of the sensor.

Value

This metric provides the value from the sensor.

Service Processor Status

The metrics in this category provide information about the status of the service processor.

Date Time

This metric provides the data and time associated with the service processor.

Target Version	Collection Frequency
All versions	Every Hour

Uptime

This metric provides the current uptime of the service processor.

Target Version	Collection Frequency
All versions	Every Hour

Switch Aggregated System Status

The metrics in this category provide information about the status of the switch aggregated system.

Cable State

This metric provides the state of the cable connection

Cable State Change

This metric provides the change in cable connectivity.

Cooling Redundancy

This metric provides the cooling redundancy state.

Cooling State

This metric provides the overall cooling state.

Health Status

This metric provides the health status.

InfiniBand State

This metric provides the InfiniBand state.

Locator Light

This metric provides the locator light.

Power Redundancy

This metric provides the power redundancy state.

Power State

This metric provides the overall power state.

Temperature State

This metric provides the overall temperature state.

Voltage State

This metric provides the voltage state.

18

Solaris Zone

This chapter provides information about the Solaris Zone metrics. For each metric, it provides the following information:

- Description
- Metric table

The metric table can include some or all of the following: target version, default collection frequency, default warning threshold, default critical threshold, and alert text.

Inlet/Outlet Temperature Info for Server

The metrics in this category provide information about the server temperature.

System Temperature in Celsius

The metric provides the system temperature in degrees Celsius.

Target Version	Collection Frequency
All versions	Every Hour

Inlet Temperature in Celsius

The metric provides the inlet temperature in degrees Celsius.

Target Version	Collection Frequency
All versions	Every Hour

Exhaust Temperature in Celsius

The metric provides the exhaust temperature in degrees Celsius.

Target Version	Collection Frequency
All versions	Every Hour

Switch Aggregated System Status

The metrics in this category provide information about the status of the switch aggregated system.

Voltage State

This metric provides the voltage state.

Temperature State

This metric provides the overall temperature state.

Power State

This metric provides the overall power state.

Power Redundancy

This metric provides the power redundancy state.

Locator Light

This metric provides the locator light.

InfiniBand State

This metric provides the InfiniBand state.

Health Status

This metric provides the health status.

Cooling State

This metric provides the overall cooling state.

Cooling Redundancy

This metric provides the cooling redundancy state.

Cable State Change

This metric provides the state of the cable connection.

Cable State

This metric provides the state of the cable connection.

Sensor Status

The metrics in this category provide information about the status of the sensor.

Value

This metric provides the value from the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Status

This metric provides the status of the sensor.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Hour	Not Defined	critical	Fault found in sensor %SensorId%

Read Value

This metric provides the read value of the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Component Identifier

This metric provides the ID of the hardware component.

Target Version	Collection Frequency
All versions	Every Hour

Sensor Identifier

This metric provides the ID of the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Service Processor Status

The metrics in this category provide information about the status of the service processor.

Uptime

This metric provides the current uptime of the service processor.

Target Version	Collection Frequency
All versions	Every Hour

Date Time

This metric provides the data and time associated with the service processor.

Target Version	Collection Frequency
All versions	Every Hour

Guest State

The metrics in this category provide information about guest states.

State

This metric provides the state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Flags

This metric provides supported flags.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Capped Memory Usage

The metrics in this category provide information about restricted or capped memory usage.

Virtual Memory Cap Usage

This metric provides the restriction or cap on virtual memory usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	Not Defined	Capped Virtual Memory Utilization is %value%%%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Physical Memory Cap Usage

This metric provides the restriction or cap on physical memory usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	Not Defined	Capped Physical Memory Utilization is %value%%%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Locked Memory Cap Usage

This metric provides the restriction or cap on locked memory usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	Not Defined	Capped Locked Memory Utilization is %value%%%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Up Time

The metric in this category provides information about how long the system is running.

UpTime

This metric provides the length of time that a system has been running.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Response

This metric category provides information about the status of the Solaris Zone target.

Status

This metric provides the status of the Solaris Zone target.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Minute	Not Defined	0	%target% is Down.

Power Usage Summary

The metrics in this category provide information about power usage.

Power One Minute Average

This metric provides the average power consumption per minute.

Target Version	Collection Frequency
All versions	Every Hour

Current Power

This metric provides information about the current power.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Type

This metric provides information about the power type.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Ports Performance

This metrics in this category provide information about the network ports performance.

vLAN IDs

This metric provides the vLAN ID.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total Octets Rate

This metric provides the rate of total octet bits.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Speed Units

This metric provides the measurement units for the speed.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Speed

This metric provides the speed of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Partition Keys

This metric provides the defined partition keys.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Unicast Packets

This metric provides the number of outbound unicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicast Packets

This metric provides the number of outbound multicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Discards

This metric provides the number of outbound discards.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Operational Status

This metric provides the operational status of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Duplex Mode

This metric provides the specific duplex mode of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

MTU

This metric provides the Maximum Transmission Unit (MTU) of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Unknown Protocol

This metric provides the number of inbound packets with an unknown protocol.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Unicast Packets

This metric provides the number of inbound unicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicast Packets

This metric provides the number of inbound multicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Discarded Packets

This metric provides the information about the number of discarded packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Admin State

This metric provides the information about the administrative state of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Interfaces Performance

The metrics in this category provide information about the network interfaces performance.

Status

This metric provides the status of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Overruns

This metric provides the number of outbound overruns since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Carrier Errors

This metric provides the number of outbound carrier errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Overruns

This metric provides the number of overruns since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Frame Errors

This metric provides the number of frame errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Interfaces Bandwidth

The metrics in this category provide information about the network interfaces bandwidth.

Output Errors Percentage

This metric provides the percentage of output errors on the interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Output Average

This metric provides the average input operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Input/Output Errors Percentage

This metric provides the percentage of input/output errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Input Errors Percentage

This metric provide the percentage of input errors on the interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Input Average

This metric provides the average input operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Bandwidth (KB/sec)

This metric provides the amount of bandwidth used since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Percentage Activity Average

This metric provides the average percentage of activity over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Input/Output Average

This metric provides the average input/output operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions Percentage

This metric provides the total network collisions (in percentage) of the network interface since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Datalinks Performance

The metrics in this category provide information about the Network Datalinks performance.

Status

This metric provides the status of the datalink.

Target Version	Collection Frequency
All versions	Every 15 Minutes

State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicasts

This metric provides the number of outbound multicasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicast Octets

This metric provides the number of outbound multicast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Dropped Octets

This metric provides the number of outbound dropped octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Broadcasts

This metric provides the number of outbound broadcasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Broadcast Octets

This metric provides the number of outbound broadcast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicasts

This metric provides the number of inbound multicasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicast Octets

This metric provides the number of inbound multicast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Dropped Octets

This metric provides the number of inbound dropped octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Broadcasts

This metric provides the number of inbound broadcasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Broadcast Octets

This metric provides the number of inbound broadcast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Datalink Name

This metric provides the datalink name.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Memory Usage

The metrics in this category provide information about memory usage.

Virtual Memory Usage

This metric provides the virtual memory usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	80	95	Virtual Memory Utilization is %value% %%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Physical Memory Usage

This metric provides the physical memory usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	80	95	Physical Memory Utilization is %value% %%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Locked Memory Usage

This metric provides the locked memory usage.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Virtual CPU Usage

The metrics in this category provide information about virtual CPU usage.

Normalized utilization

This metric provides the percentage of time the virtual CPU spends executing on behalf of the guest operating system.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Processor ID

This metric provides the identifier assigned to this virtual CPU.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Core CPU Usage

The metrics in this category provide information about core CPU usage.

Normalized utilization

This metric provides the percentage of time the core CPU spends executing.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Core ID

This metric provides the identifier assigned to the core CPU.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Fan Usage

The metrics in this category provide information about fan usage.

Real Percentage

This metric provides the real percentage used.

Target Version	Collection Frequency
All versions	Every Hour

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every Hour

Component State

The metrics in this category provide information about the component state.

Error Detail

The metric provides information about errors.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component State

This metric provides the state of the component.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 24 Hours	Not Defined	REMOVED	Fault found in component %ComponentId%

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Faults

The metrics in this category provide information about component faults.

Problem Occurrence Time

This metric provides the time that the problem occurred.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem UUID

This metric provides the universally unique identifier (UUID) of the open problem.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem Status

This metric provides the status of the problem associated with the component.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 24 Hours	Not Defined	1	Fault found in %ComponentName% @ %ProblemOccurrenceTime%. Description: %OpenProblemDescription%, Probability: %OpenProblemProbability%, PartNumber: %ComponentPartNumber%, SerialNumber: %ComponentSerialNumber%

Open Problem Reference Document

This metric provides the URL to an Oracle Support reference document.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem Probability

This metric provides the probability of the open problem.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem Description

This metric provides the description of the open problem.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component subsystem

This metric provides the component subsystem name.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Serial Number

This metric provides the serial number of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Part Number

This metric provides the part number of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Name

This metric provides the name of the component that is the source of the trap.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

CPUUsage

The metrics in this category provide information about CPU usage.

CPU Usage

This metric provides the current amount of CPU usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	80	95	CPU Utilization is %value%%%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

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Solaris Zone RAD access point

This chapter provides information about the Solaris Zone RAD access point metrics. For each metric, it provides the following information:

- Description
- Metric table

The metric table can include some or all of the following: target version, default collection frequency, default warning threshold, default critical threshold, and alert text.

Component State

The metrics in this category provide information about the component state.

Error Detail

The metric provides information about errors.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component State

This metric provides the state of the component.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 24 Hours	Not Defined	REMOVED	Fault found in component %ComponentId%

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Faults

The metrics in this category provide information about component faults.

Problem Occurrence Time

This metric provides the time that the problem occurred.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem UUID

This metric provides the universally unique identifier (UUID) of the open problem.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem Status

This metric provides the status of the problem associated with the component.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 24 Hours	Not Defined	1	Fault found in %ComponentName% @ %ProblemOccurrenceTime%. Description: %OpenProblemDescription%, Probability: %OpenProblemProbability%, PartNumber: %ComponentPartNumber%, SerialNumber: %ComponentSerialNumber%

Open Problem Reference Document

This metric provides the URL to an Oracle Support reference document.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem Probability

This metric provides the probability of the open problem.

Target Version	Collection Frequency
All versions	Every 24 Hours

Open Problem Description

This metric provides the description of the open problem.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component subsystem

This metric provides the component subsystem name.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Serial Number

This metric provides the serial number of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Part Number

This metric provides the part number of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Name

This metric provides the name of the component that is the source of the trap.

Target Version	Collection Frequency
All versions	Every 24 Hours

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every 24 Hours

CPU Usage

The metrics in this category provide information about CPU usage.

CPU Usage

This metric provides the current amount of CPU usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	80	95	CPU Utilization is %value%%%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Network Interfaces Performance

The metrics in this category provide information about the network interfaces performance.

Status

This metric provides the status of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Overruns

This metric provides the number of outbound overruns since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Carrier Errors

This metric provides the number of outbound carrier errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Overruns

This metric provides the number of overruns since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Frame Errors

This metric provides the number of frame errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Interfaces Bandwidth

The metrics in this category provide information about the network interfaces bandwidth.

Output Errors Percentage

This metric provides the percentage of output errors on the interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Output Average

This metric provides the average input operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Input/Output Errors Percentage

This metric provides the percentage of input/output errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Input Errors Percentage

This metric provide the percentage of input errors on the interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Input Average

This metric provides the average input operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Bandwidth (KB/sec)

This metric provides the amount of bandwidth used since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Percentage Activity Average

This metric provides the average percentage of activity over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

10 minute Input/Output Average

This metric provides the average input/output operations over 10 minutes.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions Percentage

This metric provides the total network collisions (in percentage) of the network interface since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Interface Name

This metric provides the name of the network interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Network Datalinks Performance

The metrics in this category provide information about the Network Datalinks performance.

Status

This metric provides the status of the datalink.

Target Version	Collection Frequency
All versions	Every 15 Minutes

State

This metric provides the link state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Packets

This metric provides the number of outbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicasts

This metric provides the number of outbound multicasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicast Octets

This metric provides the number of outbound multicast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Drops

This metric provides the number of outbound drops since the last collection.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Dropped Octets

This metric provides the number of outbound dropped octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Broadcasts

This metric provides the number of outbound broadcasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Broadcast Octets

This metric provides the number of outbound broadcast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Packets

This metric provides the number of inbound packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicasts

This metric provides the number of inbound multicasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicast Octets

This metric provides the number of inbound multicast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Drops

This metric provides the number of inbound drops.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Dropped Octets

This metric provides the number of inbound dropped octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Broadcasts

This metric provides the number of inbound broadcasts.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Broadcast Octets

This metric provides the number of inbound broadcast octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Collisions

This metric provides the number of collisions.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Datalink Name

This metric provides the datalink name.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Memory Usage

The metrics in this category provide information about memory usage.

Virtual Memory Usage

This metric provides the virtual memory usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	80	95	Virtual Memory Utilization is %value% %%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Physical Memory Usage

This metric provides the physical memory usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	80	95	Physical Memory Utilization is %value% %%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Locked Memory Usage

This metric provides the locked memory usage.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Virtual CPU Usage

The metrics in this category provide information about virtual CPU usage.

Normalized utilization

This metric provides the percentage of time the virtual CPU spends executing on behalf of the guest operating system.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Processor ID

This metric provides the identifier assigned to this virtual CPU.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Core CPU Usage

The metrics in this category provide information about core CPU usage.

Normalized utilization

This metric provides the percentage of time the core CPU spends executing.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Core ID

This metric provides the identifier assigned to the core CPU.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Fan Usage

The metrics in this category provide information about fan usage.

Real Percentage

This metric provides the real percentage used.

Target Version	Collection Frequency
All versions	Every Hour

Component Identifier

This metric provides the ID of the component.

Target Version	Collection Frequency
All versions	Every Hour

Guest State

The metrics in this category provide information about guest states.

State

This metric provides the state.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Flags

This metric provides supported flags.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Capped Memory Usage

The metrics in this category provide information about restricted or capped memory usage.

Virtual Memory Cap Usage

This metric provides the restriction or cap on virtual memory usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	Not Defined	Capped Virtual Memory Utilization is %value%%%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Physical Memory Cap Usage

This metric provides the restriction or cap on physical memory usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	Not Defined	Capped Physical Memory Utilization is %value%%%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Locked Memory Cap Usage

This metric provides the restriction or cap on locked memory usage.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every 15 Minutes	Not Defined	Not Defined	Capped Locked Memory Utilization is %value%%%, crossed warning (%warning_threshold%) or critical (%critical_threshold%) threshold

Up Time

The metric in this category provides information about how long the system is running.

UpTime

This metric provides the length of time that a system has been running.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inlet/Outlet Temperature Info for Server

The metrics in this category provide information about the server temperature.

System Temperature in Celsius

The metric provides the system temperature in degrees Celsius.

Target Version	Collection Frequency
All versions	Every Hour

Inlet Temperature in Celsius

The metric provides the inlet temperature in degrees Celsius.

Target Version	Collection Frequency
All versions	Every Hour

Exhaust Temperature in Celsius

The metric provides the exhaust temperature in degrees Celsius.

Target Version	Collection Frequency
All versions	Every Hour

Switch Aggregated System Status

The metrics in this category provide information about the status of the switch aggregated system.

Voltage State

This metric provides the voltage state.

Temperature State

This metric provides the overall temperature state.

Power State

This metric provides the overall power state.

Power Redundancy

This metric provides the power redundancy state.

Locator Light

This metric provides the locator light.

InfiniBand State

This metric provides the InfiniBand state.

Health Status

This metric provides the health status.

Cooling State

This metric provides the overall cooling state.

Cooling Redundancy

This metric provides the cooling redundancy state.

Cable State Change

This metric provides the change in cable connectivity.

Cable State

This metric provides the state of the cable connection

Sensor Status

The metrics in this category provide information about the status of the sensor.

Value

This metric provides the value from the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Status

This metric provides the status of the sensor.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Hour	Not Defined	critical	Fault found in sensor %SensorId%

Read Value

This metric provides the read value of the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Component Identifier

This metric provides the ID of the hardware component.

Target Version	Collection Frequency
All versions	Every Hour

Sensor Identifier

This metric provides the ID of the sensor.

Target Version	Collection Frequency
All versions	Every Hour

Service Processor Status

The metrics in this category provide information about the status of the service processor.

Uptime

This metric provides the current uptime of the service processor.

Target Version	Collection Frequency
All versions	Every Hour

Date Time

This metric provides the data and time associated with the service processor.

Target Version	Collection Frequency
All versions	Every Hour

Response

This metric category provides information about the status of the Solaris Zone RAD access point target.

Status

This metric provides the status of the Solaris Zone RAD access point target.

Target Version	Evaluation and Collection Frequency	Default Warning Threshold	Default Critical Threshold	Alert Text
All versions	Every Minute	Not Defined	0	%target% is Down.

Power Usage Summary

The metrics in this category provide information about power usage.

Power One Minute Average

This metric provides the average power consumption per minute.

Target Version	Collection Frequency
All versions	Every Hour

Current Power

This metric provides information about the current power.

Target Version	Collection Frequency
All versions	Every Hour

Type

This metric provides information about the power type.

Target Version	Collection Frequency
All versions	Every Hour

Network Ports Performance

This metrics in this category provide information about the network ports performance.

vLAN IDs

This metric provides the vLAN ID.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Total Octets Rate

This metric provides the rate of total octet bits.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Speed Units

This metric provides the measurement units for the speed.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Speed

This metric provides the speed of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Partition Keys

This metric provides the defined partition keys.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Unicast Packets

This metric provides the number of outbound unicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets Rate

This metric provides the average of the outbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Octets

This metric provides the number of outbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Multicast Packets

This metric provides the number of outbound multicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Errors

This metric provides the number of outbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Outbound Discards

This metric provides the number of outbound discards.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Operational Status

This metric provides the operational status of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Duplex Mode

This metric provides the specific duplex mode of the port.

Target Version	Collection Frequency
All versions	Every 15 Minutes

MTU

This metric provides the Maximum Transmission Unit (MTU) of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Unknown Protocol

This metric provides the number of inbound packets with an unknown protocol.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Unicast Packets

This metric provides the number of inbound unicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets Rate

This metric provides the average of the inbound octet rate for this interface.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Octets

This metric provides the number of inbound octets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Multicast Packets

This metric provides the number of inbound multicast packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Inbound Errors

This metric provides the number of inbound errors.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Discarded Packets

This metric provides the information about the number of discarded packets.

Target Version	Collection Frequency
All versions	Every 15 Minutes

Admin State

This metric provides the information about the administrative state of the link.

Target Version	Collection Frequency
All versions	Every 15 Minutes