OPTIMIZE

MERCURY BUSINESS AVAILABILITY CENTER™

Reference Information



Mercury Business Availability Center

Reference Information
Version 6.2

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Mercury Business Availability Center, Version 6.2 Reference Information

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Welcome to Reference Information

This guide provides general reference information as well as details on working with Mercury Business Availability Center log files.

How This Guide Is Organized

The guide contains the following chapters:

Chapter 1 General Reference Information

Describes various reference topics relevant to the Mercury Business Availability Center system.

Chapter 2 Mercury Business Availability Center Logs

Describes the log files generated by Mercury Business Availability Center that might be useful to administrators troubleshooting the Mercury Business Availability Center system.

Chapter 3 Samples

Describes the samples you can use to create custom reports or integrate with third-party applications that require data from the Mercury Business Availability Center system.

Who Should Read This Guide

This guide is intended for the following users of Mercury Business Availability Center:

- ➤ Mercury Business Availability Center administrators
- ➤ Mercury Business Availability Center platform administrators
- ➤ Mercury Business Availability Center application administrators
- ➤ Mercury Business Availability Center data collector administrators
- ➤ Mercury Business Availability Center database administrators
- ➤ Script developers

Readers of this guide should be knowledgeable about enterprise system administration and Mercury Business Availability Center.

Getting More Information

For information on using and updating the Mercury Business Availability Center, reference information on additional documentation resources, typographical conventions used in the Documentation Library, and quick reference information on deploying, administering, and using Mercury Business Availability Center, refer to *Getting Started with Mercury Business Availability Center*.

General Reference Information

This chapter describes general reference information for Mercury Business Availability Center.

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Allowed Names in Mercury Business Availability Center

When naming entities in Mercury Business Availability Center, follow the conventions described below:

- ➤ Due to certain Web browser limitations, the names of server machines running the Mercury Business Availability Center servers should only consist of alpha-numeric characters (a-z, A-Z, 0-9), hyphens (-), and periods (.). For example, if the names of the machines running the servers contain underscores, it may not be possible to log into the Mercury Business Availability Center Web site when using Microsoft Internet Explorer 6.0 or later. (To access the Mercury Business Availability Center Web site in this case, use the machine's IP address instead of the machine name containing the underscore.)
- ➤ The Mercury Business Availability Center program directory, named MercuryAM by default, cannot contain non-English characters.
- ➤ Names must begin with a letter.
- ➤ Name length must not exceed 50 characters (except for transaction names, which can be up to 1024 characters; and user login, which cannot exceed 20 characters.
- ➤ Entity names Mercury Business Availability Center for CMDB-based applications follow the conventions described below:
 - ➤ Class attributes values. All primitive types are supported: long, double, float, string, and so forth.
 - ➤ Class attributes values-type string. All special characters are supported. The maximum length is 50 characters (4000 bytes).
 - ➤ Class names and attributes names. The following are permitted: a-z, A-Z, and underscore (_). The length limited to 30 characters.
 - ➤ Class attribute length. The total length of all the attributes in one class cannot exceed 8K due to SQL Server limitation.

➤ Allowable characters are a-z, A-Z, 0-9, and the following special characters:

| Entity | Special Characters Allowed |
|--|---|
| CMDB-Based Components | |
| IT Universe | All |
| View Manager | All |
| Discovery Manager | All; For IP addresses only digits and * |
| Source Manager | All |
| CI Type Manager | All characters except: " \ / []: <> + =; ,?* |
| Dashboard | All |
| Service Level Management | All |
| CMDB alerts | All |
| Platform Administration | |
| Management database name | _@\$# |
| Management user schema (Oracle) | None |
| Management user schema password (Oracle) | None |
| User name | All characters except: " \ / [] : < > + = ; , ? * |
| User login | All characters except: " \ / []: < > + = ; , ? * |
| User password | All characters |
| User group name | All characters except: " \ / [] : < > + = ; , ? * |
| Alert name | `~!@#\$%^&*()+=[]{}\ /? .,"':;<> <space></space> |
| Recipient name | `~!@#\$%^&*()+=[]{}\ /? .,"':;<> <space></space> |
| Message sender name in alerts | `~!#\$%^*+={}\ /?.' <space></space> |

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| Entity | Special Characters Allowed |
|---|---|
| SMTP server name in alerts | -·- |
| Scheduled report name | `~!@#\$%^&*()+=[]{}\ /? .,"':;<> <space></space> |
| Downtime/Event Schedule name | All characters except: " < > |
| Monitor Administration | |
| Transaction name | `~!@#\$%^&*()+{}; <space></space> |
| Script name | ! _ <space></space> |
| Profile name | ~!@#\$%^&(){}. |
| Views | `~!@#\$%^&*()+{}; <space></space> |
| Categories | `~!@#\$%^&*()+{}; <space></space> |
| Data Collectors | |
| Business Process Monitor host name | `~!@#\$%^&*()+=[]{}\ /? .,"':;<> <space></space> |
| Business Process Monitor host location | `~!@#\$%^&*()+=[]{} /?.: ; <space></space> |
| SiteScope group name | -·- |
| Real User Monitor entities, including Engine | `~!@#\$%^&*()+{}; <space></space> |
| Applications | |
| Custom report title | += []{},.:; <space></space> |
| Custom report menu name | += []{},.:; <space></space> |
| Custom report component title | += []{},.:; <space></space> |
| Trend report title | += []{},.:; <space></space> |
| Trend report menu name | += []{},.:; <space></space> |

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| Entity | Special Characters Allowed |
|-------------------------------|-------------------------------|
| Analytics | |
| Report name | All characters except: < >. |
| | Replace < with < and > with > |
| Description (of a report) | All characters except: < >. |
| | Replace < with < and > with > |
| Column name | All characters except: < >. |
| | Replace < with < and > with > |
| Tab name | All characters except: < >. |
| | Replace < with < and > with > |
| Tooltip | All characters except: < >. |
| | Replace < with < and > with > |
| Template name (portal) | All characters except: < >. |
| | Replace < with < and > with > |
| Template description (portal) | All characters except: < >. |
| | Replace < with < and > with > |
| Portal name and description | All characters except: < >. |
| | Replace < with < and > with > |

Data Aggregation

Mercury Business Availability Center uses data aggregation to make data handling and management more efficient and to improve the speed and performance of report generation. Mercury Business Availability Center data aggregation tasks are performed on the Data Processing Server.

Mercury Business Availability Center aggregates various types of data that it collects for reports (for example, response time data collected by Business Process Monitor, infrastructure machine performance data collected by SiteScope, and user traffic data collected by Real User Monitor). Data aggregation involves combining individual measurements into manageable chunks. The result is improved speed and performance of report generation.

Categories of Data

Mercury Business Availability Center groups data into three categories:

- ➤ raw data. The actual metrics collected by data collectors.
- ➤ fine aggregation granularity. Data grouped into hourly chunks.
- > coarse aggregation granularity. Data grouped into daily chunks.

How Data Is Aggregated

Mercury Business Availability Center aggregates data collected by Business Process Monitor, Client Monitor, and SiteScope data collectors (not including SiteScope Integration Monitors using the event data template).

➤ Hourly aggregation is performed every hour. The default schedule is as follows:

Hourly aggregation for Business Process Monitor, SiteScope, and Client Monitor data is done every hour for the time period that began 2 hours earlier (for example, at 12:00 PM Mercury Business Availability Center aggregates the data collected between 10:00 AM and 11:00 AM).

➤ Daily aggregation is performed once a day after the hourly aggregation. The default schedule is that aggregation begins at 1:00 AM for the previous day (for example, at 1:00 AM Mercury Business Availability Center aggregates the data collected between 12 am, 25 hours ago and 12 am, 1 hour ago). When configuring profile properties, you can specify the time zone that Mercury Business Availability Center uses to determine when to perform daily aggregation in **GMT Offset**. For more details, see "Times and Time Zones Used in Mercury Business Availability Center" on page 11.

You can define a different delay for when the aggregation begins in the Offline Aggregator context of the Infrastructure Settings page (Admin > Platform > Setup and Maintenance > Infrastructure Settings > Foundation > Offline Aggregator). You can specify a separate delay for Business Process Monitor, custom, and SiteScope data. The delay you specify is for both the hourly and daily aggregations. It is recommended that only advanced users change the defaults set in Infrastructure Settings and after first consulting Mercury Customer Support or your Mercury Services representative. For details on using the Infrastructure Settings page, see "Infrastructure Settings" in *Platform Administration*.

How Reports Use Aggregated Data

Whether Mercury Business Availability Center displays a report using raw data, daily aggregated data, or hourly aggregated data depends on several factors:

- ➤ If the requested data in the report is for the past 30 hours, Mercury Business Availability Center uses raw data for Business Process Monitor and Client Monitor data.
- ➤ For reports that use custom data—trend reports, Real User Monitor reports, Service Level Management reports containing custom data, and Diagnostics reports (if installed)—for the requested time range and granularity, Mercury Business Availability Center chooses the optimal combination of data categories so that the least amount of rows must be retrieved from the database.

For example, for a time range Jan. 1 10:40 AM - Jan. 3 10:40 AM and granularity of 1 day, Mercury Business Availability Center:

➤ for Jan. 1 10:40 AM - Jan. 1 11:00 AM - raw data is used

- ➤ for Jan. 1 11:00 AM Jan. 1 11:59 PM hourly aggregated data is used
- ➤ for Jan. 2 12:00 AM Jan. 2 11:59 PM daily aggregated data is used
- ➤ for Jan. 3 12:00 AM Jan. 3 10:00 AM hourly aggregated data is used
- ➤ for Jan. 3 10:00 AM Jan. 3 10:40 AM raw data is used
- ➤ If the requested data in the report does not use custom data and the report range is not 30 hours, Mercury Business Availability Center uses an aggregation threshold—by default, 93% of the maximum—to determine whether to use daily aggregated data, hourly aggregated data, or raw data. When a report is generated for a specific time range, Mercury Business Availability Center calculates the amount of each type of data that exists over that time range and considers only the data types that are above the aggregation threshold.

For example, Mercury Business Availability Center might determine that, for the requested time range "Past Week," raw data exists for 100% of the time range, hourly aggregated data exists for 96% of the time range, and daily aggregated data exists for 86% of the time range. In this case, Mercury Business Availability Center only considers raw data and hourly aggregated data as possible options since both exceed the aggregation threshold of 93%.

When more than one option exists, Mercury Business Availability Center gives priority to the data with the highest granularity (that is, daily is chosen over hourly or raw, hourly is chosen over raw). Thus, in the above example, Mercury Business Availability Center would display the report using hourly aggregated data.

- ➤ If the time granularity for the report (or report time range in reports that are not over time) is set to less than a day, regardless of the chosen time range, Mercury Business Availability Center never uses daily aggregated data.
- ➤ If the time granularity for the report (or report time range in reports that are not over time) is set to less than an hour, regardless of the chosen time range, Mercury Business Availability Center always uses raw data.

Note: (not relevant for Mercury Managed Services customers) If you select a report time range that includes the past day (for example Past Month), and for which Mercury Business Availability Center chooses daily aggregated data, the data for the past day may be missing, as it may not yet have been aggregated into its one day chunk. In such cases, you can "force" Mercury Business Availability Center to use one hour chunks, instead of one day chunks, by increasing the aggregation threshold from its default setting of 93% to 98%. To do so, open the file <Centers Server root directory>\AppServer\DataEngine\conf\ TAS_consts.properties in a text editor, and search for the line defConf.aggrReasonableDiff=7. Modify the value from 7 to 2, save the file, and restart Mercury Business Availability Center on the Centers Server machine. (If you have multiple Centers Servers, repeat this procedure on all the servers.) Keep in mind that, once you make this change, it will apply for all generated reports.

The **Aggregation Policy** setting defines the aggregated data usage policy for reports that use custom data. By default, reports use all available data, raw and aggregated. In certain circumstances, however, it may be necessary to modify this setting. For example, if the aggregation engine is not working (aggregator process on the Data Processing Server is down), you can modify the setting so that only raw data is used.

The setting can be configured in the Infrastructure Settings Manager, Foundations > Generic Data Engine context, Generic Data Engine - Aggregation table to modify the way aggregated data is used in reports.

Note: In general, **Aggregation Policy** setting should not be modified without first consulting Mercury Customer Support. It is not relevant for Mercury Managed Services customers.

Effect of Outlier Setting on Data Aggregation

When aggregating data, if the **Ignore outlier data in reports** setting is cleared in a profile's properties, in the Transaction Threshold Settings section in Monitor Administration, Mercury Business Availability Center excludes transaction instances whose response time exceeds the outlier value, also set in the Transaction Threshold Settings section. If the **Ignore outlier data in reports** setting is selected, Mercury Business Availability Center ignores outlier transactions, and therefore the data is not considered. Note that the default outlier value for all transactions is 45 seconds. For details on configuring outlier values, see "Transaction Threshold Settings" in *End User Management Data Collector Configuration*.

Data Aggregation Limitations

The following limitations apply, as a result of data aggregation:

- ➤ When viewing aggregated data, you may not always be able to see results when drilling down to individual transaction instances.
- ➤ When viewing aggregated data for non-rounded time periods, there might be inaccuracies for the time period close to the starting and ending times of the report. For example, if you generate a report on a Thursday based on data collected between 9:45 AM the previous Monday and 9:45 AM the previous Tuesday, the time period between 9:45 AM and 10:00 AM Monday will not contain any data, even if data was originally collected.
- ➤ Mercury Business Availability Center is unable to display both aggregated and raw data simultaneously in the Multi-Profile report.
- ➤ When viewing SiteScope data that is aggregated hourly, keep in mind that the if the aggregator did not finish aggregating the necessary data, the latest hour may not include all the data. This may happen only on rare occasions when there is a large amount of data needing hourly aggregation.

Data Aggregation and Service Level Management

Service Level Management aggregates data differently. For details, see "Aggregated Data" in *Using Service Level Management*.

Times and Time Zones Used in Mercury Business Availability Center

Mercury Business Availability Center deals with times and time zones differently, depending on the context.

Note: All Mercury Business Availability Center servers, as well as the database servers, must be installed in the same time zone, with the same daylight savings time configuration, and be set to the same time.

Data Collection

Mercury Business Availability Center data collectors collect performance data and transmit it to the Core Server, which submits the data to profile databases using the loader mechanism. Data is inserted into the database along with a timestamp. Mercury Business Availability Center components synchronize their time clocks with that of the database server machine hosting the Mercury Business Availability Center management database. Thus, the timestamp attached to each measurement inserted into the database is that of the database server clock at the time the measurement was collected.

Business Process Monitor Scheduling

When running profiles and WebTrace, the Business Process Monitors use the schedule you set when specifying profile settings. When configuring schedule properties, you can choose to have the Business Process Monitor base its scheduling on:

- ➤ the data collector machine's time clock Mercury Business Availability Center uses the host machine's time zone (displayed in parentheses), which is registered in the management database when the Business Process Monitor is installed on the host machine.
- ➤ a specific time zone relative to GMT Mercury Business Availability Center uses the time zone you specify. Choosing Offset from GMT enables you to synchronize transaction run times among hosts in different time zones. Note that this setting is not available for all-day scheduling schemes.

Data Aggregation

The aggregators on the Core Server aggregate the raw data in the profile databases on an hourly and daily basis.

For the standard data aggregator, you set the time zone, relative to GMT, for daily data aggregation when defining a profile's properties. For the custom data aggregator, you set the time zone for data aggregation when configuring the default profile database. For more information on the different aggregators used by Mercury Business Availability Center, see "Data Aggregation" on page 6.

For example, if you want Mercury Business Availability Center to perform daily aggregation on data collected by a particular profile based on Pacific Time, you type **-8**, since Pacific Time is GMT-8 hours. Note that this setting cannot be edited once it is set.

Alerts and Alert Recipients

Mercury Business Availability Center sends alerts from the Core Server. The Core Server synchronizes its time clock with that of the database server machine hosting the management database. Thus, the time associated with an alert or subalert is that of the database server clock at the time the alert or subalert occurred.

Mercury Business Availability Center sends alerts to recipients based on the time range and GMT offset factor that you set when configuring recipient properties in the Platform Administration. For example, if you configure a recipient to receive pager alerts from 9:00 AM - 9:00 PM, and choose a GMT offset of -5 hours, the recipient will only receive alerts via pager from 9:00 AM - 9:00 PM Eastern Time.

Scheduled Reports

Mercury Business Availability Center sends scheduled reports from the Centers Server machine. Mercury Business Availability Center sends scheduled reports based on the report generation time and GMT offset factor that you set when configuring scheduled reports in the Platform Administration.

For example, if you configure a scheduled report to be sent at 9:00 AM, and choose to offset report generation time from GMT by -8 hours, Mercury Business Availability Center will send the report at 9:00 AM Pacific Time.

Service Level Agreements

Service Level Management enables you to specify the time zone of each SLA. Service Level Management calculates reports according to this time zone, so that data is linked to the appropriate time interval. However, Service Level Management displays dates and times according to the time zone settings of the machine on which it is installed.

Date Formats on Client Machines

Mercury Business Availability Center displays dates according to the machine's locale (Mercury Business Availability Center supports 17 locale definitions). Note that Mercury Business Availability Center does not retrieve the date formats from the machine's date definitions.

Report Times

In some Mercury Business Availability Center reports (for example, Average Response Times over Time and Transaction Breakdown over Time), the selected time range is displayed along the x-axis. Mercury Business Availability Center breaks down the time range according to segments, which differ depending on the time range. For example, for the **Day** time range, Mercury Business Availability Center uses one-hour segments.

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Mercury Business Availability Center calculates each time segment differently, depending on the selected time range. Each time segment is exactly the same amount of time with the exception of the first and last time segment of the time range, which are rounded to the start and end time of the report.

The table below describes the time segments that appear along the x-axis for each available time range. For illustration purposes, the information in the table is based on the starting date and time 13/9/01 12:03 PM, where the date format is **month/day/year** and the time format is **hours:minutes:seconds**.

| Time Range | Segment | First Time Segment | Example of Middle Time Segment | Last Time Segment |
|---------------|-----------|------------------------|--------------------------------------|-------------------------|
| Hour | 5 minutes | 9/13/01 12:03:00 PM | 9/13/01 12:05:00 PM | 9/13/01 1:00:00 PM |
| | | to | to | to |
| | | 9/13/01 12:04:59 PM | 9/13/01 12:09:59 PM | 9/13/01 1:02:59 PM |
| Day | 1 hour | 9/13/01 12:03:00 PM | 9/13/01 1:00:00 PM | 9/14/01 12:00:00 PM |
| | | to | to | to |
| | | 9/13/01 12:59:59 PM | 9/13/01 1:59:59 PM | 9/14/01 12:02:59 PM |
| Week | 1 day | 9/13/01 12:03:00 PM | 9/14/01 12:00:00 AM | 9/20/01 12:00:00 AM |
| | | to | to | to |
| | | 9/13/01 11:59:59 PM | 9/14/01 11:59:59 PM | 9/20/01 12:02:59 PM |
| Month | 1 day | 9/13/01 12:03:00 PM | 9/14/01 12:00:00 AM | 10/13/01 12:00:00 AM |
| | | to | to | to |
| | | 9/13/01 11:59:59 PM | 9/14/01 11:59:59 PM | 10/13/01 12:02:59 PM |

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| Time Range | Segment | First Time Segment | Example of Middle Time Segment | Last Time Segment |
|---------------|---------|--|---|--|
| Quarter* | 1 week | 9/13/01 12:03:00 PM to 9/16/01 11:59:59 PM | 9/17/01 12:00:00 AM to 9/23/01 11:59:59 PM | 12/10/01 12:00:00 AM to 12/13/01 12:02:59 PM |
| Year | 1 month | 9/13/01 12:03:00 PM to 9/30/01 11:59:59 PM | 10/1/01 12:00:00 AM to 10/31/01 11:59:59 PM | 9/1/02 12:00:00 AM to 9/13/02 12:02:59 PM |

^{*} For the **Quarter** time range, the week starts on Monday, and the first step is from the start time until the beginning of the following week.

Determining the Specific Servers Installed on a Mercury Business Availability Center Machine

Note to Mercury Managed Services customers: Mercury Operations administers these pages and the interface is hidden from your view.

If you installed Mercury Business Availability Center servers in a distributed architecture, you may want to check the specific servers that are installed on a particular machine. You can do so by examining the [INSTALLED_SERVERS] section of the TopazSetup.ini file, located in the <Mercury Business Availability Center server root directory>\conf directory.

If any of the below lines appears, that server is installed on the machine:

Core_Server=1
Centers_Server=1
Data_Processing_Server=1

JBoss and Tomcat File Locations

The following directories hold JBoss- and Tomcat-related files:

- <Mercury Business Availability Center server root directory>\AppServer\webapps\site.war – Mercury Business Availability Center root directory
- <Mercury Business Availability Center server root directory>\AppServer\resources – holds the application properties files
- <mercury Business Availability Center server root directory>\AppServer\webapps\site.war \DataBases – holds the Mercury Business Availability Center database scripts
- ➤ <Mercury Business Availability Center server root directory>\EJBContainer\
 server\default\work holds the Tomcat work directory

Note: You can view the JBoss Management Console at http://<Mercury Business Availability Center server>:8080/web-console/index.html.

GMT Time Zones

The following list describes GMT time zones for locations throughout the world.

| (O) (T. 11) D. (C) (N) | (C) (T 11) D : (: /A : |
|---|---|
| (GMT -11) Pacific/Niue | (GMT -11) Pacific/Apia |
| (GMT -11) MIT | (GMT -11) Pacific/Pago_Pago |
| (GMT -10) Pacific/Tahiti | (GMT -10) Pacific/Fakaofo |
| (GMT -10) Pacific/Honolulu | (GMT -10) HST |
| (GMT -10) America/Adak | (GMT -10) Pacific/Rarotonga |
| (GMT -9) Pacific/Marquesas | (GMT -9) Pacific/Gambier |
| (GMT -9) America/Anchorage | (GMT -9) AST |
| (GMT -8) Pacific/Pitcairn | (GMT -8) America/Vancouver |
| (GMT -8) America/Tijuana | (GMT -8) America/Los_Angeles |
| (GMT -8) PST | (GMT -7) America/Dawson_Creek |
| (GMT -7) America/Phoenix | (GMT -7) PNT |
| (GMT -7) America/Edmonton | (GMT -7) America/Mazatlan |
| (GMT -7) America/Denver | (GMT -7) MST |
| (GMT -6) America/Belize | (GMT -6) America/Regina |
| (GMT -6) Pacific/Galapagos | (GMT -6) America/Guatemala |
| (GMT -6) America/Tegucigalpa | (GMT -6) America/El_Salvador |
| (GMT -6) America/Costa_Rica | (GMT -6) America/Winnipeg |
| (GMT -6) Pacific/Easter | (GMT -6) America/Mexico_City |
| (GMT -6) America/Chicago | (GMT -6) CST |
| (GMT -5) America/Porto_Acre | (GMT -5) America/Bogota |
| (GMT -5) America/Guayaquil | (GMT -5) America/Jamaica |
| (GMT -5) America/Cayman | (GMT -5) America/Managua |
| (GMT -5) America/Panama | (GMT -5) America/Lima |
| (GMT -5) America/Indianapolis | (GMT -5) IET |
| (GMT -5) America/Nassau | (GMT -5) America/Montreal |
| (GMT -5) America/Havana | (GMT -5) America/Port-au-Prince |
| (GMT -5) America/Grand_Turk | (GMT -5) America/New_York |
| (GMT -5) EST | (GMT -4) America/Antigua |
| (GMT -4) America/Anguilla | (GMT -4) America/Curacao |
| (GMT -4) America/Aruba | (GMT -4) America/Barbados |
| (GMT -4) America/La_Paz | (GMT -4) America/Manaus |
| (GMT -4) America/Dominica | (GMT -4) America/Santo_Domingo |
| , | , |

- (GMT -4) America/Grenada
- (GMT -4) America/Guyana
- (GMT -4) America/St_Lucia
- (GMT -4) America/Montserrat
- (GMT -4) PRT
- (GMT -4) America/St_Vincent
- (GMT -4) America/St_Thomas
- (GMT -4) Antarctica/Palmer
- (GMT -4) America/Cuiaba
- (GMT -4) Atlantic/Stanley
- (GMT -4) America/Asuncion
- (GMT -3) America/St Johns
- (GMT -3) America/Fortaleza
- (GMT -3) America/Paramaribo
- (GMT -3) America/Buenos Aires
- (GMT -3) America/Godthab
- (GMT -3) America/Sao_Paulo
- (GMT -2) America/Noronha
- (GMT -1) Atlantic/Jan_Mayen
- (GMT -1) America/Scoresbysund
- (GMT +0) Africa/Ouagadougou
- (GMT +0) Africa/Accra
- (GMT +0) Africa/Conakry
- (GMT +0) Atlantic/Reykjavik
- (GMT +0) Africa/Casablanca
- (GMT +0) Africa/Nouakchott
- (GMT +0) Africa/Freetown
- (GMT +0) Africa/Sao_Tome
- (GMT + 0) GMT
- (GMT +0) Atlantic/Faeroe
- (GMT +0) Europe/Dublin
- (GMT +0) Europe/London
- (GMT +1) Africa/Porto-Novo
- (GMT +1) Africa/Kinshasa
- (GMT +1) Africa/Libreville
- (GMT +1) Africa/Niamey

- (GMT -4) America/Guadeloupe
- (GMT -4) America/St Kitts
- (GMT -4) America/Martinique
- (GMT -4) America/Puerto Rico
- (GMT -4) America/Port of Spain
- (GMT -4) America/Tortola
- (GMT -4) America/Caracas
- (GMT -4) Atlantic/Bermuda
- (GMT -4) America/Halifax
- (GMT -4) America/Thule
- (GMT -4) America/Santiago
- (GMT -3) CNT
- (GMT -3) America/Cayenne
- (GMT -3) America/Montevideo
- (GMT -3) AGT
- (GMT -3) America/Miquelon
- (GMT -3) BET
- (GMT -2) Atlantic/South_Georgia
- (GMT -1) Atlantic/Cape_Verde
- (GMT -1) Atlantic/Azores
- (GMT +0) Africa/Abidjan
- (GMT +0) Africa/Banjul
- (GMT +0) Africa/Bissau
- (GMT +0) Africa/Monrovia
- (GMT +0) Africa/Timbuktu
- (GMT +0) Atlantic/St_Helena
- (GMT +0) Africa/Dakar
- (GMT +0) Africa/Lome
- (GMT +0) UTC
- (GMT +0) Atlantic/Canary
- (GMT +0) Europe/Lisbon
- (GMT +1) Africa/Luanda
- (GMT +1) Africa/Bangui
- (GMT +1) Africa/Douala
- (GMT +1) Africa/Malabo
- (GMT +1) Africa/Lagos

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| (GMT +1) Africa/Ndjamena | (GMT +1) Africa/Tunis |
|------------------------------|------------------------------|
| (GMT +1) Africa/Algiers | (GMT +1) Europe/Andorra |
| (GMT +1) Europe/Tirane | (GMT +1) Europe/Vienna |
| (GMT +1) Europe/Brussels | (GMT +1) Europe/Zurich |
| (GMT +1) Europe/Prague | (GMT +1) Europe/Berlin |
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| (GMT +1) Europe/Gibraltar | (GMT +1) Europe/Budapest |
| (GMT +1) Europe/Rome | (GMT +1) Europe/Vaduz |
| (GMT +1) Europe/Luxembourg | g (GMT +2) Africa/Tripoli |
| (GMT +1) Europe/Monaco | (GMT +1) Europe/Malta |
| (GMT +1) Africa/Windhoek | (GMT +1) Europe/Amsterdam |
| (GMT +1) Europe/Oslo | (GMT +1) Europe/Warsaw |
| (GMT +1) Europe/Stockholm | (GMT +1) Europe/Belgrade |
| (GMT +1) Europe/Paris | (GMT +1) ECT |
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| (GMT +2) Africa/Lubumbashi | (GMT +2) Africa/Maseru |
| (GMT +2) Africa/Blantyre | (GMT +2) Africa/Maputo |
| (GMT +2) Africa/Kigali | (GMT +2) Africa/Khartoum |
| (GMT +2) Africa/Mbabane | (GMT +2) Africa/Lusaka |
| (GMT +2) Africa/Harare | (GMT +2) CAT |
| (GMT +2) Africa/Johannesburg | (GMT +2) Europe/Sofia |
| (GMT +2) Europe/Minsk | (GMT +2) Asia/Nicosia |
| (GMT +2) Europe/Tallinn | (GMT +2) Africa/Cairo |
| (GMT +2) ART | (GMT +2) Europe/Helsinki |
| (GMT +2) Europe/Athens | (GMT +2) Asia/Jerusalem |
| (GMT +2) Asia/Amman | (GMT +2) Asia/Beirut |
| (GMT +1) Europe/Vilnius | (GMT +2) Europe/Riga |
| (GMT +2) Europe/Chisinau | (GMT +2) Europe/Bucharest |
| (GMT +2) Europe/Kaliningrad | (GMT +2) Asia/Damascus |
| (GMT +2) Europe/Kiev | (GMT +2) Europe/Istanbul |
| (GMT +2) EET | (GMT +3) Asia/Bahrain |
| (GMT +3) Africa/Djibouti | (GMT +3) Africa/Asmera |
| (GMT +3) Africa/Addis_Ababa | (GMT +3) EAT |
| (GMT +3) Africa/Nairobi | (GMT +3) Indian/Comoro |
| (GMT +3) Asia/Kuwait | (GMT +3) Indian/Antananarivo |
| (GMT +3) Asia/Qatar | (GMT +3) Africa/Mogadishu |
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| (GMT +3) Africa/Dar_es_Salaam | (GMT +3) Africa/Kampala |
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| (GMT +3) Asia/Aden | (GMT +3) Indian/Mayotte |
| (GMT +3) Asia/Riyadh | (GMT +3) Asia/Baghdad |
| (GMT +2) Europe/Simferopol | (GMT +3) Europe/Moscow |
| (GMT +3) Asia/Tehran | (GMT +3) MET |
| (GMT +4) Asia/Dubai | (GMT +4) Indian/Mauritius |
| (GMT +4) Asia/Muscat | (GMT +4) Indian/Reunion |
| (GMT +4) Indian/Mahe | (GMT +4) Asia/Yerevan |
| (GMT +4) NET | (GMT +4) Asia/Baku |
| (GMT +4) Asia/Aqtau | (GMT +4) Europe/Samara |
| (GMT +4) Asia/Kabul | (GMT +5) Indian/Kerguelen |
| (GMT +4) Asia/Tbilisi | (GMT +5) Indian/Chagos |
| (GMT +5) Indian/Maldives | (GMT +5) Asia/Dushanbe |
| (GMT +5) Asia/Ashkhabad | (GMT +5) Asia/Tashkent |
| (GMT +5) Asia/Karachi | (GMT +5) PLT |
| (GMT +5) Asia/Bishkek | (GMT +5) Asia/Aqtobe |
| (GMT +5) Asia/Yekaterinburg | (GMT +5) Asia/Calcutta |
| (GMT +5) IST | (GMT +5) Asia/Katmandu |
| (GMT +6) Antarctica/Mawson | (GMT +6) Asia/Thimbu |
| (GMT +6) Asia/Colombo | (GMT +6) Asia/Dacca |
| (GMT +6) BST | (GMT +6) Asia/Almaty |
| (GMT +6) Asia/Novosibirsk | (GMT +6) Indian/Cocos |
| (GMT +6) Asia/Rangoon | (GMT +7) Indian/Christmas |
| (GMT +7) Asia/Jakarta | (GMT +7) Asia/Phnom_Penh |
| (GMT +7) Asia/Vientiane | (GMT +7) Asia/Saigon |
| (GMT +7) VST | (GMT +7) Asia/Bangkok |
| (GMT +7) Asia/Krasnoyarsk | (GMT +8) Antarctica/Casey |
| (GMT +8) Australia/Perth | (GMT +8) Asia/Brunei |
| (GMT +8) Asia/Hong_Kong | (GMT +8) Asia/Ujung_Pandang |
| (GMT +8) Asia/Macao | (GMT +8) Asia/Kuala_Lumpur |
| (GMT +8) Asia/Manila | (GMT +8) Asia/Singapore |
| (GMT +8) Asia/Taipei | (GMT +8) Asia/Shanghai |
| (GMT +8) CTT | (GMT +8) Asia/Ulan_Bator |
| (GMT +8) Asia/Irkutsk | (GMT +9) Asia/Jayapura |
| (GMT +9) Asia/Pyongyang | (GMT +9) Asia/Seoul |
| (GMT +9) Pacific/Palau | (GMT +9) Asia/Tokyo |
| | |

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(GMT +14) Pacific/Kiritimati

| (GMT +9) JST | (GMT +9) Asia/Yakutsk |
|-------------------------------|---|
| (GMT +9) Australia/Darwin | (GMT +9) ACT |
| (GMT +9) Australia/Adelaide | (GMT +9) Australia/Broken_Hill |
| (GMT +10) Australia/Hobart | (GMT +10) |
| | Antarctica/DumontDUrville |
| (GMT +10) Pacific/Truk | (GMT +10) Pacific/Guam |
| (GMT +10) Pacific/Saipan | (GMT +10) Pacific/Port_Moresby |
| (GMT +10) Australia/Brisbane | (GMT +10) Asia/Vladivostok |
| (GMT +10) Australia/Sydney | (GMT +10) AET |
| (GMT +10) Australia/Lord_Howe | (GMT +11) Pacific/Ponape |
| (GMT +11) Pacific/Efate | (GMT +11) Pacific/Guadalcanal |
| (GMT +11) SST | (GMT +11) Pacific/Noumea |
| (GMT +11) Asia/Magadan | (GMT +11) Pacific/Norfolk |
| (GMT +12) Pacific/Kosrae | (GMT +12) Pacific/Tarawa |
| (GMT +12) Pacific/Majuro | (GMT +12) Pacific/Nauru |
| (GMT +12) Pacific/Funafuti | (GMT +12) Pacific/Wake |
| (GMT +12) Pacific/Wallis | (GMT +12) Pacific/Fiji |
| (GMT +12) Antarctica/McMurdo | (GMT +12) Asia/Kamchatka |
| (GMT +12) Pacific/Auckland | (GMT +12) NST |
| (GMT +12) Pacific/Chatham | (GMT +13) Pacific/Enderbury |
| (GMT +13) Pacific/Tongatapu | (GMT +13) Asia/Anadyr |
| - - | = |

Mercury Business Availability Center Logs

Note to Mercury Managed Services customers: Mercury Operations administers this functionality and the interface is hidden from your view.

This chapter describes how Mercury Business Availability Center manages log files.

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| Log File Locations in a Distributed Deployment | 25 |
| Log File Location for Client Monitor | 25 |
| Log Severity Levels | 26 |
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About Mercury Business Availability Center Logs

Mercury Business Availability Center records the procedures and actions performed by the various components in log files. The log files are usually designed to serve Mercury Customer Support when Mercury Business Availability Center does not perform as expected.

The default severity threshold level for log files is set at **Info**. For a definition of log levels, see "Log Severity Levels" on page 26.

You can view log files with any text editor.

Note: Mercury Services offers best practice consulting on this subject. For information on how to obtain this service, contact your Mercury representative.

Log File Locations

Most log files are located in the **Mercury Business Availability Center root directory**>**log** directory and in subdirectories organized by component.

Log file properties are defined in files in the following folder: <Mercury Business Availability Center root directory>\conf\core \Tools\log4j\EJB.

The main Mercury Business Availability Center file is named **topaz.properties**.

Log File Locations in a Distributed Deployment

In typical or compact installations, all Mercury Business Availability Center servers and their logs reside on the same machine. In the case of a distributed deployment of the servers among several machines, logs for a particular server are usually saved on the computer on which the server is installed. However, if it is necessary for you to inspect logs, you should do so on all machines.

When comparing logs on client machines to those on the Mercury Business Availability Center server machines, keep in mind that the date and time recorded in a log are taken from the machine on which the log was produced. It follows that if there is a time difference between the server and client machines, the same event is recorded by each with a different time stamp.

Log File Location for Client Monitor

The log files for Client Monitor on a client machine are located in the following folder: \${CM_DIR}\workspace\log (for example, C:\Program Files\Mercury Interactive\Client Monitor\workspace\log).

Log Severity Levels

Each log is set so that the information it records corresponds to a certain severity threshold. Because the various logs are used to keep track of different information, each is pre-set to an appropriate default level. For details on changing the log level, see "Changing Log Levels" on page 27.

Typical log levels are listed below from narrowest to widest scope:

- ➤ Error. The log records only events that adversely affect the immediate functioning of Mercury Business Availability Center. When a malfunction occurs, you can check if Error messages were logged and inspect their content to trace the source of the failure.
- ➤ Warning. The log's scope includes, in addition to Error-level events, problems for which Mercury Business Availability Center is currently able to compensate and incidents that should be noted to prevent possible future malfunctions.
- ➤ Info. The log records all activity. Most of the information is normally routine and of little use and the log file quickly fills up.
- ➤ **Debug1-Debug5.** These levels are used by Mercury Customer Support when troubleshooting problems. Each debug level adds more information. Debug5 contains the most detailed information.

Note: The names of the different log levels may vary slightly on different servers and for different procedures. For example, **Info** may be referred to as **Always logged** or **Flow**.

Changing Log Levels

If requested by Mercury Customer Support, you may have to change the severity threshold level in a log, for example, to a debug level.

To change the severity threshold level:

- 1 Open the log properties file in a text editor. Log file properties are defined in files in the following folder: <Mercury Business Availability Center root directory>\conf\core\Tools\log4j\EJB.
- **2** Locate the **loglevel** parameter, for example,

loglevel=ERROR

3 Change the level to the required level, for example,

loglevel=DEBUG5

For a description of the log levels, see "Log Severity Levels" on page 26.

4 Save the file.

Changing the Client Monitor Recorder Applet Log Level

Because Client Monitor uses a Java applet to display the Recorder, you change the default log level in the JSP file.

To change the Client Monitor Recorder applet log level:

- 1 Open the file: <Mercury Business Availability Center root directory>\EJBContainer\server\mercury\tmp\deploy \tmp<number>TopazAdminCenter.ear-contents\TopazAdminCenter.war \app\clientmonitor\ClientMonitorRecorderApplet.jsp.
- **2** Locate the Object HTML tag and add the following parameter:

```
<PARAM NAME = "LOG_LEVEL" VALUE = "xxx">
```

where **xxx** can be one of the following: SEVERE (highest value), WARNING, INFO, CONFIG, FINE, or FINEST (lowest value).

3 Save the file.

If this line does not appear in the file, the default log level is INFO.

Log File Settings

The Infrastructure Settings Manager includes the following log settings and their descriptions:

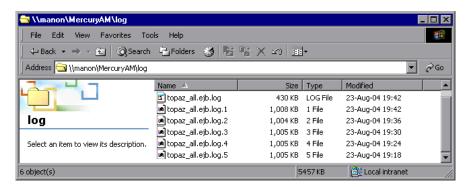
- Mercury Business Availability Center Server log configuration Select Admin
 Platform > Setup and Maintenance > Infrastructure Settings >
 Foundations > Third-Party Components.
- User Action Logging Select Admin > Platform > Setup and Maintenance >
 Infrastructure Settings > Foundations > Business Availability Center
 Interface.

Log File Size and Automatic Archiving

A size limit is set for each type of log file. When a file reaches this limit, it is renamed and becomes an archived log. A new active log file is then created.

For many logs, the number of archived log files saved can be configured. When a file reaches its size limit, it is renamed with the numbered extension 1. If there is currently an archived log with the extension 1, it is renamed with the extension 2, log.2 becomes log.3, and so forth, until the oldest archived log file (with the number corresponding to the maximum number of files to be saved) is permanently deleted.

The following image shows an example of a log file (topaz_all.ejb.log) and its archived copies.



The maximum file size and the number of archived log files are defined in the log properties file, for example:

def.file.max.size=2000KB def.files.backup.count=10

Real User Monitor Logs

Real User Monitor logs store messages from Real User Monitor modules and are used to troubleshoot problems, and to provide information about the system's operations. There are three types of logs: engine logs, JBoss logs, and core logs. The log files are located in the **<Real User Monitor Engine root>log** directory.

You change log levels, and the default log size and archiving parameters, in the same way as in Mercury Business Availability Center. For details, see "Changing Log Levels" on page 27, and "Log File Size and Automatic Archiving" on page 29.

This section contains the following topics:

- ➤ Engine Logs
- ➤ JBoss and Tomcat Logs
- ➤ Core Logs

The structure of the logs is as follows:

Engine Logs

Engine logs contain log messages from the different processes. There are two types of engine log files:

- ➤ rumengine log files. Log files for modules within the Real User Monitor engine.
- ➤ repository log files. Log files for modules connecting the Real User Monitor engine and its mySQL database.

There is a log for each module and the Real User Monitor engine saves up to 20 files for each log by default. When a file reaches a maximum, default size of 3 MB, a new log file is created automatically. Each time the Real User Monitor engine is restarted, it creates a new set of logs. The name of the log file consists of the log type (rumengine or repository), the module name, log and the log file number.

For example, a rumengine type module called **clustermanager** would produce the following log files:

rumengine.clustermanager.log rumengine.clustermanager.log.1 rumengine.clustermanager.log.2

and so forth.

The structure of a message in the log file is as follows: <timestamp> <invoking thread> <java class name and line number> <message log level> <message content>. For example:

2005-08-03 14:20:32,953 [main] (NodesVerifierManager.java:185) INFO - Found primary installation on current machine 2005-08-03 14:20:33,125 [main] (NodeVerifierServer.java:103) INFO - Got host name=paddington from repository. Hostname ID=1

You can change the default log file size and archiving cycle. For details, see "Log File Size and Automatic Archiving" on page 29.

You can change the error level that is reported to the log file for each module. The following error levels can be set for Real User Monitor log files:

- ➤ **Fatal.** The log only records very severe events that could cause the Real User Monitor to abort.
- ➤ Error. The log records severe events that adversely affect the immediate functioning of Real User Monitor, that might still allow the application to continue running.
- ➤ Warn. The log's scope is widened to include events that include potentially harmful situations.
- ➤ Info. The log includes informational messages about the regular running of the system.
- ➤ **Debug.** This level is used by Mercury Customer Support when troubleshooting problems.

For details on changing the error level, see "Changing Log Levels" on page 27.

Note: Each severity level includes all the levels above it. For example, if the log is set to **Warn** level, it includes **Warn**, **Error** and **Fatal** events.

JBoss and Tomcat Logs

JBoss and Tomcat log messages are written to the following files in the <Real User Monitor Engine root>\log directory:

- ➤ jboss_boot.log. Logs startup activities including running the JBoss process, deployment, and startup status. If the Real User Monitor fails to start, any problems are written to this log. For example, if the free port check does not pass, a free port return code other than zero is returned.
- ➤ jboss_server.log. Logs all JBoss activities including JBoss messages, deployment and startup status.
- ➤ jboss_tomcat.log. Logs the Tomcat messages.

Core Logs

Core log messages are written to log files in the **<Real User Monitor Engine** root>\log\core directory.

The core log files contain messages about the general status of the application server on which the Mercury Real User Monitor engine is installed, and its services.

JBoss and Tomcat Logs

JBoss and Tomcat log messages are written to the following files in the <mercury Business Availability Center root directory>\log directory:

- ➤ jboss_boot.log. Logs startup activities including running the JBoss process, deployment, and startup status. If Mercury Business Availability Center fails to start, any problems are written to this log. For example, if the free port check does not pass, a free port return code other than zero is returned.
- ➤ jboss_server.log. Logs all JBoss activities including JBoss messages, deployment and startup status.
- ➤ jboss_tomcat.log. Logs the Tomcat messages.

Chapter 2 • Mercury Business Availability Center Logs

3

Samples

This chapter describes the data samples, and their fields, that are available in various contexts in Mercury Business Availability Center (including Custom Reports, Measurement Filters, and OpenAPI Query Builder). These samples can also be used to create queries to extract data from the Mercury Business Availability Center profile database using the Mercury Business Availability Center API.

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Special Fields

IP Addresses

In some samples, IP addresses are returned as 32 bits representing an array of four bytes. Each byte represents a segment of the IP address. To get the standard text representation of an IP address, convert the returned value to binary and pad left with zero's to a length of 32. Convert each eight bits separately into decimal representation and concatenate the text representation of the resulting numbers together with decimal points between the numbers.

For example,

The guery returns: 167772247

The binary representation is: 1010000000000000000001010111 Pad to length of 32: 000010100000000000000000001010111 Split into bytes: 00001010.000000000.00000000.01010111

Convert each byte to decimal and present with the standard IP format: 10.0.0.87

Time Stamps

Time in queries and return data is a double data type representing seconds since January 1, 1970. See also "Date-Time Values" in *Integrating with Third-Party Applications*.

Data Samples for Dashboard

This section describes the samples and sample fields for Dashboard data (that is, data processed by the Business Logic Engine). These samples use the Universal Data Exchange (UDX) framework, and are thus available for filtering in the Measurement Filters page (for details, see "Working with Measurement Filters" in *Platform Administration*).

Limitation: There is currently no configuration item name field, and it is not possible to map CI names to their CMDB IDs (entity_id field). As such the value of these samples is limited.

Sample: KPI Statuses (bl_kpi_ot_ke)

The KPI Statuses sample (bl_kpi_ot_ke) contains data used when generating the KPIs Over Time report.

| Field | Display Name (Sample) | Data Type | Units | Description |
|---------------|--------------------------|-----------|-------|---|
| customer_name | Customer Name | STRING | | Customer name to which the sample belongs (for Mercury Managed Services, otherwise Default client) |
| entity_id | CMDB Entity id | BINARY | | Configuration ID of CI |

| Field | Display Name (Sample) | Data Type | Units | Description |
|------------|--------------------------|-----------|--------|--|
| heartbeat | Heartbeat | INT | 0 or 1 | If 0, data sample representing status change has been sent from the source. If 1, no status change has been sent from the source in the last 24 hours. |
| kpi_id | Kpi instance cmdb id | BINARY | | Configuration ID of KPI instance |
| kpi_type | Kpi type | INT | | The ID of the KPI, as displayed in the Repositories page (Admin > Dashboard > Repositories > KPIs) |
| sampletype | | STRING | | The name of the sample. |

| Field | Display Name (Sample) | Data Type | Units | Description |
|------------|--------------------------|-----------|--------------------------------|--|
| status | Status | INT | | The ID as defined in the From field in the Parameter Details window (Admin > Dashboard > Repositories > KPIs > clone/override KPI > click the Edit Entity button > Item Details > click the parameter to display the Parameter Details window) |
| time_stamp | | DOUBLE | seconds since Jan 1 1970 | Time stamp in seconds since Jan 1 1970 |
| TUID | | STRING | | Internal ID |

Sample: KPI Values (bl_kpi_ot_kt)

The KPI Values sample (bl_kpi_ot_kt) contains data used when generating the KPI Over Time report.

| Field | Display Name (Sample) | Data Type | Units | Description |
|---------------|--------------------------|-----------|--------------------------------|---|
| customer_name | Customer Name | STRING | | Customer name to which the sample belongs (for Mercury Managed Services, otherwise Default client) |
| entity_id | CMDB Entity id | BINARY | | Configuration ID of CI |
| kpi_id | Kpi instance cmdb id | BINARY | | Configuration ID of KPI instance |
| kpi_type | Kpi type | INT | | The ID of the KPI, as displayed in the Repositories page (Admin > Dashboard > Repositories > KPIs) |
| sampletype | | STRING | | The name of the sample. |
| time_stamp | | DOUBLE | seconds since Jan 1 1970 | Time stamp in seconds since Jan 1 1970 |

| Field | Display Name (Sample) | Data Type | Units | Description |
|-------|--------------------------|-----------|----------------------------------|--|
| TUID | | STRING | | Internal ID |
| Value | Value | DOUBLE | Depends on related rule | The result of the business rule calculation. |

Data Samples for SiteScope

This section describes the samples and sample fields for SiteScope data.

Sample: Event (event)

The Event sample (event) includes data from integration monitors (external EMS data), SiteScope alerts, and SiteScope status changes. (You can use these fields when configuring integration monitor templates. For details, see "Working with Configuration Files" in *Configuring SiteScope Monitors*.) This sample uses the Universal Data Exchange (UDX) framework, and is thus available for filtering in the Measurement Filters page (for details, see "Working with Measurement Filters" in *Platform Administration*).

| Field | Display Name | Description |
|-------------------|-------------------|---|
| acknowledged_by | Acknowledged By | Name of user that acknowledged this event |
| attr1 | | Extra data slot |
| attr2 | | Extra data slot |
| attr3 | | Extra data slot |
| attr4 | | Extra data slot |
| attr5 | | Extra data slot for long strings |
| collector_host_ip | Collector Host IP | IP address of the machine running SiteScope |

| Field | Display Name | Description |
|---------------------|------------------------|--|
| collector_host_name | Collector Host Name | Host name of the machine running SiteScope |
| customer_name | Customer Name | Customer name to which the sample belongs (for Mercury Managed Services, otherwise Default client) |
| data_source | Data Source | System that generated the event |
| description | Description | Textual description of event |
| event_id | Event ID | Unique identifier of this event |
| instance | Instance | Instance of subject that generated the event (e.g D:\). Lowest level of hierarchy describing the event source |
| logical_group | Logical Group | Logical grouping of this event |
| monitor_group | Monitor Group | Monitor group that reported this event |
| object | Object | Optional level in the hierarchy describing the event source |
| orig_severity_name | Original Severity Name | Severity in external EMS terminology |
| owner | Owner | Name of user who owns this event |

| Field | Display Name | Description |
|---------------|---------------|---|
| severity | Severity | One of the following severities: SEVERITY_UNKNOWN SEVERITY_INFORMATION AL SEVERITY_WARNING SEVERITY_MINOR SEVERITY_MAJOR SEVERITY_CRITICAL |
| severity_name | Severity Name | |
| status | Status | Status of event in external EMS terminology |
| subject | Subject | Subject of event (e.g. CPU, SAP application, Hard Disk), middle/high level hierarchy describing the event source. The hierarchy describing an event is in the following format: monitor_group (optional)> target_name> object (optional)> subject> instance. More levels can be added above monitor_group by using logical_group, and attr1 - 5. |
| target_ip | Target IP | IP of host or device that generated the event |
| target_name | Target Name | Name of device or host that generated the event |
| time_stamp | Time Stamp | Time stamp in seconds since Jan 1 1970 |
| value | Value | Use to transfer numerical values from the event |

Event Sample Examples

Infrastructure status change events (popular in EMS):

| Timestamp | IP | Severity | Alert name |
|-----------------------|---------------|----------|-----------------------------|
| 11/5/2004 10:20 AM | 192.168.82.74 | Critical | Server Unionville_1 is down |

Ticketing system events:

| Ticket ID | Severity | Region | Product | Open Date | Close Date |
|--------------|----------|--------|---|-----------------------|-----------------------|
| 2321 | 1 | Europe | Mercury Business Availability Center | 11/5/2004 11:38 AM | 13/5/2004 11:38 AM |

Call center logs:

| Call ID | Customer | Time | Queue | Response | Call | Call |
|---------|----------|--------------------|--------|----------|----------|----------|
| | ID | stamp | number | Time | Answered | Duration |
| 43443 | 4344322 | 15/5/04 8:23 AM | 4 | 32 Sec. | Yes | 284 Sec. |

Miscellaneous events (server backup log):

| Time stamp | IP | Backup Start Time | Backup Duration | Errors |
|-----------------|---------------|----------------------|---------------------|--------|
| 15/5/04 8:23 AM | 192.168.82.74 | 15/5/04 8:23 AM | 15/5/04 14:23 AM | 0 |

Sample: SiteScope Measurement (ss_t)

The SiteScope Measurement sample (ss_t) is sent from the SiteScope server to Mercury Business Availability Center for each metric that is measured. For example, if a CPU monitor measures utilization, for each run of the monitor, a sample is sent returning the value for this metric. If a monitor is configured to measure more than one metric, each run of the monitor sends a separate sample for each measured value.

| Field | Display Name (Sample) | Data Type/Units | Description |
|------------------|--------------------------|--------------------------|---|
| customer_name | | STRING | Customer name to which the sample belongs (for Mercury Managed Services, otherwise Default client) |
| dTime | | DOUBLE/milli- seconds | Time stamp of when the measurement was taken |
| dValue | Measurement Value | DOUBLE | Value of the measurement taken |
| iErrCode | Error Code | INT | |
| instance_id | | INT | A unique id per instance that is set by the dispatcher |
| profile_name | Profile Name | STRING | Profile name |
| szCategoryName | Category Name | STRING | |
| szConnectionName | Connection Name | STRING | Name of the instance of the monitor that monitors the measurement |
| szErr | Error Message | STRING | Error message if the sample has an error |

| Field | Display Name (Sample) | Data Type/Units | Description |
|-----------------------|--------------------------|-----------------|---|
| szMeasurementNa me | Measurement Name | STRING | Mercury Business Availability Center measurement name |
| szMonitorName | Monitor Name | STRING | Type of monitor that retrieved that measurement |
| szMonitorTitle | Monitor Title | STRING | Name given to the monitor upon creation |
| szSessionName | | STRING | Mercury Business Availability Center session name to which the sample belongs |
| szTargetName | Target Name | STRING | Name of the host that the monitor monitors |
| u_iCategoryId | | U_INT | |
| u_iConnectionId | | U_INT | ID of the instance of the monitor that monitors the measurement |
| u_iHasProperty | Has Property | U_INT | |
| u_iMeasurementId | | U_INT | Mercury Business Availability Center measurement ID |
| u_iMonitorId | | U_INT | Mercury Business Availability Center ID of the monitor that retrieved the measurement |
| u_iQuality | Quality | U_INT | Quality of the measurement from 0 to 3 (3 is bad) |

| Field | Display Name (Sample) | Data Type/Units | Description |
|--------------|--------------------------|-----------------|--|
| u_iSessionId | | U_INT | Profile ID as stored in the SESSIONS table in the management database |
| u_iStatus | Status ID | U_INT | Status of the value. Value is valid = 0; error and the value is not valid = 1 |
| u_iTargetId | | U_INT | ID of the host that the monitor monitors |

Sample: SiteScope Measurement Aggregation (ss_hr_t)

The SiteScope Measurement Aggregation sample (ss_hr_t) contains the hourly aggregated data of the data in the SiteScope Measurement sample.

| Field | Display Name | Data Type/Units | Description |
|---------------|------------------|-----------------|---|
| customer_name | Customer Name | STRING | Customer name to which the sample belongs (for Mercury Managed Services, otherwise Default client) |
| dValue_max | | DOUBLE | The maximum value of the measurements taken in the hour. |
| dValue_min | | DOUBLE | The minimum value of the measurements taken in the hour. |
| dValue_sum | | DOUBLE | Sum of the value of the measurements taken for the hour. |

| Field | Display Name | Data Type/Units | Description |
|-----------------------|---------------------|-----------------|---|
| dValue_sumsqr | | DOUBLE | The sum of the squares of the value of the measurements taken for the hour. Can be used to calculate standard deviations. |
| instance_id | | INT | A unique id per instance that is set by the dispatcher |
| profile_name | Profile Name | STRING | Profile name as stored in the SESSIONS table in the management database |
| szCategoryName | Category Name | STRING | |
| szConnectionName | Connection Name | STRING | Name of the instance of the monitor that monitors the measurement |
| szMeasurementNa me | Measurement Name | STRING | Mercury Business Availability Center measurement name |
| szMonitorName | Monitor Name | STRING | Monitor type as known by Mercury Business Availability Center |
| szMonitorTitle | Monitor Title | STRING | Name given to the monitor upon creation |
| szTargetName | Target Name | STRING | Name of the host that the monitor monitors |

| Field | Display Name | Data Type/Units | Description |
|------------------------------|--------------|--|--|
| time_stamp | Time Stamp | DOUBLE/second s since Jan 1 1970 | Time stamp in seconds since Jan 1 1970 |
| u_iCategoryId | | U_INT | |
| u_iConnectionId | | U_INT | ID of the instance of the monitor that monitors the measurement |
| u_iMeasurementId | | U_INT | Mercury Business Availability Center measurement ID |
| u_iMonitorId | | U_INT | Index of the monitor type |
| u_iQuality_good_su m | | U_INT | Number of samples in the hour with a good status |
| u_iQuality_poor_su m | | U_INT | Number of samples in the hour with a poor status |
| u_iQuality_warn_su m | | U_INT | Number of samples in the hour with a warning status |
| u_iSessionId | | U_INT | Profile ID as stored in the SESSIONS table in the management database |
| u_iStatus_abnormal _count | | U_INT | Number of samples with an abnormal value that passed in the hour. |
| u_iStatus_fail_count | | U_INT | Number of samples with a non-valid value that passed in the hour. |

| Field | Display Name | Data Type/Units | Description |
|--------------------------|--------------|-----------------|--|
| u_iStatus_pass_cou nt | | U_INT | Number of samples with a valid value that passed successfully in the hour. |
| u_iTargetId | | U_INT | ID of the host that the monitor monitors |

Data Samples for Business Process Monitor and Client Monitor

This section describes the samples and sample fields for Business Process Monitor and Client Monitor data.

Sample: Transactions (trans_t)

The Transactions sample (trans_t) is used by the Business Process Monitor and Client Monitor to report transaction data for transactions in script monitors. It includes data on the transaction itself, as well as on the results of the specific run (duration, status, and so forth).

| Field | Display Name | Data Type | Units | Description |
|-----------------|--------------------|-----------|--------------|---|
| customer_name | | STRING | | Customer name to which the sample belongs (for Mercury Managed Services, otherwise Default client) |
| dGreenThreshold | Green Threshold | DOUBLE | milliseconds | Defined OK threshold value |
| dRedThreshold | Red Threshold | DOUBLE | milliseconds | Defined Critical threshold value |

| Field | Display Name | Data Type | Units | Description |
|--------------------------|----------------------------|-----------|--------------|---|
| dResponseTime | Response Time | DOUBLE | milliseconds | Response time (duration) |
| iBreakdownExists | | INT | | Indicates whether breakdown was reported for this transaction |
| iComponentError Count | Component Error Count | INT | | Number of component errors |
| instance_id | Instance Id | STRING | | A unique id per instance that is set by the dispatcher |
| profile_name | Profile Name | STRING | | Profile name |
| szHostName | Host Name | STRING | | Data collector host name |
| szLocationName | Location Name | STRING | | Data collector location name |
| szOrganizationNa me | Organization Name | STRING | | Group name for the data collector in the profile |
| szScriptName | Script Name | STRING | | Script name |
| szSessionName | | STRING | | Profile name (same as profile_name) |
| szStatusName | Status Name | STRING | | Status of the transaction (passed/failed/ti med out) |
| szTransactionDes c | Transaction Description | STRING | | Transaction description |

| Field | Display Name | Data Type | Units | Description |
|-----------------------|-----------------------|-----------|--------------------------------|--|
| szTransactionNa me | Transaction Name | STRING | | Transaction name |
| szUniqueIdentifer | Unique Id | STRING | | A unique identifier for this transaction run from the specific data collector |
| time_stamp | | DOUBLE | seconds since Jan 1 1970 | Time stamp in seconds since Jan 1 1970 |
| trans_instance_id | Instance ID | INT | | A unique id per transaction in an instance set by the dispatcher |
| u_iHostId | | U_INT | | Data collector host ID |
| u_iLocationId | | U_INT | | Location ID |
| u_iOrganizationI d | | U_INT | | Group ID for the data collector in the profile |
| u_iScriptId | | U_INT | | Script ID |
| u_iSessionId | | U_INT | | Profile ID as stored in the SESSIONS table in the management database |
| u_iSize | Download data size | U_INT | kilobytes | Total download size |

| Field | Display Name | Data Type | Units | Description |
|--------------------------|-------------------------------|-----------|--------------|--|
| u_iStatus | | U_INT | | Status ID of the transaction (passed/failed/ti med out) |
| u_iSumConnectio nTime | Summary Connection Time | U_INT | milliseconds | Sum of component connection times in the transaction breakdown. This data is not presented in the reports. |
| u_iSumDnsTime | Summary DNS Time | U_INT | milliseconds | the sum of component DNS times in the transaction breakdown. This data is not presented in the reports. |
| u_iSumDownload Time | Summary Download Time | U_INT | milliseconds | Sum of component download times in the transaction breakdown. This data is not presented in the reports. |

| Field | Display Name | Data Type | Units | Description |
|------------------------|---|-----------|--------------|--|
| u_iSumFirstBufTi me | Summary Network First Buffer Time | U_INT | milliseconds | Sum of component 'time to first buffer' times in the transaction breakdown. This data is not presented in the reports. |
| u_iSumNetTime | Summary Network Time | U_INT | milliseconds | Sum of component network times in the transaction breakdown. This data is not presented in the reports. |
| u_iSumRetryTime | Summary Retry Time | U_INT | milliseconds | Sum of component retry times in the transaction breakdown. This data is not presented in the reports. |
| u_iSumServerTim e | Summary Server Time | U_INT | milliseconds | Sum of component server times in the transaction breakdown. This data is not presented in the reports. |

| Field | Display Name | Data Type | Units | Description |
|------------------------|--------------------------------|-----------|--------------|---|
| u_iSumSSLTime | Summary SSL Time | U_INT | milliseconds | Sum of component SSL times in the transaction breakdown. This data is not presented in the reports. |
| u_iTransactionId | | U_INT | | Transaction ID |
| u_iWConnection Time | Weighted Connection Time | U_INT | milliseconds | Connection time in the transaction breakdown, using a weighed aggregation algorithm. This is the data presented in the reports. |
| u_iWDnsTime | Weighted DNS Time | U_INT | milliseconds | DNS time in the transaction breakdown, using a weighed aggregation algorithm. This is the data presented in the reports. |

| Field | Display Name | Data Type | Units | Description |
|----------------------|--|-----------|--------------|---|
| u_iWDownloadTi me | Weighted Download Time | U_INT | milliseconds | Download time in the transaction breakdown, using a weighed aggregation algorithm. This is the data presented in the reports. |
| u_iWFirstBufTime | Weighted Network First Buffer Time | U_INT | milliseconds | Time to first buffer in the transaction breakdown, using a weighed aggregation algorithm. This is the data presented in the reports. |
| u_iWNetTime | Weighted Network Time | U_INT | milliseconds | Network time in the transaction breakdown, using a weighed aggregation algorithm. This is the data presented in the reports. |
| u_iWRetryTime | Weighted Retry Time | U_INT | milliseconds | Retry time in the transaction breakdown, using a weighed aggregation algorithm. This is the data presented in the reports. |

| Field | Display Name | Data Type | Units | Description |
|----------------|-------------------------|-----------|--------------|---|
| u_iWServerTime | Weighted Server Time | U_INT | milliseconds | Server time in the transaction breakdown, using a weighed aggregation algorithm. This is the data presented in the reports. |
| u_iWSSLTime | Weighted SSL Time | U_INT | milliseconds | SSL time in the transaction breakdown, using a weighed aggregation algorithm. This is the data presented in the reports. |

Sample: Transactions Aggregation (trans_hr_t)

The Transactions Aggregation sample (trans_hr_t) contains the hourly aggregated data of the data in the Transactions sample. Although these calculations are done for only successful Transactions samples, this sample also includes count data on failed and timed out transactions.

| Field | Display Name | Data Type | Unit | Description |
|-----------------------|--------------------|-----------|--------------|--|
| dGreenThreshold | Green Threshold | DOUBLE | milliseconds | Defined OK threshold value |
| dRedThreshold | Red Threshold | DOUBLE | milliseconds | Defined Critical threshold value |
| dResponseTime_ max | | DOUBLE | milliseconds | The maximum response time for the sample during the hour |

| Field | Display Name | Data Type | Unit | Description |
|------------------------------|--------------------------|-----------|--------------|--|
| dResponseTime_ min | | DOUBLE | milliseconds | The minimum response time for the sample during the hour |
| dResponseTime_ nbd_sum | | DOUBLE | milliseconds | |
| dResponseTime_ nbd_sumsqr | | DOUBLE | milliseconds | |
| dResponseTime_o bd_sum | | DOUBLE | milliseconds | |
| dResponseTime_o bd_sumsqr | | DOUBLE | milliseconds | |
| dResponseTime_s um | Response Time | DOUBLE | milliseconds | The sum of the response times (duration) for the hour |
| dResponseTime_s umsqr | | DOUBLE | milliseconds | The sum of the squares of the response times for the hour. Can be used to calculate standard deviations. |
| faile_count_cnt | | Integer | | Number of samples that failed during the hour |
| iComponentError Count_sum | Component Error Count | Integer | | Number of component errors |
| page_cbd_count_ sum | | Integer | | |

| Field | Display Name | Data Type | Unit | Description |
|------------------------|----------------------------|-----------|--------------------------------|---|
| pass_count_cnt | | Integer | | Number of samples that passed successfully in the hour |
| pass_count_ndb_ cnt | | Integer | | |
| pass_count_obd_ cnt | | Integer | | Number of samples that passed successfully in the hour with a connection time that was not null |
| profile_name | Profile Name | STRING | | Profile name |
| szLocationName | Location Name | STRING | | Data collector location name |
| szOrganizationNa me | Organization Name | STRING | | Group name for the data collector in the profile |
| szScriptName | Script Name | STRING | | Script name |
| szTransactionDes c | Transaction Description | STRING | | Transaction description |
| szTransactionNa me | Transaction Name | STRING | | Transaction Name |
| time_stamp | | DOUBLE | seconds since Jan 1 1970 | Time stamp in seconds since Jan 1 1970 |
| timed_out_cnt | | Integer | | Number of samples that timed out during the hour |

| Field | Display Name | Data Type | Unit | Description |
|------------------------------|-------------------------------|-----------|--------------|--|
| transaction_insta nce_id | Instance ID | INT | | A unique id per transaction in an instance set by the dispatcher. |
| u_iLocationId | | U_INT | | Location ID |
| u_iOrganizationI d | | U_INT | | Group ID for the data collector in the profile |
| u_iScriptId | | U_INT | | Script ID |
| u_iSessionId | | U_INT | | Profile ID as stored in the SESSIONS table in the management database |
| u_iSize_nbd_sum | | U_INT | kilobytes | |
| u_iSize_obd_sum | | U_INT | kilobytes | |
| u_iSize_sum | Download data size | U_INT | kilobytes | The sum of the total download size |
| u_iSize_sumsqr | | U_INT | kilobytes | The sum of the squares of the total download size. Can be used to calculate standard deviations. |
| u_iSumConnectio nTime_sum | Summary Connection Time | U_INT | milliseconds | The hourly sum of component connection times in the transaction breakdown. |

| Field | Display Name | Data Type | Unit | Description |
|---------------------------------|-----------------------------|-----------|--------------|--|
| u_iSumConnectio nTime_sumsqr | | U_INT | milliseconds | The sum of the squares of the hourly sum of component connection times in the transaction breakdown. Can be used to calculate standard deviations. |
| u_iSumDnsTime_ sum | Summary DNS Time | U_INT | milliseconds | The hourly sum of component DNS times in the transaction breakdown. |
| u_iSumDnsTime_ sumsqr | | U_INT | milliseconds | The sum of the squares of the hourly sum of component DNS times in the transaction breakdown. Can be used to calculate standard deviations. |
| u_iSumDownload Time_sum | Summary Download Time | U_INT | milliseconds | The hourly sum of component download times in the transaction breakdown. |

| Field | Display Name | Data Type | Unit | Description |
|-------------------------------|---|-----------|--------------|--|
| u_iSumDownload Time_sumsqr | | U_INT | milliseconds | The sum of the squares of the hourly sum of component download times in the transaction breakdown. Can be used to calculate standard deviations. |
| u_iSumNetTime_s um | Summary Network Time | U_INT | milliseconds | The hourly sum of component network times in the transaction breakdown. |
| u_iSumNetTime_s umsqr | | U_INT | milliseconds | The sum of the squares of the hourly sum of component network times in the transaction breakdown. Can be used to calculate standard deviations. |
| u_iSumFirstBufTi me_sum | Summary Network First Buffer Time | U_INT | milliseconds | The hourly sum of component 'time to first buffer' times in the transaction breakdown. |

| Field | Display Name | Data Type | Unit | Description |
|-------------------------------|------------------------|-----------|--------------|--|
| u_iSumFirstBufTi me_sumsqr | | U_INT | milliseconds | The sum of the squares of the hourly sum of component 'time to first buffer' times in the transaction breakdown. Can be used to calculate standard deviations. |
| u_iSumRetryTime _sum | Summary Retry Time | U_INT | milliseconds | The hourly sum of component retry times in the transaction breakdown. |
| u_iSumRetryTime _sumsqr | | U_INT | milliseconds | The sum of the squares of the hourly sum of component retry times in the transaction breakdown. Can be used to calculate standard deviations. |
| u_iSumServerTim e_sum | Summary Server Time | U_INT | milliseconds | The hourly sum of component server times in the transaction breakdown. |

| Field | Display Name | Data Type | Unit | Description |
|-----------------------------|--------------------------------|-----------|--------------|--|
| u_iSumServerTim e_sumsqr | | U_INT | milliseconds | The sum of the squares of the hourly sum of component server times in the transaction breakdown. Can be used to calculate standard deviations. |
| u_iSumSSLTime_s um | Summary SSL Time | U_INT | milliseconds | The hourly sum of component SSL times in the transaction breakdown. |
| u_iSumSSLTime_s umsqr | | U_INT | milliseconds | The sum of the squares of the hourly sum of component SSL times in the transaction breakdown. Can be used to calculate standard deviations. |
| u_iTransactionId | | U_INT | | Transaction ID |
| u_iWConnection Time_sum | Weighted Connection Time | U_INT | milliseconds | The sum of the connection times in the transaction breakdown for the hour, using a weighed aggregation algorithm. |

| Field | Display Name | Data Type | Unit | Description |
|-------------------------------|----------------------|-----------|--------------|--|
| u_iWConnection Time_sumsqr | | U_INT | milliseconds | The sum of the squares of the connection times in the transaction breakdown for the hour, using a weighed aggregation algorithm. Can be used to calculate standard deviations. |
| u_iWDnsTime_su m | Weighted DNS Time | U_INT | milliseconds | The sum of the DNS times in the transaction breakdown for the hour, using a weighed aggregation algorithm. |
| u_iWDnsTime_su msqr | | U_INT | milliseconds | The sum of the squares of the DNS times in the transaction breakdown for the hour, using a weighed aggregation algorithm. Can be used to calculate standard deviations. |

| Field | Display Name | Data Type | Unit | Description |
|-----------------------------|--|-----------|--------------|--|
| u_iWDownloadTi me_sum | Weighted Download Time | U_INT | milliseconds | The sum of the download times in the transaction breakdown for the hour, using a weighed aggregation algorithm. |
| u_iWDownloadTi me_sumsqr | | U_INT | milliseconds | The sum of the squares of the download times in the transaction breakdown for the hour, using a weighed aggregation algorithm. Can be used to calculate standard deviations. |
| u_iWFirstBufTime _sum | Weighted Network First Buffer Time | U_INT | milliseconds | The sum of the times to first buffer in the transaction breakdown for the hour, using a weighed aggregation algorithm. |

| Field | Display Name | Data Type | Unit | Description |
|-----------------------------|-----------------------------|-----------|--------------|---|
| u_iWFirstBufTime _sumsqr | | U_INT | milliseconds | The sum of the squares of the times to first buffer in the transaction breakdown for the hour, using a weighed aggregation algorithm. Can be used to calculate standard deviations. |
| u_iWNetTime_su m | Weighted Network Time | U_INT | milliseconds | The sum of the network times in the transaction breakdown for the hour, using a weighed aggregation algorithm. |
| u_iWNetTime_su msqr | | U_INT | milliseconds | The sum of the squares of the network times in the transaction breakdown for the hour, using a weighed aggregation algorithm. Can be used to calculate standard deviations. |

| Field | Display Name | Data Type | Unit | Description |
|--------------------------|-------------------------|-----------|--------------|---|
| u_iWRetryTime_s um | Weighted Retry Time | U_INT | milliseconds | The sum of the retry times in the transaction breakdown for the hour, using a weighed aggregation algorithm. |
| u_iWRetryTime_s umsqr | | U_INT | milliseconds | The sum of the squares of the retry times in the transaction breakdown for the hour, using a weighed aggregation algorithm. Can be used to calculate standard deviations. |
| u_iWServerTime_ sum | Weighted Server Time | U_INT | milliseconds | The sum of the server times in the transaction breakdown for the hour, using a weighed aggregation algorithm. |

| Field | Display Name | Data Type | Unit | Description |
|---------------------------|----------------------|-----------|--------------|--|
| u_iWServerTime_ sumsqr | | U_INT | milliseconds | The sum of the squares of the server times in the transaction breakdown for the hour, using a weighed aggregation algorithm. Can be used to calculate standard deviations. |
| u_iWSSLTime_su m | Weighted SSL Time | U_INT | milliseconds | The sum of the SSL times in the transaction breakdown for the hour, using a weighed aggregation algorithm. |
| u_iWSSLTime_su msqr | | U_INT | milliseconds | The sum of the squares of the SSL times in the transaction breakdown for the hour, using a weighed aggregation algorithm. Can be used to calculate standard deviations. |

Sample: Webtrace (trc_path_t)

The Webtrace sample (trc_path_t) is used by the Business Process Monitor and Client Monitor to report WebTrace data (Business Process Monitor) and traceroute data (Client Monitor).

| Field | Display Name | Data Type | Units | Description |
|--------------|--------------|-----------|--------------|---|
| iDnsTime | DNS Time | INT | | Not in use |
| iHostId | | INT | | ID of host machine from which WebTrace runs |
| iIsReachable | Is Reachable | INT | True/False | Indication of whether destination is reachable |
| iLocationId | | INT | | ID of location of host machine from which WebTrace runs |
| iRetries | Retries | INT | | The number of times a data packet tries, but fails, to reach its destination due to timeout, network difficulty, and so forth |
| iRoundTrip | Round Trip | INT | milliseconds | The average time it takes for a packet of data to be sent from the host machine to the destination Web site |

| Field | Display Name | Data Type | Units | Description |
|----------------|---------------------|-----------|-------|--|
| iSessionId | | INT | | ID of profile in which WebTrace is defined |
| profile_name | Profile Name | STRING | | Name of profile in which WebTrace is defined |
| szDstIp | Destination IP | STRING | | Destination server IP defined in the profile (in the profile you declare an IP or a destination name; WebTrace resolves the other by itself) |
| szDstName | Destination Name | STRING | | Destination server name defined in the profile (in the profile you declare an IP or a destination name; WebTrace resolves the other by itself) |
| szHostName | Host Name | STRING | | Name of host machine from which WebTrace runs |
| szLocationName | Location Name | STRING | | Location name of host machine from which WebTrace runs |

| Field | Display Name | Data Type | Units | Description |
|-----------------|--------------|-----------|--------------------------------|--|
| szSrcIp | Source IP | STRING | | IP of host machine from which WebTrace runs |
| time_stamp | | DOUBLE | seconds since Jan 1 1970 | Time stamp in seconds since Jan 1 1970 |
| trc_instance_id | | INT | | Internal ID |

Data Samples for Real User Monitor

This section describes the samples and sample fields for Real User Monitor data. These samples use the Universal Data Exchange (UDX) framework, and are thus available for filtering in the Measurement Filters page (for details, see "Working with Measurement Filters" in *Platform Administration*).

Sample: RUM Active End Users (rum_active_eu_t)

The RUM Active End Users sample (rum_active_eu_t) contains data about the end-users that were detected as having performed the most hits in the last interval. This interval is defined in Monitor Administration.

| Field | Display Name | Data Type | Units | Description |
|---------------|--------------------|-----------|-------|---|
| customer_name | | STRING | | Customer name to which the sample belongs (for Mercury Managed Services, otherwise Default client) |
| engine_id | | INT | | Mercury Business Availability Center internal Real User Monitor engine ID number |
| engine_name | Engine Name | STRING | | Real User Monitor engine name as configured in Monitor Administration |
| eu_end_ip | End User End IP | INT | | End IP address for end-user range as configured in Monitor Admistration |

| Field | Display Name | Data Type | Units | Description |
|-----------------------|--|-----------|----------------|--|
| eu_id | | INT | | Mercury Business Availability Center internal end-user ID number |
| eu_loc | End User Location | STRING | | End-user location as configured in Monitor Administration |
| eu_name | End User Domain And Subnet Range | STRING | | End-user name as configured in Monitor Administration |
| eu_start_ip | End User Start IP | INT | | Start IP address for end-user range as configured in Monitor Admistration |
| new_tot_page_hit s | New Total Page Hits | INT | number of hits | Total number of pages hit by end-user |
| profile_id | | INT | | Mercury Business Availability Center internal profile ID number (default 1) |
| profile_name | Profile Name | STRING | | Mercury Business Availability Center internal profile name |

| Field | Display Name | Data Type | Units | Description |
|-----------------|-----------------------------|-----------|--------------------------------|---|
| sampletype | | STRING | | Currently not used |
| time_stamp | | DOUBLE | seconds since Jan 1 1970 | Time stamp in seconds since Jan 1 1970 |
| tot_conn_hits | Total Connection Hits | INT | | Currently not used |
| tot_http_bytes | Total http bytes | DOUBLE | bytes | Total number of bytes sent and received by the end-user for http |
| tot_https_bytes | Total https bytes | DOUBLE | bytes | Total number of bytes sent and received by the end-user for https |
| tot_latency | Latency | DOUBLE | milliseconds | total latency of all packets sent by end-user |
| tot_page_hits | Total Page Hits | INT | number of hits | Total number of pages hit by the end-user |
| TUID | | STRING | | Internal ID from the profile database |

Sample: RUM Broken Links (rum_bro_links_t)

The RUM Broken Links sample (rum_bro_links_t) contains data about a component that was missing. Only components that were accessed from within a site defined in Monitor Administration are reported.

| Field | Display Name | Data Type | Units | Description |
|---------------|------------------|-----------|--------|---|
| availability | Availability | INT | 0 or 1 | Always 0 (not available) |
| comp_url | Component URL | STRING | | URL of component on page |
| customer_name | | STRING | | Customer name to which the sample belongs (for Mercury Managed Services, otherwise Default client) |
| engine_id | | INT | | Mercury Business Availability Center internal Real User Monitor engine ID number |
| engine_name | Engine Name | STRING | | Real User Monitor engine name as configured in Monitor Administration |

| Field | Display Name | Data Type | Units | Description |
|---------------|----------------------------|-----------|--------------------------------|---|
| profile_id | | INT | | Mercury Business Availability Center internal profile ID number (default 1) |
| profile_name | Profile Name | STRING | | Mercury Business Availability Center internal profile name |
| ref_url | Referer URL | STRING | | URL of page that requested component |
| sampletype | | STRING | | Currently not used |
| server_ip | | INT | | IP address of component server |
| server_name | Server name | STRING | | Name of component server |
| time_stamp | | DOUBLE | seconds since Jan 1 1970 | Time stamp in seconds since Jan 1 1970 |
| tot_comp_hits | Total Component Hits | INT | number of hits | Total number of components hit |
| TUID | | STRING | | Internal ID from the profile database |

Sample: RUM End Users (rum_eu_t)

The RUM End Users sample (rum_eu_t) contains aggregated data describing a specific end-user.

| Field | Display Name | Data Type | Units | Description |
|---------------|--------------------|-----------|-------|---|
| customer_name | | STRING | | Customer name to which the sample belongs (for Mercury Managed Services, otherwise Default client) |
| engine_id | | INT | | Mercury Business Availability Center internal Real User Monitor engine ID number |
| engine_name | Engine Name | STRING | | Real User Monitor engine name as configured in Monitor Administration |
| eu_end_ip | End User End IP | INT | | End IP address for end-user range as configured in Monitor Admistration |
| eu_id | | INT | | Mercury Business Availability Center internal end-user ID number |

| Field | Display Name | Data Type | Units | Description |
|-----------------------|--|-----------|----------------|--|
| eu_loc | End User Location | STRING | | End-user location as configured in Monitor Administration |
| eu_loc_city | End User Location City | STRING | | End-user city as configured in Monitor Administration |
| eu_loc_country | End User Location Country | STRING | | End-user country as configured in Monitor Administration |
| eu_loc_state | End User Location State | STRING | | End-user state as configured in Monitor Administration |
| eu_name | End User Domain And Subnet Range | STRING | | End-user name as configured in Monitor Administration |
| eu_start_ip | End User Start IP | INT | | Start IP address for end-user range as configured in Monitor Admistration |
| new_tot_page_hit s | New Total Page Hits | INT | number of hits | Total number of pages hit by end-user |

| Field | Display Name | Data Type | Units | Description |
|----------------|---|-----------|--------------------------------|---|
| profile_id | | INT | | Mercury Business Availability Center internal profile ID number (default 1) |
| profile_name | Profile Name | STRING | | Mercury Business Availability Center internal profile name |
| reporter | | INT | | Currently not used |
| sampletype | | STRING | | Currently not used |
| time_stamp | | DOUBLE | seconds since Jan 1 1970 | Time stamp in seconds since Jan 1 1970 |
| tot_conn_b_lth | Connections Below Latency Warning Threshold | INT | | Currently not used |
| tot_conn_o_lth | Total Connections over latency threshold | INT | | Currently not used |
| tot_http_bin | Total http bytes in | DOUBLE | bytes | Total size of all end-user http requests |
| tot_http_bout | Total http bytes out | DOUBLE | bytes | Total size of all end-user http replies |

| Field | Display Name | Data Type | Units | Description |
|-------------------|--|-----------|---------------------------------|--|
| tot_https_bin | Total https bytes in | DOUBLE | bytes | Total size of all end-user https requests |
| tot_https_bout | Total https bytes out | DOUBLE | bytes | Total size of all end-user https replies |
| tot_latency | Latency | DOUBLE | milliseconds | Total latency of all packets sent by end-user |
| tot_latency_b_lth | Latency Below Latency Warning Threshold | DOUBLE | milliseconds | Total latency time that was less than the threshold configured in Monitor Administration |
| tot_latency_color | | DOUBLE | number representing color | Color of end- user status in Dashboard |
| tot_latency_o_lth | Latency Over Latency Threshold | DOUBLE | milliseconds | Total latency time that was more than the threshold configured in Monitor Administration |
| tot_page_b_lth | Number Of Pages Hits Below Latency Threshold | INT | number of hits | Number of pages hit that had a latency less than the threshold configured in Monitor Administration |

| Field | Display Name | Data Type | Units | Description |
|----------------|---|-----------|-------------------|---|
| tot_page_hits | Total Page Hits | INT | number of hits | Total number of pages hit by the end-user |
| tot_page_o_lth | Number Of Page Hits Over Latency Threshold | INT | number of hits | Number of pages hit that had a latency more than the threshold configured in Monitor Administration |
| total_conn | Total Connection Hits | INT | | Currently not used |
| TUID | | STRING | | Internal ID from the profile database |

Sample: RUM Events (rum_event_t)

The RUM Events sample (rum_event_t) contains data about a defined event that was detected. The different event types are configured in Monitor Administration.

| Field | Display Name | Data Type | Units | Description |
|----------------|-------------------|-----------|-------|---|
| application_id | Application Id | INT | | Mercury Business Availability Center internal application ID number |
| bb_guid | BB GUID | STRING | | An internal, unique session ID from the Real User Monitor probe |

| Field | Display Name | Data Type | Units | Description |
|----------------|----------------------------|-----------|-------|---|
| customer_name | Customer Name | STRING | | Customer name to which the sample belongs (for Mercury Managed Services, otherwise Default client) |
| engine_id | Engine Id | INT | | Mercury Business Availability Center internal Real User Monitor engine ID number |
| eu_domain_name | End User Domain Name | STRING | | End-user group name as configured in Monitor Administration |
| eu_end_ip | End User End IP | INT | | End IP address for end-user range as configured in Monitor Admistration |
| eu_host_name | End User Host Name | STRING | | Host machine name of the end-user |
| eu_id | End User Id | INT | | Mercury Business Availability Center internal end-user ID number |

| Field | Display Name | Data Type | Units | Description |
|----------------|--|-----------|-------|--|
| eu_ip | End User IP | INT | | IP address of end-user |
| eu_loc | | STRING | | End-user location as configured in Monitor Administration |
| eu_loc_city | End User Location City | STRING | | End-user city as configured in Monitor Administration |
| eu_loc_country | End User Location Country | STRING | | End-user country as configured in Monitor Administration |
| eu_loc_state | End User Location State | STRING | | End-user state as configured in Monitor Administration |
| eu_name | End User Domain And Subnet Range | STRING | | End-user name as configured in Monitor Administration |
| eu_start_ip | End User Start IP | INT | | Start IP address for end-user range as configured in Monitor Admistration |
| eu_subnet_name | End User Subnet Name | STRING | | Currently not used |
| eu_user_name | End User Login Name | STRING | | Login name of end-user |

| Field | Display Name | Data Type | Units | Description |
|----------------|---------------------|-----------|---------------------------|---|
| event_category | Event Category | INT | | Category of event configured in Monitor Administration (for example, informational, error, http, performance) |
| event_data | Event Extra Data | STRING | alpha- numeric | Actual values returned from event |
| event_id | Event Id | INT | | Mercury Business Availability Center internal event ID number |
| event_name | Event Name | STRING | | Name of event as configured in Monitor Administration |
| event_type | Event Type | INT | number (of event type) | Event type as configured in Monitor Administration |

| Field | Display Name | Data Type | Units | Description |
|--------------|--------------|-----------|-------|---|
| page_id | Page Id | INT | | Mercury Business Availability Center internal page id of the page configured in Monitor Administration, on which the event occurred (-1 used for pages that have not been configured) |
| page_url | Page URL | STRING | | URL of the page configured in Monitor Administration, on which the event occurred |
| profile_id | Profile Id | INT | | Mercury Business Availability Center internal profile ID number (default 1) |
| profile_name | Profile Name | STRING | | Mercury Business Availability Center internal profile name |
| sampletype | | STRING | | Currently not used |
| server_ip | Server IP | INT | | IP address of component server |

| Field | Display Name | Data Type | Units | Description |
|----------------------|---|-----------|--------------------------------|---|
| session_comp_se q | Component Sequence Number in Session | INT | number | Last component sequence number on the page on which the event occurred |
| time_stamp | End Time | DOUBLE | seconds since Jan 1 1970 | Time stamp in seconds since Jan 1 1970 |
| TUID | | STRING | | Internal ID from the profile database |

Sample: RUM Pages (rum_page_t)

The RUM Pages sample (rum_page_t) contains data about a monitored page. The sample contains performance, availability, and general measurements regarding the page. Only pages that match one of the page definitions in Monitor Administration are reported to Mercury Business Availability Center.

| Field | Display Name | Data Type | Units | Description |
|----------------|--------------|-----------|-----------------|--|
| application_id | | INT | | Mercury Business Availability Center internal application ID number |
| availability | Availability | INT | number of pages | number of available pages (of the monitored page) during the time frame |

| Field | Display Name | Data Type | Units | Description |
|---------------|--------------------|-----------|-------|---|
| bb_guid | BB GUID | STRING | | An internal, unique session ID from the Real User Monitor probe |
| customer_name | | STRING | | Customer name to which the sample belongs (for Mercury Managed Services, otherwise Default client) |
| engine_id | | INT | | Mercury Business Availability Center internal Real User Monitor engine ID number |
| engine_name | Engine Name | STRING | | Real User Monitor engine name as configured in Monitor Administration |
| eu_end_ip | End User End IP | INT | | End IP address for end-user range as configured in Monitor Admistration |

| Field | Display Name | Data Type | Units | Description |
|----------------|--|-----------|-------|---|
| eu_id | | INT | | Mercury Business Availability Center internal end-user ID number |
| eu_ip | End User IP | INT | | IP address of end-user |
| eu_loc | End User Location | STRING | | End-user location as configured in Monitor Administration |
| eu_loc_city | End User Location City | STRING | | End-user city as configured in Monitor Administration |
| eu_loc_country | End User Location Country | STRING | | End-user country as configured in Monitor Administration |
| eu_loc_state | End User Location State | STRING | | End-user state as configured in Monitor Administration |
| eu_name | End User Domain And Subnet Range | STRING | | End-user name as configured in Monitor Administration |

| Field | Display Name | Data Type | Units | Description |
|-----------------------|--|-----------|--------|--|
| eu_start_ip | End User Start IP | INT | | Start IP address for end-user range as configured in Monitor Admistration |
| eu_subnet_name | End User Domain And Subnet Range | STRING | | Currently not used |
| http_err_bad_c | HTTP Error Bad Request Category | INT | | Currently not used |
| http_err_nfound_ c | HTTP Error Request Not Found Category | INT | | Currently not used |
| http_err_ref_c | HTTP Error Request Refused Category | INT | | Currently not used |
| http_err_serr_c | HTTP Error Server Errors Category | INT | | Currently not used |
| main_http_err | HTTP Response Code | INT | number | http response code for the requested page |
| page_id | | INT | | Mercury Business Availability Center internal page id of the page configured in Monitor Administration |

| Field | Display Name | Data Type | Units | Description |
|-----------------|--------------|-----------|---------------------------------|---|
| page_name | Page Name | STRING | | Name of page as configured in Monitor Administration |
| page_url | Page URL | STRING | | URL of the page configured in Monitor Administration |
| profile_id | | INT | | Mercury Business Availability Center internal profile ID number (default 1) |
| profile_name | Profile Name | STRING | | Mercury Business Availability Center internal profile name |
| reporter | | INT | | Currently not used |
| sampletype | | STRING | | Currently not used |
| server_ip | Server IP | INT | | IP address of server |
| server_name | Server Name | STRING | | Name of server |
| time_stamp | | DOUBLE | seconds since Jan 1 1970 | Time stamp in seconds since Jan 1 1970 |
| tot_avail_color | | DOUBLE | number representing color | Color representing status of page in Dashboard |

| Field | Display Name | Data Type | Units | Description |
|--------------------------|--|-----------|--------------------------|---|
| tot_client_time | Client Time | DOUBLE | milliseconds | Amount of time of total processing time between components |
| tot_components | Number of Page Components | INT | number | Total number of components on the page |
| tot_dl_b_dth | Download Time Below Download Warning Threshold | DOUBLE | milliseconds | Amount of download time less than the download warning threshold configured in Monitor Administration |
| tot_dl_o_dth | Download Time Over Download Threshold | DOUBLE | milliseconds | Amount of download time more than the download warning threshold configured in Monitor Administration |
| tot_dl_time | Download Time | DOUBLE | milliseconds | Total download time of page |
| tot_event_app_er ror | Application Errors Events | INT | number of error events | Total number of application error events on page |
| tot_event_http_er ror | HTTP Errors Events | INT | number of http errors | Total number of http errors on page |

| Field | Display Name | Data Type | Units | Description |
|----------------|--|-----------|-----------------------|--|
| tot_event_info | Non Error Events | INT | number of info events | Total number of informational event on page |
| tot_hits_b_dth | Hits Below Download Warning Threshold | INT | number of hits | Total number of hits with a download time less than the threshold configured in Monitor Administration |
| tot_hits_b_sth | Hits Below Server Warning Threshold | INT | number of hits | Total number of hits with server time less than the threshold configured in Monitor Administration |
| tot_hits_o_dth | Hits Over Download Threshold | INT | number of hits | Total number of hits with a download time more than the threshold configured in Monitor Administration |
| tot_hits_o_sth | Hits Over Server Threshold | INT | number of hits | Total number of hits with server time more than the threshold configured in Monitor Administration |
| tot_net_time | Network Time | DOUBLE | milliseconds | Total network time |

| Field | Display Name | Data Type | Units | Description |
|------------------|---|-----------|---------------------------------|--|
| tot_page_color | | DOUBLE | number representing color | Color representing status of page in Dashboard |
| tot_page_size | Page Size | DOUBLE | bytes | Total page size |
| tot_server_b_sth | Server Time Below Server Warning Threshold | DOUBLE | milliseconds | Amount of server time less than the threshold configured in Monitor Administration |
| tot_server_color | | DOUBLE | number representing color | Color representing status of server in Dashboard |
| tot_server_o_sth | Server Time Over Server Threshold | DOUBLE | milliseconds | Amount of server time more than the threshold configured in Monitor Administration |
| tot_server_time | Server Time | DOUBLE | milliseconds | Total server time |
| tot_stopped | Number Of Stopped Pages | INT | number of pages | Total number of pages stopped before their download was completed |
| total_hits | Hits | INT | number of hits | Total number of hits on page |
| TUID | | STRING | | Internal ID from the profile database |

Sample: RUM Pages with Most Errors (rum_most_error_page_t)

The RUM Pages with Most Errors sample (rum_most_error_page_t) contains data about the pages that were detected as having the most HTTP and application errors occur on them in the last interval. The pages detected do not have to be defined in Monitor Administration.

| Field | Display Name | Data Type | Units | Description |
|----------------|-------------------|-----------|-------|---|
| application_id | Application ID | INT | | Mercury Business Availability Center internal application ID number for the page |
| customer_name | | STRING | | Customer name to which the sample belongs (for Mercury Managed Services, otherwise Default client) |
| engine_id | | INT | | Mercury Business Availability Center internal Real User Monitor engine ID number |
| engine_name | Engine Name | STRING | | Real User Monitor engine name as configured in Monitor Administration |

| Field | Display Name | Data Type | Units | Description |
|--------------|--------------|-----------|--------------------------------|--|
| page_id | | INT | | Mercury Business Availability Center internal page id of the page configured in Monitor Administration |
| page_hits | | INT | number of hits | Total number of hits of the page |
| page_name | Page Name | STRING | | The meaningful name assigned to the page, if configured. |
| page_url | Page URL | STRING | | URL of the page on which most errors occurred |
| profile_id | | INT | | Mercury Business Availability Center internal profile ID number (default 1) |
| profile_name | Profile Name | STRING | | Mercury Business Availability Center internal profile name |
| time_stamp | | DOUBLE | seconds since Jan 1 1970 | Time stamp in seconds since Jan 1 1970 |

| Field | Display Name | Data Type | Units | Description |
|-----------------|-----------------------|-----------|---|---|
| tot_app_errors | Application Errors | INT | number of application errors | Total number of application errors that occurred on the page |
| tot_errors | Total Errors | INT | total number of application and HTTP errors | Total number of application and HTTP errors that occurred on the page |
| tot_http_errors | HTTP Errors | INT | number of http errors | Total number of http errors that occurred on the page |

Sample: RUM Popular Pages (rum_pop_page_t)

The RUM Popular Pages sample (rum_pop_page_t) contains data about the pages that were detected as having the highest number of hits in the last interval. The interval is defined in Monitor Administration. The pages detected do not have to be defined in Monitor Administration.

| Field | Display Name | Data Type | Units | Description |
|---------------|--------------|-----------|-------|---|
| availability | Availability | INT | | Currently not used |
| comp_url | Page URL | STRING | | URL of component on page |
| customer_name | | STRING | | Customer name to which the sample belongs (for Mercury Managed Services, otherwise Default client) |

| Field | Display Name | Data Type | Units | Description |
|--------------|--------------|-----------|-------|--|
| engine_id | | INT | | Mercury Business Availability Center internal Real User Monitor engine ID number |
| engine_name | Engine Name | STRING | | Real User Monitor engine name as configured in Monitor Administration |
| page_id | | INT | | Mercury Business Availability Center internal page id of the page configured in Monitor Administration |
| profile_id | | INT | | Mercury Business Availability Center internal profile ID number (default 1) |
| profile_name | Profile Name | STRING | | Mercury Business Availability Center internal profile name |
| sampletype | | STRING | | Currently not used |

| Field | Display Name | Data Type | Units | Description |
|---------------|--------------|-----------|--------------------------------|---|
| time_stamp | | DOUBLE | seconds since Jan 1 1970 | Time stamp in seconds since Jan 1 1970 |
| tot_page_hits | | INT | number of hits | Total number of hits of the page |
| TUID | | STRING | | Internal ID from the profile database |

Sample: RUM Servers (rum_server_t)

The RUM Servers sample (rum_server_t) contains aggregated data about a server whose traffic the Real User Monitor is listening to.

| Field | Display Name | Data Type | Units | Description |
|---------------|--------------|-----------|---------------|---|
| availability | Availability | INT | # of requests | Number of requests successfully handled by server, or with HTTP denial codes not in the range of 500- 599 |
| customer_name | | STRING | | Customer name to which the sample belongs (for Mercury Managed Services, otherwise Default client) |

| Field | Display Name | Data Type | Units | Description |
|--------------|--------------|-----------|-------|--|
| engine_id | | INT | | Mercury Business Availability Center internal Real User Monitor engine ID number |
| engine_name | Engine Name | STRING | | Real User Monitor engine name as configured in Monitor Administration |
| profile_id | | INT | | Mercury Business Availability Center internal profile ID number (default 1) |
| profile_name | Profile Name | STRING | | Mercury Business Availability Center internal profile name |
| reporter | | INT | | Currently not used |
| sampletype | | STRING | | Currently not used |
| server_ip | Server IP | INT | | IP address of component server |
| server_name | Server Name | STRING | | Name of server |

| Field | Display Name | Data Type | Units | Description |
|------------------|-------------------------------|-----------|---------------------------------|--|
| time_stamp | | DOUBLE | seconds since Jan 1 1970 | Time stamp in seconds since Jan 1 1970 |
| tot_avail_color | | DOUBLE | number representing color | Color representing status of page in Dashboard |
| tot_comp_hits | Total Component Hits | INT | number of hits | Total number of components hits |
| tot_conn_hits | Total Connection Hits | INT | | Currently not used |
| tot_http_bin | Total Http Bytes In | DOUBLE | bytes | Total size of all end-user http requests |
| tot_http_bout | Total Http Bytes Out | DOUBLE | bytes | Total size of all end-user http replies |
| tot_https_bin | Total Https Bytes In | DOUBLE | bytes | Total size of all end-user https requests |
| tot_https_bout | Total Https Bytes Out | DOUBLE | bytes | Total size of all end-user https replies |
| tot_ok_comp_hits | Total OK Component Hits | INT | number of hits | Total number of hits on components that were successfully downloaded |
| tot_page_hits | Total Page Hits | INT | number of hits | Total number of pages hit on the server |

| Field | Display Name | Data Type | Units | Description |
|------------------|-------------------|-----------|-------------------|---|
| total_hits Total | Component Hits | INT | number of hits | Total number of all component hits |
| TUID | | STRING | | Internal ID from the profile database |

Sample: RUM Sessions (rum_session_t)

The RUM Sessions sample (rum_session_t) contains information about a user session. This sample is sent only after the session has ended. The rum_session_t is always sent with the rum_session_id_t sample.

| Field | Display Name | Data Type | Units | Description |
|----------------|-------------------|-----------|-----------------|---|
| application_id | Application ID | INT | | Mercury Business Availability Center internal application ID number |
| availability | Availability | INT | number of pages | number of all available pages in the session |
| bb_guid | BB GUID | STRING | | An internal, unique session ID from the Real User Monitor probe |
| browser | Browser | STRING | | Type of browser used for the session |

| Field | Display Name | Data Type | Units | Description |
|----------------|----------------------------|-----------|--------------|---|
| customer_name | Customer Name | STRING | | Customer name to which the sample belongs (for Mercury Managed Services, otherwise Default client) |
| download_time | Download Time | DOUBLE | milliseconds | Total download time of all pages in the session |
| dwell_Time | Dwell Time | DOUBLE | | Currently not used |
| engine_id | Engine ID | INT | | Mercury Business Availability Center internal Real User Monitor engine ID number |
| eu_domain_name | End User Domain Name | STRING | | End-user group name as configured in Monitor Administration |
| eu_end_ip | End User End IP | INT | | End IP address for end-user range as configured in Monitor Admistration |
| eu_host_name | End User Host Name | STRING | | Host machine name of the end-user |

| Field | Display Name | Data Type | Units | Description |
|----------------|--|-----------|-------|---|
| eu_id | End User Id | INT | | Mercury Business Availability Center internal end-user ID number |
| eu_ip | End User IP | INT | | IP address of end-user |
| eu_loc | | STRING | | End-user location as configured in Monitor Administration |
| eu_loc_city | End User Location City | STRING | | End-user city as configured in Monitor Administration |
| eu_loc_country | End User Location Country | STRING | | End-user country as configured in Monitor Administration |
| eu_loc_state | End User Location State | STRING | | End-user state as configured in Monitor Administration |
| eu_name | End User Domain And Subnet Range | STRING | | End-user name as configured in Monitor Administration |

| Field | Display Name | Data Type | Units | Description |
|----------------|-------------------------|-----------|-------|--|
| eu_start_ip | End User Start IP | INT | | Start IP address for end-user range as configured in Monitor Admistration |
| eu_subnet_name | End User Subnet Name | STRING | | Currently not used |
| eu_user_name | End User Login Name | STRING | | Login name of end-user |
| http_version | Http Version | STRING | | http version used for session |
| os | Operating System | STRING | | Operating system used for session |
| profile_id | Profile ID | INT | | Mercury Business Availability Center internal profile ID number (default 1) |
| profile_name | Profile Name | STRING | | Mercury Business Availability Center internal profile name |
| sampletype | | STRING | | Currently not used |
| server_ip | Server IP | INT | | IP address of component server |

| Field | Display Name | Data Type | Units | Description |
|---------------------------|--------------------------|-----------|--------------------------------|---|
| session_size | Session Size | DOUBLE | bytes | Total size of all pages included in the session |
| start_time | Session Start Time | DOUBLE | seconds since Jan 1 1970 | Time that the session started |
| time_stamp | Session End Time | DOUBLE | seconds since Jan 1 1970 | Time stamp in seconds since Jan 1 1970 |
| tot_event_app_er ror | Application Errors | INT | number of events | Total number of application events that occurred in the session |
| tot_event_http_er ror | HTTP Errors | INT | number of events | Total number of http error events that occurred in the session |
| tot_event_info | Informationa l Events | INT | number of events | Total number of information events that occurred in the session |
| tot_event_perfor mance | Performance Events | INT | number of events | Total number of performance events that occurred in the session |
| tot_latency | Latency | DOUBLE | milliseconds | total latency of all packets sent by end-user in session |

| Field | Display Name | Data Type | Units | Description |
|-----------|--------------|-----------|-----------------|---|
| tot_pages | Pages Hits | INT | number of pages | Total number of pages in the session |
| TUID | | STRING | | Internal ID from the profile database |

Sample: RUM Slowest Components (rum_slow_comp_t)

The RUM Slowest Components sample (rum_slow_comp_t) contains data about the pages that were detected as having the longest download time in the last interval. The interval is defined in Monitor Administration. The pages do not have to be defined in Monitor Administration.

| Field | Display Name | Data Type | Units | Description |
|---------------|--------------|-----------|--|---|
| availability | Availability | INT | numeric value between 0 and 1 | availability of page in requested time frame |
| comp_url | Page URL | STRING | | URL of component on page |
| customer_name | | STRING | | Customer name to which the sample belongs (for Mercury Managed Services, otherwise Default client) |

| Field | Display Name | Data Type | Units | Description |
|--------------|--------------|-----------|-------|--|
| engine_id | | INT | | Mercury Business Availability Center internal Real User Monitor engine ID number |
| engine_name | Engine Name | STRING | | Real User Monitor engine name as configured in Monitor Administration |
| page_id | | INT | | Mercury Business Availability Center internal page id of the page configured in Monitor Administration |
| profile_id | | INT | | Mercury Business Availability Center internal profile ID number (default 1) |
| profile_name | Profile Name | STRING | | Mercury Business Availability Center internal profile name |
| sampletype | | STRING | | Currently not used |

| Field | Display Name | Data Type | Units | Description |
|-----------------|--------------------------|-----------|--------------------------------|---|
| time_stamp | | DOUBLE | seconds since Jan 1 1970 | Time stamp in seconds since Jan 1 1970 |
| tot_comp_hits | Page Hits | INT | number of hits | Total number of components hit |
| tot_dl | Page Download Time | DOUBLE | milliseconds | Total page download time |
| tot_server_time | Page Server Time | DOUBLE | milliseconds | Total server time |
| TUID | | STRING | | Internal ID from the profile database |

Sample: RUM Slowest End Users (rum_slow_eu_t)

The RUM Slowest End Users sample (rum_slow_eu_t) contains data about the slowest end-users that were detected in the last interval. The interval is defined in Monitor Administration. The slowest end-users are those that experienced the highest average network latency for the defined interval.

| Field | Display Name | Data Type | Units | Description |
|---------------|--------------|-----------|-------|---|
| availability | Availability | INT | | Currently not used |
| customer_name | | STRING | | Customer name to which the sample belongs (for Mercury Managed Services, otherwise Default client) |

| Field | Display Name | Data Type | Units | Description |
|-------------|--|-----------|-------|--|
| engine_id | | INT | | Mercury Business Availability Center internal Real User Monitor engine ID number |
| engine_name | Engine Name | STRING | | Real User Monitor engine name as configured in Monitor Administration |
| eu_end_ip | End User End IP | INT | | End IP address for end-user range as configured in Monitor Admistration |
| eu_id | | INT | | Mercury Business Availability Center internal end-user ID number |
| eu_loc | End User Location | STRING | | End-user location as configured in Monitor Administration |
| eu_name | End User Domain And Subnet Range | STRING | | End-user name as configured in Monitor Administration |

| Field | Display Name | Data Type | Units | Description |
|-----------------------|-----------------------------|-----------|--------------------------------|--|
| eu_start_ip | End User Start IP | INT | | Start IP address for end-user range as configured in Monitor Admistration |
| new_tot_page_hit s | New Total Page Hits | INT | number of hits | Total number of pages hit by end-user |
| profile_id | | INT | | Mercury Business Availability Center internal profile ID number (default 1) |
| profile_name | Profile Name | STRING | | Mercury Business Availability Center internal profile name |
| sampletype | | STRING | | Currently not used |
| time_stamp | | DOUBLE | seconds since Jan 1 1970 | Time stamp in seconds since Jan 1 1970 |
| tot_conn_hits | Total Connection Hits | INT | | Currently not used |
| tot_http_bytes | Total http bytes | DOUBLE | bytes | Total number of bytes sent and received by the end-user for http |

| Field | Display Name | Data Type | Units | Description |
|-------------------|----------------------|-----------|---------------------------------|---|
| tot_https_bytes | Total https bytes | DOUBLE | bytes | Total number of bytes sent and received by the end-user for https |
| tot_latency | Latency | DOUBLE | milliseconds | total latency of all packets sent by end-user |
| tot_latency_color | | DOUBLE | number representing color | Color of end- user status in Dashboard |
| tot_page_hits | Total Page Hits | INT | number of hits | Total number of pages hit by the end-user |
| TUID | | STRING | | Internal ID from the profile database |

Sample: RUM Transactions (rum_trans_t)

The RUM Transactions sample (rum_trans_t) contains data performance and availability measurements of end-user transactions that match one of the transaction definitions in Monitor Administration.

| Field | Display Name | Data Type | Units | Description |
|----------------|-------------------|-----------|-----------------------------|---|
| application_id | Application ID | INT | | Mercury Business Availability Center internal application ID number |
| availability | Availability | INT | value between 0 and 1 | availability of pages included in the transaction |

| Field | Display Name | Data Type | Units | Description |
|---------------|--------------------|-----------|-------|---|
| bb_guid | BB GUID | STRING | | An internal, unique session ID from the Real User Monitor probe |
| customer_name | | STRING | | Customer name to which the sample belongs (for Mercury Managed Services, otherwise Default client) |
| engine_id | | INT | | Mercury Business Availability Center internal Real User Monitor engine ID number |
| engine_name | Engine Name | STRING | | Real User Monitor engine name as configured in Monitor Administration |
| eu_end_ip | End User End IP | INT | | End IP address for end-user range as configured in Monitor Admistration |

| Field | Display Name | Data Type | Units | Description |
|-----------------|--|-----------|------------------------------|--|
| eu_id | | INT | | Mercury Business Availability Center internal end-user ID number |
| eu_ip | End User IP | INT | | IP address of end-user |
| eu_loc | End User Location | STRING | | End-user location as configured in Monitor Administration |
| eu_name | End User Domain And Subnet Range | STRING | | End-user name as configured in Monitor Administration |
| eu_start_ip | End User Start IP | INT | | Start IP address for end-user range as configured in Monitor Admistration |
| last_http_error | Last HTTP Error | INT | http error code number | Error code number of last http error in transaction |
| last_trans_page | Last Transaction Page | STRING | page url | URL of last page in transaction |

| Field | Display Name | Data Type | Units | Description |
|----------------|--------------------------------|-----------|--------------------------------|--|
| last_trans_pid | Last Transaction Page ID | INT | | Mercury Business Availability Center internal page ID number of the last page in transaction |
| profile_id | | INT | | Mercury Business Availability Center internal profile ID number (default 1) |
| profile_name | Profile Name | STRING | | Mercury Business Availability Center internal profile name |
| reporter | | INT | | Currently not used |
| sampletype | | STRING | | Currently not used |
| server_ip | Server IP | INT | | IP address of component server |
| server_name | First Page Server Name | STRING | | Name of server of first page in transaction |
| time_stamp | | DOUBLE | seconds since Jan 1 1970 | Time stamp in seconds since Jan 1 1970 |

| Field | Display Name | Data Type | Units | Description |
|---------------------------|---------------------------------------|-----------|---------------------------------|--|
| tot_avail_color | | DOUBLE | number representing color | Color representing status of page in Dashboard |
| tot_client_time | Client Time | DOUBLE | milliseconds | Amount of time of total processing time between components |
| tot_completed | Number of Completed Transctions | INT | number of transactions | Always 1 |
| tot_components | Number of Page Components | INT | number | Total number of components on transaction pages |
| tot_event_app_er ror | Application Errors Events | INT | number of error events | Total number of application error events in transaction |
| tot_event_http_er ror | HTTP Errors Events | INT | number of error events | Total number of http error events in transaction |
| tot_event_info | Non Error Events | INT | number of error events | Total number of information events in transaction |
| tot_event_perfor mance | Performance Events | INT | number of error events | Total number of performance events in transaction |

| Field | Display Name | Data Type | Units | Description |
|-----------------|--|-----------|---------------------------------|--|
| tot_gdl_b_gth | Gross Download Time Below Gross Warning Threshold | DOUBLE | milliseconds | Total download time of transaction less than the threshold configured in Monitor Administration |
| tot_gdl_o_gth | Gross Download Time Over Gross Threshold | DOUBLE | milliseconds | Total download time of transaction more than the threshold configured in Monitor Administration |
| tot_gdl_time | Gross Download Time | DOUBLE | milliseconds | Total download time of transaction |
| tot_gross_color | | DOUBLEe | number representing color | Color representing status of transaction in Dashboard |
| tot_hits_b_gth | Hits Below Gross Warning Threshold | INT | number of hits | Number of hits whose time was less than the gross threshold configured in Monitor Administration. Always 0 or 1 |

| Field | Display Name | Data Type | Units | Description |
|----------------|--|-----------|-------------------|--|
| tot_hits_b_nth | Hits Below Net Warning Threshold | INT | number of hits | Number of hits whose time was less than the net threshold configured in Monitor Administration. Always 0 or 1 |
| tot_hits_b_sth | Hits Below Server Warning Threshold | INT | number of hits | Number of hits whose time was less than the server threshold configured in Monitor Administration |
| tot_hits_o_gth | Hits Over Gross Threshold | INT | number of hits | Number of hits whose time was more than the gross threshold configured in Monitor Administration. Always 0 or 1 |
| tot_hits_o_nth | Hits Over Net Threshold | INT | number of hits | Number of hits whose time was more than the net threshold configured in Monitor Administration. Always 0 or 1 |

| Field | Display Name | Data Type | Units | Description |
|----------------|---|-----------|---------------------------------|--|
| tot_hits_o_sth | Hits Over Server Threshold | INT | number of hits | Number of hits whose time was more than the server threshold configured in Monitor Administration |
| tot_ndl_b_nth | Net Download Time Below Net Warning Threshold | DOUBLE | milliseconds | Total time of pages in the transaction whose time was less than the net threshold configured in Monitor Administration |
| tot_ndl_o_nth | Net Download Time Over Net Threshold | DOUBLE | milliseconds | Total time of pages in the transaction whose time was more than the net threshold configured in Monitor Administration |
| tot_ndl_time | Net Download Time | DOUBLE | milliseconds | Total net download time |
| tot_net_color | | DOUBLE | number representing color | Color representing status of transaction in Dashboard |
| tot_net_time | Network Time | DOUBLE | milliseconds | Total network time |

| Field | Display Name | Data Type | Units | Description |
|------------------|---|-----------|---------------------------------|---|
| tot_server_b_sth | Server Time Below Server Warning Threshold | DOUBLE | number of hits | Total number of hits whose time was below the threshold configured in Monitor Administration |
| tot_server_color | | DOUBLE | number representing color | Color representing status of server in Dashboard |
| tot_server_o_sth | Server Time Over Server Threshold | DOUBLE | milliseconds | Total server time more than the threshold configured in Monitor Administration |
| tot_server_time | Server Time | DOUBLE | milliseconds | Total server time |
| tot_trans_size | Transaction Size | DOUBLE | bytes | Total size of transaction |
| total_hits | Transaction Hits | INT | number of hits | Total number of hits in transaction |
| trans_id | | INT | | Mercury Business Availability Center internal transaction ID |
| trans_name | Transaction Name | STRING | alpha- numeric | Transaction name as configured in Monitor Administration |

| Field | Display Name | Data Type | Units | Description |
|-------------------------|--------------|-----------|---------------------|---|
| trans_pages_seq_i ds | | STRING | sequence numbers | String of the sequence numbers of the pages that comprise the transaction |
| TUID | | STRING | | Internal ID from the profile database |

Data Samples for Alerts

This section describes the samples and sample fields for alerts generated by the new alert engine (CI Status Alerts defined in Dashboard Administration) and the legacy alert engine (Business Process Monitor, Client Monitor, and Real User Monitor alerts defined in Platform Administration).

Sample: Alert Log (alert_log)

The Alert Log sample (alert_log) contains data generated by CI Status Alerts defined in Dashboard Administration and used when generating the Configuration Item Status Alerts report.

Limitation: There is currently no configuration item name field, and it is not possible to map CI names to their CMDB IDs (entity_id field). As such the value of this sample is limited.

This sample uses the Universal Data Exchange (UDX) framework, and is thus available for filtering in the Measurement Filters page (for details, see "Working with Measurement Filters" in *Platform Administration*).

| Field | Display Name | Data Type | Units | Description |
|---------------|------------------|-----------|-------|---|
| action | Action | STRING | | The actions performed by the alert |
| alert_id | alert_id | INT | | Alert instance ID |
| customer_name | Customer Name | STRING | | Customer name to which the sample belongs (for Mercury Managed Services, otherwise Default client) |
| entity_id | CMDB Entity id | BINARY | | Configuration ID of CI |
| kpi_name | KPI name | STRING | | The name of the KPI |
| name | Alert Name | STRING | | The name of the alert |

| Field | Display Name | Data Type | Units | Description |
|---------------|-------------------|-----------|-------|--|
| next_severity | Next Severity | INT | | The severity status of the KPI after the change that caused the alert to be sent, expresses as the ID defined in the From field in the Parameter Details window (Admin > Dashboard > Repositories > KPIs > clone/override KPI > click the Edit Entity button > Item Details > click the parameter to display the Parameter Details window) |
| obj_name | Objective name | STRING | | For future use |

| Field | Display Name | Data Type | Units | Description |
|---------------|----------------------|-----------|--------------------------------|---|
| prev_severity | Previous Severity | INT | | The severity status of the KPI before the change that caused the alert to be sent, expresses as the ID defined in the From field in the Parameter Details window (Admin > Dashboard > Repositories > KPIs > clone/override KPI > click the Edit Entity button > Item Details > click the parameter to display the Parameter Details window) |
| sampletype | | STRING | | The name of the sample. |
| send_time | Send time | DOUBLE | seconds since Jan 1 1970 | The date and time that the alert was sent, expressed in seconds since Jan 1 1970 |
| time_stamp | Time Stamp | DOUBLE | seconds since Jan 1 1970 | The date and time of the event that caused the status change, expressed in seconds since Jan 1 1970 |
| TUID | | STRING | | Internal ID |

Sample: Alerts (alarm_t)

The Alerts sample (alarm_t) contains data generated by Business Process Monitor, Client Monitor, and Real User Monitor alerts defined in Platform Administration.

| Field | Display Name | Data Type | Units | Description |
|----------------------|-----------------------|-----------|---------|--|
| alarm_id | alarm Id | INT | | ID of the alert (definition) |
| customer_name | Customer Name | STRING | | Customer name to which the sample belongs (for Mercury Managed Services, otherwise Default client) |
| dEventTimeStam p | triggered time | DOUBLE | seconds | Time of the event that triggered the alert |
| iIsLoggedOnly | Is logged Only | INT | | Determines whether the alert is logged only (1 is true or 0 is false) |
| iIsPositive | Is Positive | INT | | Determines whether the alert is a follow-up (1 is true or 0 is false) |
| iNmmtEventType Id | Nmmt Event Type Id | INT | | Obsolete |
| iNmmtId | NMMT Id | INT | | Obsolete |

| Field | Display Name | Data Type | Units | Description |
|---------------------|-----------------------|-----------|--------------------------------|---|
| iSessionId | Profile ID | INT | | Profile ID as stored in the SESSIONS table in the management database |
| iSeverityId | Severity ID | INT | | Severity of the alert |
| profile_name | Profile Name | STRING | | Profile name |
| szActionDesc | Action Description | STRING | | Action that is taken as a result of the alert |
| szAlarmDesc | Alarm Description | STRING | | Description of the alert |
| szAlarmName | Alarm Name | STRING | | Alert name |
| szNmmtEventTyp e | Nmmt Event Type | STRING | | Obsolete |
| szNmmtName | NMMT Name | STRING | | Obsolete |
| time_stamp | Time Stamp | DOUBLE | seconds since Jan 1 1970 | Time stamp in seconds since Jan 1 1970 |

Data Sample for Deep Transaction Tracing

The Deep Transaction Tracing sample (bristol_t3) contains data integrated into Mercury Business Availability Center from Bristol Technology monitoring software. This sample uses the Universal Data Exchange (UDX) framework, and is thus available for filtering in the Measurement Filters page (for details, see "Working with Measurement Filters" in *Platform Administration*).

| Field | Display Name | Data Type | Units | Description |
|-------------------------|---------------------------------|-----------|--------|---|
| bpmTransactionFi eld | Transaction Field | STRING | | The transaction name as it appears in the Business Process Monitor script |
| customer_name | Customer Name | STRING | | Customer name to which the sample belongs (for Mercury Managed Services, otherwise Default client) |
| EndTime | End Time | STRING | | The transaction end time |
| IsBPMScripted | BPM Generated Transaction | INT | 0 or 1 | If true (1), transaction initiated from a Business Process Monitor; if false (0), transaction originated from a real user. |

| Field | Display Name | Data Type | Units | Description |
|---------------------------------|---|-----------|--------------------------------|--|
| IsBPMScriptedRea lEquivalent | Is Real Correlated BPM Transaction | INT | 0 or 1 | If true (1), the sample is for real transactions, and the Business Process Monitor is also generating the same type of transaction synthetically. |
| profile_id | BPM Profile ID | INT | | The correlated Business Process Monitor profile ID |
| profile_name | Profile Name | STRING | | Business Process Monitor profile name |
| ReportingInterval | Reporting Interval | INT | seconds | The interval between samples originating from Bristol software (all transaction hits are aggregated and one aggregated data sample is sent in each interval) |
| sampletype | | STRING | | The name of the sample. |
| StartTime | Start Time | STRING | | The transaction start time |
| time_stamp | Time Stamp | DOUBLE | seconds since Jan 1 1970 | Time stamp in seconds since Jan 1 1970 |
| TUID | _ | STRING | | Internal ID |

| Field | Display Name | Data Type | Units | Description |
|-----------------------|--|-----------|-------------------|---|
| TxAvgResponseTi me | Transaction Avg ResponseTim e | DOUBLE | milli- seconds | The average response time of transactions in the Reporting Interval |
| TxClass | Transaction Class | STRING | | The transaction name as it is called in Bristol software (should be the same name as Business Process Monitor transaction name) |
| TxCount | Transaction Count | INT | | Total number of transactions in the Reporting Interval |
| TxFailedCount | Transaction Failed Count | INT | | Number of failed transactions |
| TxFailedValue | Transaction Failed Value | DOUBLE | | Total value of the failed transaction |
| TxId | BPM Transaction ID | INT | | The correlated Business Process Monitor transaction ID |
| TxLateCount | Transaction Late Count | INT | | Number of transactions that are above some response threshold (defined in Bristol software) |

| Field | Display Name | Data Type | Units | Description |
|-------------------------|--|-----------|-------------------|--|
| TxLateValue | Transaction Late Value | DOUBLE | | Total value of transaction that are late |
| TxMaxResponseTi me | Transaction Max ResponseTim e | DOUBLE | milli- seconds | The maximum response time of transactions in the Reporting Interval |
| TxMinResponseTi me | Transaction Min ResponseTim e | DOUBLE | milli- seconds | The minimum response time of transactions in the Reporting Interval |
| TxResponseThres hold | Transaction Response Threshold | DOUBLE | milli- seconds | The response time threshold |
| TxValue | Transaction Value | DOUBLE | | Total value of the specific fields read from the data (Bristol software can read real transaction values, for example, the number of dollars transferred in a transaction) |

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