# HP IT Executive Scorecard

For the Windows ® operating system

Software Version: 9.31 Cumulative Update Package 1 (CUP1)

**Release Notes** 



Document Release Date: January 2013

Software Release Date: January 2013

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The title page of this document contains the following identifying information:

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## **Release Notes**

This document provides information about the Cumulative Update Package (CUP) for Executive Scorecard 9.31.

This document is an overview of the changes made to Executive Scorecard. It contains important information that is not included in books or Help.

Note: This document is also available on the HP Software Manuals site.

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This CUP extends the integration with HP Storage Essentials. It is a post-installation feature providing an additional KPI, and extending the Storage Management context to support the KPI. The patch is installed on top of Executive Scorecard version 9.31.

**Note:** Before installing the Cumulative Update Package it is recommended to perform a full database backup. See Back Up Executive Scorecard and Data Warehouse Backups in the *Administrator Guide*.

# XS 9.31 CUP1 Files and Components

HP IT Executive Scorecard 9.31 CUP1 is packaged in the **SE Patch.rar**file (Available with the download of the version from the HP Software Support Online web site at: **http://www.hp.com/go/hpsoftwaresupport**) that includes the following components:

- The extended HP Storage Essentials Content Pack and the files needed to install it.
- Documentation file: Release Notes for the 9.31 Cumulative Update Package 1 (CUP1) document (in PDF format).

# **System Requirements**

For a list of system requirements, see *IT Executive Scorecard Support Matrix*. Check the previous Release Notes for any addition or change to the matrix.

This patch complies with the system requirements of Executive Scorecard 9.31.

## **Supported Environments**

The environments supported by Executive Scorecard are described in the 9.31 Support Matrix document available from the HP Software Product Manual Site (http://h20230.www2.hp.com/selfsolve/manuals) or from the installation DVD.

## **Supported Data Sources**

In addition to the data sources supported versions described in the Support Matrix document, the supported version of HP Storage Essentials is as follows:

| Product                    | Versions                              | Supported Databases                            |
|----------------------------|---------------------------------------|--|
| HP Storage Essentials (SE) | 9.5.1 with hotfix:<br>1868_hotfix.zip | Only sources based on Oracle 11g are supported |

## What's New

This section describes the new KPI and the changes made to the Storage Essentials context.

This section includes the following sections:

| Storage Management Context | . 8 |
|----------------------------|-----|
| KPIs and Metrics           | 20  |

### **Storage Management Context**

The HP Storage Essentials (SE) application management server enables you to obtain the latest information about your applications, such as Microsoft Exchange and Oracle. HP Storage Essentials software is a central console for managing all aspects of storage operations—assets, configuration, topology, capacity optimization, performance management, chargeback, provisioning, compliance and more. HP Storage Essentials enables you to manage complexity and growth, improve storage utilization and reduce cost, and align storage service to business needs. By integrating the tasks involved in storage management, it enables you to better align IT with your business needs

HP Storage Essentials is the data source used by the Storage Management Context (universe).

#### To access:

In Executive Scorecard, click Admin > Semantic Layer > Semantic Layer. In the Context Management page, click Launch Context Designer. In the Context Designer page, click Open an existing context, and select the Context.

### Tasks

#### **Display the Context**

- 1. In Executive Scorecard, click **Admin > Semantic Layer > Semantic Layer**. The Context Management page opens.
- 2. The list of out-of-the-box Contexts is displayed.
- 3. Click Launch Context Designer.
- 4. In the Context Designer page that opens, click Open an existing context.
- 5. Select the relevant Context.

The structure of the Context is displayed.

For additional details about Context Designer, see "Create and Manage Contexts Using Context Designer" in the *Administrator Guide*.

### Reference

#### **Context Tables and Structure**

The context includes the following tables and relationships:

| Scheme:   |   |   |  |               |  |
|---|---|---|--|---------------|--|
| Open Repository     xs.PEBIOD_DIM_V     file_D_DAMAGE_SEV     file_D_DAMAGE_SEV     file_D_DAMAGE_SEV     file_DAMAGE_SEV     file_DAMAGE_SEV | **STORAGE EVENTS J<br># ADVATED JENDS JUNALLEY<br>G Consult<br>G Consult<br>The Consult<br>G Consult<br>The Consult<br>T | к.нОСЕ.DM.V<br># (C.S.RARE.)**<br># К.J.RARE.)**<br>* К.J.RARE.<br>***<br>********************************  | **-C_10P0L00Y_0H_V<br>** OsLo_L0AAA_PY<br>** mete-c_10AAAL_PY<br>** mete-c_10AAAL_PY<br>** NC_PAAL_PY<br>** NC_PAAL_PY<br>*   | RESERVEE_DM_V | Differ<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse<br>disperse |
|   | restORACE_UTUEZAL.<br># GTORACE_FOR_DEALERY<br># Analam, Construction, DANABE<br># Discontrol of DANABE<br># Bockstate<br># Bockstate<br># Bockstate<br># Data Construction<br># Data Construction                       | RESTORACE PARTY COL.<br># IFFECTVE_PROV_DAMAL_PRY<br># STORACE_COLLECTIONAL_X<br># STORACE_COLLECTIONAL_X | RAPPLICATION DIEL V<br># CLANDEL STY<br># ROJENSESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKESSY<br>BOOKES |               |  |

#### **Statistics**

| Entity Count | Field Count | Table Count | Alias Count | Join Count |
|--------------|-------------|-------------|-------------|------------|
| 10           | 91          | 10          | 1           | 8          |

### **Model Structure**

The table lists all the views and fields included in the model even when the corresponding objects have not been selected to be part of the corresponding Context.

| Table Name           | Name                  | Туре     |
|----------------------|-----------------------|----------|
| xs.APPLICATION_DIM_V | ApplicationID         | numeric  |
| xs.APPLICATION_DIM_V | CI_DURABLE_KEY        | numeric  |
| xs.APPLICATION_DIM_V | MD_DURABLE_KEY        | numeric  |
| xs.APPLICATION_DIM_V | MonitoredBy           | nvarchar |
| xs.APPLICATION_DIM_V | Name                  | nvarchar |
| xs.CI_TOPOLOGY_DIM_V | CHILD_CI_DURABLE_KEY  | numeric  |
| xs.CI_TOPOLOGY_DIM_V | LINK_TYPE             | nvarchar |
| xs.CI_TOPOLOGY_DIM_V | PARENT_CI_DURABLE_KEY | numeric  |

| Table Name      | Name              | Туре     |
|-----------------|-------------------|----------|
| xs.NODE_DIM_V   | CI_DURABLE_KEY    | numeric  |
| xs.NODE_DIM_V   | DATE_CREATED_LOC  | datetime |
| xs.NODE_DIM_V   | DATE_MODIFIED_LOC | datetime |
| xs.NODE_DIM_V   | DESCRIPTION       | nvarchar |
| xs.NODE_DIM_V   | DISPLAY_LABEL     | nvarchar |
| xs.NODE_DIM_V   | DOMAIN_NAME       | nvarchar |
| xs.NODE_DIM_V   | FLAG_IS_DROPPED   | nvarchar |
| xs.NODE_DIM_V   | FLAG_IS_MANAGED   | nvarchar |
| xs.NODE_DIM_V   | MD_DURABLE_KEY    | numeric  |
| xs.NODE_DIM_V   | MEMORY_SIZE       | numeric  |
| xs.NODE_DIM_V   | MONITORED_BY      | nvarchar |
| xs.NODE_DIM_V   | NODE_FAMILY       | nvarchar |
| xs.NODE_DIM_V   | NODE_MODEL        | nvarchar |
| xs.NODE_DIM_V   | NODE_NAME         | nvarchar |
| xs.NODE_DIM_V   | NODE_ROLE         | nvarchar |
| xs.NODE_DIM_V   | OS                | nvarchar |
| xs.NODE_DIM_V   | OS_VENDOR         | nvarchar |
| xs.NODE_DIM_V   | TIME_ZONE         | nvarchar |
| xs.NODE_DIM_V   | VENDOR            | nvarchar |
| xs.PERIOD_DIM_V | Day               | nvarchar |
| xs.PERIOD_DIM_V | DESCRIPTION       | nvarchar |
| xs.PERIOD_DIM_V | DISPLAY_LABEL     | nvarchar |
| xs.PERIOD_DIM_V | END_DATE          | datetime |
| xs.PERIOD_DIM_V | FINANCIAL_USAGE   | nvarchar |
| xs.PERIOD_DIM_V | MD_DURABLE_KEY    | numeric  |
| xs.PERIOD_DIM_V | Month             | nvarchar |
| xs.PERIOD_DIM_V | NAME              | nvarchar |

| Table Name               | Name                | Туре     |
|--------------------------|---------------------|----------|
| xs.PERIOD_DIM_V          | PERIODICITY         | nvarchar |
| xs.PERIOD_DIM_V          | PERIOD_NUMBER       | numeric  |
| xs.PERIOD_DIM_V          | Quarter             | nvarchar |
| xs.PERIOD_DIM_V          | START_DATE          | datetime |
| xs.PERIOD_DIM_V          | Week                | nvarchar |
| xs.PERIOD_DIM_V          | Year                | nvarchar |
| xs.PERIOD_DIM_V          | Year_Number         | numeric  |
| xs.SERVICE_DIM_V         | BusinessCriticality | numeric  |
| xs.SERVICE_DIM_V         | CI_DURABLE_KEY      | numeric  |
| xs.SERVICE_DIM_V         | Description         | nvarchar |
| xs.SERVICE_DIM_V         | DisplayLabel        | nvarchar |
| xs.SERVICE_DIM_V         | Level0              | nvarchar |
| xs.SERVICE_DIM_V         | Level1              | nvarchar |
| xs.SERVICE_DIM_V         | Level2              | nvarchar |
| xs.SERVICE_DIM_V         | Level3              | nvarchar |
| xs.SERVICE_DIM_V         | Level4              | nvarchar |
| xs.SERVICE_DIM_V         | Level5              | nvarchar |
| xs.SERVICE_DIM_V         | Level6              | nvarchar |
| xs.SERVICE_DIM_V         | Level7              | nvarchar |
| xs.SERVICE_DIM_V         | Level8              | nvarchar |
| xs.SERVICE_DIM_V         | Level9              | nvarchar |
| xs.SERVICE_DIM_V         | MANAGER_DURABLE_KEY | numeric  |
| xs.SERVICE_DIM_V         | MD_DURABLE_KEY      | numeric  |
| xs.SERVICE_DIM_V         | Name                | nvarchar |
| xs.SERVICE_DIM_V         | State               | nvarchar |
| xs.SERVICE_DIM_V         | Туре                | nvarchar |
| xs.STORAGE_EVENTS_FACT_V | Component           | nvarchar |

| Table Name                            | Name                              | Туре     |
|---------------------------------------|-----------------------------------|----------|
| xs.STORAGE_EVENTS_FACT_V              | Date_Reported                     | datetime |
| xs.STORAGE_EVENTS_FACT_V              | Event_Source                      | nvarchar |
| xs.STORAGE_EVENTS_FACT_V              | Event_Subtype                     | nvarchar |
| xs.STORAGE_EVENTS_FACT_V              | Event_Summary                     | nvarchar |
| xs.STORAGE_EVENTS_FACT_V              | Event_Type                        | nvarchar |
| xs.STORAGE_EVENTS_FACT_V              | Ind_Cleared                       | numeric  |
| xs.STORAGE_EVENTS_FACT_V              | MD_DURABLE_KEY                    | numeric  |
| xs.STORAGE_EVENTS_FACT_V              | NODE_DURABLE_KEY                  | numeric  |
| xs.STORAGE_EVENTS_FACT_V              | REPORTED_PERIOD_<br>DURABLE_KEY   | numeric  |
| xs.STORAGE_EVENTS_FACT_V              | Severity                          | nvarchar |
| xs.STORAGE_UTILIZATION_FACT_V         | Available_Capacity                | float    |
| xs.STORAGE_UTILIZATION_FACT_V         | COLLECTION_PERIOD_<br>DURABLE_KEY | numeric  |
| xs.STORAGE_UTILIZATION_FACT_V         | Date_Collected                    | datetime |
| xs.STORAGE_UTILIZATION_FACT_V         | MD_DURABLE_KEY                    | numeric  |
| xs.STORAGE_UTILIZATION_FACT_V         | Storage_Data_Type                 | nvarchar |
| xs.STORAGE_UTILIZATION_FACT_V         | STORAGE_NODE_DURABLE_<br>KEY      | numeric  |
| xs.STORAGE_UTILIZATION_FACT_V         | Storage_Technology                | nvarchar |
| xs.STORAGE_UTILIZATION_FACT_V         | Total_Capacity                    | float    |
| xs.STORAGE_UTILIZATION_FACT_V         | Used_Capacity                     | float    |
| xs.STORAGE_PATH_COMPLIANCE_<br>FACT_V | MD_DURABLE_KEY                    | NUMERIC  |
| xs.STORAGE_PATH_COMPLIANCE_<br>FACT_V | STORAGE_VOLUME_DURABLE_<br>KEY    | NUMERIC  |
| xs.STORAGE_PATH_COMPLIANCE_<br>FACT_V | EFFECTIVE_PERIOD_DURABLE_<br>KEY  | NUMERIC  |
| xs.STORAGE_PATH_COMPLIANCE_<br>FACT_V | EFFECTIVE_DATE                    | DATE     |

| Table Name                            | Name             | Туре     |
|---------------------------------------|------------------|----------|
| xs.STORAGE_PATH_COMPLIANCE_<br>FACT_V | COUNT_PATHS      | NUMERIC  |
| xs.STORAGE_VOLUME_DIM_V               | MD_DURABLE_KEY   | NUMERIC  |
| xs.STORAGE_VOLUME_DIM_V               | NODE_DURABLE_KEY | NUMERIC  |
| xs.STORAGE_VOLUME_DIM_V               | CREATED_DATE     | DATE     |
| xs.STORAGE_VOLUME_DIM_V               | MODIFIED_DATE    | DATE     |
| xs.STORAGE_VOLUME_DIM_V               | DISPLAY_LABEL    | NVARCHAR |
| xs.STORAGE_VOLUME_DIM_V               | NAME             | NVARCHAR |

### Object List

The table lists all the entities and fields of the model that were selected to be part of the Context.

| Entity Name          | Field Name        | Source Table<br>Name          | Alias<br>Table<br>Name    | DB Column<br>Name | Field<br>Type |
|----------------------|-------------------|-------------------------------|---------------------------|-------------------|---------------|
| Application          | ApplicationID     | xs.A-<br>PPLICATION_<br>DIM_V |                           | ApplicationID     | NUMER-<br>IC  |
| Application          | MonitoredBy       | xs.A-<br>PPLICATION_<br>DIM_V |                           | MonitoredBy       | STRING        |
| Application          | Name              | xs.A-<br>PPLICATION_<br>DIM_V |                           | Name              | STRING        |
| CITopology           | LinkType          | xs.CI_<br>TOPOLOGY_<br>DIM_V  |                           | LINK_TYPE         | STRING        |
| Effec-<br>tivePeriod | Day               | xs.PERIOD_<br>DIM_V           | xs.PER-<br>IOD_DIM_<br>V1 | Day               | STRING        |
| Effec-<br>tivePeriod | DESCRIPTION       | xs.PERIOD_<br>DIM_V           | xs.PER-<br>IOD_DIM_<br>V1 | DESCRIP-<br>TION  | STRING        |
| Effec-<br>tivePeriod | DISPLAY_<br>LABEL | xs.PERIOD_<br>DIM_V           | xs.PER-<br>IOD_DIM_<br>V1 | DISPLAY_<br>LABEL | STRING        |

| Entity Name          | Field Name             | Source Table<br>Name | Alias<br>Table<br>Name    | DB Column<br>Name      | Field<br>Type |
|----------------------|------------------------|----------------------|---------------------------|------------------------|---------------|
| Effec-<br>tivePeriod | END_DATE               | xs.PERIOD_<br>DIM_V  | xs.PER-<br>IOD_DIM_<br>V1 | END_DATE               | DATE          |
| Effec-<br>tivePeriod | FINANCIAL_<br>USAGE    | xs.PERIOD_<br>DIM_V  | xs.PER-<br>IOD_DIM_<br>V1 | FINANCIAL_<br>USAGE    | STRING        |
| Effec-<br>tivePeriod | MD_<br>DURABLE_<br>KEY | xs.PERIOD_<br>DIM_V  | xs.PER-<br>IOD_DIM_<br>V1 | MD_<br>DURABLE_<br>KEY | NUMER-<br>IC  |
| Effec-<br>tivePeriod | Month                  | xs.PERIOD_<br>DIM_V  | xs.PER-<br>IOD_DIM_<br>V1 | Month                  | STRING        |
| Effec-<br>tivePeriod | NAME                   | xs.PERIOD_<br>DIM_V  | xs.PER-<br>IOD_DIM_<br>V1 | NAME                   | STRING        |
| Effec-<br>tivePeriod | PERIODICITY            | xs.PERIOD_<br>DIM_V  | xs.PER-<br>IOD_DIM_<br>V1 | PERIODICITY            | STRING        |
| Effec-<br>tivePeriod | PERIOD_<br>NUMBER      | xs.PERIOD_<br>DIM_V  | xs.PER-<br>IOD_DIM_<br>V1 | PERIOD_<br>NUMBER      | NUMER-<br>IC  |
| Effec-<br>tivePeriod | Quarter                | xs.PERIOD_<br>DIM_V  | xs.PER-<br>IOD_DIM_<br>V1 | Quarter                | STRING        |
| Effec-<br>tivePeriod | START_DATE             | xs.PERIOD_<br>DIM_V  | xs.PER-<br>IOD_DIM_<br>V1 | START_DATE             | DATE          |
| Effec-<br>tivePeriod | Week                   | xs.PERIOD_<br>DIM_V  | xs.PER-<br>IOD_DIM_<br>V1 | Week                   | STRING        |
| Effec-<br>tivePeriod | Year                   | xs.PERIOD_<br>DIM_V  | xs.PER-<br>IOD_DIM_<br>V1 | Year                   | STRING        |
| Effec-<br>tivePeriod | Year_Number            | xs.PERIOD_<br>DIM_V  | xs.PER-<br>IOD_DIM_<br>V1 | Year_Number            | NUMER-<br>IC  |

| Entity Name | Field Name           | Source Table<br>Name | Alias<br>Table<br>Name | DB Column<br>Name         | Field<br>Type |
|-------------|----------------------|----------------------|------------------------|---------------------------|---------------|
| Node        | DateC-<br>reatedLoc  | xs.NODE_DIM_<br>V    |                        | DATE_<br>CREATED_<br>LOC  | DATE          |
| Node        | Date-<br>ModifiedLoc | xs.NODE_DIM_<br>V    |                        | DATE_<br>MODIFIED_<br>LOC | DATE          |
| Node        | Description          | xs.NODE_DIM_<br>V    |                        | DESCRIP-<br>TION          | STRING        |
| Node        | DisplayLabel         | xs.NODE_DIM_<br>V    |                        | DISPLAY_<br>LABEL         | STRING        |
| Node        | DomainName           | xs.NODE_DIM_<br>V    |                        | DOMAIN_<br>NAME           | STRING        |
| Node        | FlagIsDropped        | xs.NODE_DIM_<br>V    |                        | FLAG_IS_<br>DROPPED       | STRING        |
| Node        | FlagIsManaged        | xs.NODE_DIM_<br>V    |                        | FLAG_IS_<br>MANAGED       | STRING        |
| Node        | MemorySize           | xs.NODE_DIM_<br>V    |                        | MEMORY_<br>SIZE           | NUMER-<br>IC  |
| Node        | MonitoredBy          | xs.NODE_DIM_<br>V    |                        | MONITORED_<br>BY          | STRING        |
| Node        | NodeFamily           | xs.NODE_DIM_<br>V    |                        | NODE_<br>FAMILY           | STRING        |
| Node        | NodeModel            | xs.NODE_DIM_<br>V    |                        | NODE_<br>MODEL            | STRING        |
| Node        | NodeName             | xs.NODE_DIM_<br>V    |                        | NODE_NAME                 | STRING        |
| Node        | NodeRule             | xs.NODE_DIM_<br>V    |                        | NODE_ROLE                 | STRING        |
| Node        | OS                   | xs.NODE_DIM_<br>V    |                        | OS                        | STRING        |
| Node        | OsVendor             | xs.NODE_DIM_<br>V    |                        | OS_VENDOR                 | STRING        |
| Node        | TimeZone             | xs.NODE_DIM_<br>V    |                        | TIME_ZONE                 | STRING        |

| Entity Name | Field Name               | Source Table<br>Name | Alias<br>Table<br>Name | DB Column<br>Name        | Field<br>Type |
|-------------|--------------------------|----------------------|------------------------|--------------------------|---------------|
| Node        | Vendor                   | xs.NODE_DIM_<br>V    |                        | VENDOR                   | STRING        |
| Period      | Day                      | xs.PERIOD_<br>DIM_V  |                        | Day                      | STRING        |
| Period      | Description              | xs.PERIOD_<br>DIM_V  |                        | DESCRIP-<br>TION         | STRING        |
| Period      | DisplayLabel             | xs.PERIOD_<br>DIM_V  |                        | DISPLAY_<br>LABEL        | STRING        |
| Period      | EndDate                  | xs.PERIOD_<br>DIM_V  |                        | END_DATE                 | DATE          |
| Period      | FinancialUsage           | xs.PERIOD_<br>DIM_V  |                        | FINANCIAL_<br>USAGE      | STRING        |
| Period      | Month                    | xs.PERIOD_<br>DIM_V  |                        | Month                    | STRING        |
| Period      | Name                     | xs.PERIOD_<br>DIM_V  |                        | NAME                     | STRING        |
| Period      | Periodicity              | xs.PERIOD_<br>DIM_V  |                        | PERIODICITY              | STRING        |
| Period      | PeriodNumber             | xs.PERIOD_<br>DIM_V  |                        | PERIOD_<br>NUMBER        | NUMER-<br>IC  |
| Period      | Quarter                  | xs.PERIOD_<br>DIM_V  |                        | Quarter                  | STRING        |
| Period      | StartDate                | xs.PERIOD_<br>DIM_V  |                        | START_DATE               | DATE          |
| Period      | Week                     | xs.PERIOD_<br>DIM_V  |                        | Week                     | STRING        |
| Period      | Year                     | xs.PERIOD_<br>DIM_V  |                        | Year                     | STRING        |
| Period      | YearNumber               | xs.PERIOD_<br>DIM_V  |                        | Year_Number              | NUMER-<br>IC  |
| Service     | Busi-<br>nessCriticality | xs.SERVICE_<br>DIM_V |                        | Busi-<br>nessCriticality | NUMER-<br>IC  |

| Entity Name   | Field Name   | Source Table<br>Name             | Alias<br>Table<br>Name | DB Column<br>Name | Field<br>Type |
|---------------|--------------|----------------------------------|------------------------|-------------------|---------------|
| Service       | Description  | xs.SERVICE_<br>DIM_V             |                        | Description       | STRING        |
| Service       | DisplayLabel | xs.SERVICE_<br>DIM_V             |                        | DisplayLabel      | STRING        |
| Service       | Level0       | xs.SERVICE_<br>DIM_V             |                        | Level0            | STRING        |
| Service       | Level1       | xs.SERVICE_<br>DIM_V             |                        | Level1            | STRING        |
| Service       | Level2       | xs.SERVICE_<br>DIM_V             |                        | Level2            | STRING        |
| Service       | Level3       | xs.SERVICE_<br>DIM_V             |                        | Level3            | STRING        |
| Service       | Level4       | xs.SERVICE_<br>DIM_V             |                        | Level4            | STRING        |
| Service       | Level5       | xs.SERVICE_<br>DIM_V             |                        | Level5            | STRING        |
| Service       | Level6       | xs.SERVICE_<br>DIM_V             |                        | Level6            | STRING        |
| Service       | Level7       | xs.SERVICE_<br>DIM_V             |                        | Level7            | STRING        |
| Service       | Level8       | xs.SERVICE_<br>DIM_V             |                        | Level8            | STRING        |
| Service       | Level9       | xs.SERVICE_<br>DIM_V             |                        | Level9            | STRING        |
| Service       | Name         | xs.SERVICE_<br>DIM_V             |                        | Name              | STRING        |
| Service       | State        | xs.SERVICE_<br>DIM_V             |                        | State             | STRING        |
| Service       | Туре         | xs.SERVICE_<br>DIM_V             |                        | Туре              | STRING        |
| StorageEvents | Component    | xs.STORAGE_<br>EVENTS_<br>FACT_V |                        | Component         | STRING        |

| Entity Name               | Field Name                               | Source Table<br>Name                          | Alias<br>Table<br>Name | DB Column<br>Name                        | Field<br>Type |
|---------------------------|--|---|------------------------|--|---------------|
| StorageEvents             | DateReported                             | xs.STORAGE_<br>EVENTS_<br>FACT_V              |                        | Date_Reported                            | DATE          |
| StorageEvents             | EventSource                              | xs.STORAGE_<br>EVENTS_<br>FACT_V              |                        | Event_Source                             | STRING        |
| StorageEvents             | EventSubtype                             | xs.STORAGE_<br>EVENTS_<br>FACT_V              |                        | Event_Subtype                            | STRING        |
| StorageEvents             | EventSummary                             | xs.STORAGE_<br>EVENTS_<br>FACT_V              |                        | Event_<br>Summary                        | STRING        |
| StorageEvents             | EventType                                | xs.STORAGE_<br>EVENTS_<br>FACT_V              |                        | Event_Type                               | STRING        |
| StorageEvents             | IndCleared                               | xs.STORAGE_<br>EVENTS_<br>FACT_V              |                        | Ind_Cleared                              | NUMER-<br>IC  |
| StorageEvents             | Severity                                 | xs.STORAGE_<br>EVENTS_<br>FACT_V              |                        | Severity                                 | STRING        |
| StoragePath<br>Compliance | COUNT_<br>PATHS                          | xs.STORAGE_<br>PATH_<br>COMPLIANCE_<br>FACT_V |                        | COUNT_<br>PATHS                          | NUMER-<br>IC  |
| StoragePath<br>Compliance | EFFECTIVE_<br>DATE                       | xs.STORAGE_<br>PATH_<br>COMPLIANCE_<br>FACT_V |                        | EFFECTIVE_<br>DATE                       | DATE          |
| StoragePath<br>Compliance | EFFECTIVE_<br>PERIOD_<br>DURABLE_<br>KEY | xs.STORAGE_<br>PATH_<br>COMPLIANCE_<br>FACT_V |                        | EFFECTIVE_<br>PERIOD_<br>DURABLE_<br>KEY | NUMER-<br>IC  |
| StoragePath<br>Compliance | MD_<br>DURABLE_<br>KEY                   | xs.STORAGE_<br>PATH_<br>COMPLIANCE_<br>FACT_V |                        | MD_<br>DURABLE_<br>KEY                   | NUMER-<br>IC  |

| Entity Name               | Field Name                             | Source Table<br>Name                          | Alias<br>Table<br>Name | DB Column<br>Name                      | Field<br>Type |
|---------------------------|--|---|------------------------|--|---------------|
| StoragePath<br>Compliance | STORAGE_<br>VOLUME_<br>DURABLE_<br>KEY | xs.STORAGE_<br>PATH_<br>COMPLIANCE_<br>FACT_V |                        | STORAGE_<br>VOLUME_<br>DURABLE_<br>KEY | NUMER-<br>IC  |
| Stor-<br>ageUtilization   | Avail-<br>ableCapacity                 | xs.STORAGE_<br>UTILIZATION_<br>FACT_V         |                        | Available_<br>Capacity                 | NUMER-<br>IC  |
| Stor-<br>ageUtilization   | DateCollected                          | xs.STORAGE_<br>UTILIZATION_<br>FACT_V         |                        | Date_Collected                         | DATE          |
| Stor-<br>ageUtilization   | Stor-<br>ageDataType                   | xs.STORAGE_<br>UTILIZATION_<br>FACT_V         |                        | Storage_Data_<br>Type                  | STRING        |
| Stor-<br>ageUtilization   | Stor-<br>ageTechnology                 | xs.STORAGE_<br>UTILIZATION_<br>FACT_V         |                        | Storage_<br>Technology                 | STRING        |
| Stor-<br>ageUtilization   | TotalCapacity                          | xs.STORAGE_<br>UTILIZATION_<br>FACT_V         |                        | Total_Capacity                         | NUMER-<br>IC  |
| Stor-<br>ageUtilization   | UsedCapacity                           | xs.STORAGE_<br>UTILIZATION_<br>FACT_V         |                        | Used_Capacity                          | NUMER-<br>IC  |
| Stor-<br>ageVolume        | CREATED_<br>DATE                       | xs.STORAGE_<br>VOLUME_DIM_<br>V               |                        | CREATED_<br>DATE                       | DATE          |
| Stor-<br>ageVolume        | DISPLAY_<br>LABEL                      | xs.STORAGE_<br>VOLUME_DIM_<br>V               |                        | DISPLAY_<br>LABEL                      | STRING        |
| Stor-<br>ageVolume        | MD_<br>DURABLE_<br>KEY                 | xs.STORAGE_<br>VOLUME_DIM_<br>V               |                        | MD_<br>DURABLE_<br>KEY                 | NUMER-<br>IC  |
| Stor-<br>ageVolume        | MODIFIED_<br>DATE                      | xs.STORAGE_<br>VOLUME_DIM_<br>V               |                        | MODIFIED_<br>DATE                      | DATE          |
| Stor-<br>ageVolume        | NAME                                   | xs.STORAGE_<br>VOLUME_DIM_<br>V               |                        | NAME                                   | STRING        |

| Entity Name        | Field Name               | Source Table<br>Name            | Alias<br>Table<br>Name | DB Column<br>Name        | Field<br>Type |
|--------------------|--------------------------|---------------------------------|------------------------|--------------------------|---------------|
| Stor-<br>ageVolume | NODE_<br>DURABLE_<br>KEY | xs.STORAGE_<br>VOLUME_DIM_<br>V |                        | NODE_<br>DURABLE_<br>KEY | NUMER-<br>IC  |

### **KPIs and Metrics**

The KPIs and Metrics that are part of the extended HP Storage Essentials Content Pack are:

| % of Storage Utilization          | .21 |
|-----------------------------------|-----|
| Average Number of Storage Paths   | .22 |
| Number of Critical Storage Events | .23 |
| Storage Path Compliance           | .24 |

### % of Storage Utilization

| Component Type            | KPI   | КРІ  |   |  |  |  |
|---------------------------|---|--|---|--|--|--|
| Business Questions        | storage. If the stora<br>over-utilized, it can<br>This allows the CIC<br>seeing quickly whe | <ul> <li>"The motivation for measuring this KPI is to receive an accurate measurement of the utilization rate of storage. If the storages are not utilized enough, it can provide a cost reduction opportunity. If they are over-utilized, it can imply that further investment is required.</li> <li>This allows the CIO/VP to verify how much capacity is used for SAN attached storage. This allows seeing quickly where capacity can be reassigned, where new storage needs to be purchased, where storage is growing rapidly, etc.</li> </ul> |   |  |  |  |
| <b>Business Objective</b> | Reduce Cost   |  |   |  |  |  |
| Description               | The total storage sy  | stem capacity that is in use relative  | e to the total storage system capacity. |  |  |  |
| Context                   | StorageManageme   | StorageManagement  |   |  |  |  |
| Data source               | SE  | SE   |   |  |  |  |
| Formula                   | _   | PERCENTAGE_MATH( SUM( StorageUtilization.UsedCapacity , Node.FlagIsDropped='N' ), SUM( StorageUtilization.TotalCapacity , Node.FlagIsDropped ='N'),0)  |   |  |  |  |
| KPI Formula Filter        | N/A   | N/A  |   |  |  |  |
| Unit Type                 | %   | %  |   |  |  |  |
| Time Period               | Monthly   | Monthly  |   |  |  |  |
| Direction                 | Maximize  | Maximize   |   |  |  |  |
| Thresholds                | 0 to 40   | 40 to 80   | 80 to 100                               |  |  |  |
| Release                   | 9.31  |  |   |  |  |  |

### Average Number of Storage Paths

| Component Type            | Metric   |
|---------------------------|--|
| <b>Business Questions</b> |  |
| Business Objective        | N/A  |
| Description               | <ol> <li>The average number of storage volume paths in the environment. Note:</li> <li>It will count from both host side (mounted) and storage side (not mounted).</li> <li>It will not return storage volumes for devices connected in a DAS configuration.</li> <li>If any of the path elements (switch, hosts or array) are missing in SE Discovery, it will not be able to get paths information.</li> </ol> |
| Context                   | StorageManagement  |
| Data source               | SE   |
| Formula                   | AVG( StoragePathCompliance.COUNT_PATHS , StorageVolume.DISPLAY_LABEL = 'Storage Volume' and Node.FlagIsDropped = 'N' and Node.MonitoredBy = 'Storage Essential' )  |
| KPI Formula Filter        | N/A  |
| Unit Type                 | #  |
| Time Period               | Monthly  |
| Direction                 | N/A  |
| Thresholds                | N/A  |
| Release                   | 9.31   |

### Number of Critical Storage Events

| Component Type     | KPI  |  |  |  |  |
|--------------------|--|--|--|--|--|
| Business Questions | This use case would allow the CIO/VP to see what critical issues need urgent attention. This may allow doing some high level event analysis to see the impact of downtime, or service interventions needed. The customer can define the criteria for the alarm levels, and which alarm levels they want to monitor, for instance critical only, major and above, minor and above, warning and above. A drill-down into the details is offered as well: |  |  |  |  |
|                    | <ul> <li>If # of Critical + major events shows greater than or equal to 10, the status shows red.</li> <li>If # of Critical + major events shows between 5 and 10, the status shows yellow.</li> </ul>   |  |  |  |  |
|                    | <ul> <li>If # of Critical + major events shows less than or equal to=5, the status shows green.</li> </ul>   |  |  |  |  |
|                    |  |  |  |  |  |
| Business Objective | Reduce Risk  |  |  |  |  |
| Description        | List of storage events from storage devices with critical or major severity.   |  |  |  |  |
| Context            | StorageManagement  |  |  |  |  |
| Data source        | SE   |  |  |  |  |
| Formula            | COUNT( StorageEvents.Component , StorageEvents.DateReported IN_PERIOD And (StorageEvents.Severity = 'critical' Or StorageEvents.Severity = 'major' ))  |  |  |  |  |
| KPI Formula Filter | N/A  |  |  |  |  |
| Unit Type          | #  |  |  |  |  |
| Time Period        | Monthly  |  |  |  |  |
| Direction          | Maximize   |  |  |  |  |
| Thresholds         | 0 to 5 5 to 10 >10   |  |  |  |  |
| Release            | 9.31   |  |  |  |  |

### **Storage Path Compliance**

| Component Type  | KPI  | KPI  |                                |  |  |  |
|---|--|--|--------------------------------|--|--|--|
| <b>Business Questions</b>   |  |  |                                |  |  |  |
| Business Objective  | Reduce Cost  |  |                                |  |  |  |
| Description   | The total storage volume paths in the environment where the paths to a particular storage volume meet the minimum standard relative to the total storage volume paths in the environment . Note: |  |                                |  |  |  |
| 1. The path compliance is default to 2, but it could be customizable by the customer formula. |  |  | ble by the customer in the KPI |  |  |  |
| 2. It will count from both host side (mounted) and storage side (not mounted).                |  |  | not mounted).                  |  |  |  |
|   | 3. It will not return storage v  | olumes for devices connected in a D  | DAS configuration.             |  |  |  |
|   | 4. If any of the path elements (switch, hosts or array) are missing in SE Discovery, it will not be able to get paths information."  |  |                                |  |  |  |
| Context   | StorageManagement  |  |                                |  |  |  |
| Data source   | SE   | SE   |                                |  |  |  |
| Formula   | PERCENTAGE(StoragePath   | PERCENTAGE(StoragePathCompliance,StoragePathCompliance.COUNT_PATHS >= 2, *, 100) |                                |  |  |  |
| KPI Formula Filter  | N/A  | N/A  |                                |  |  |  |
| Unit Type   | %  |  |                                |  |  |  |
| Time Period   | Monthly  |  |                                |  |  |  |
| Direction   | Maximize   |  |                                |  |  |  |
| Thresholds  | 0 to 40  | 40 to 80   | 80 to 100                      |  |  |  |
| Release   | 9.31   |  |                                |  |  |  |

# Install 9.31 CUP1

The installation of CUP for HP IT Executive Scorecard is performed using an automated procedure that includes the installation wizard.

- 1. Prerequisites:
  - a. Install the 1868\_hotfix.zip over the supported version of HP Storage Essentials.
  - b. Make sure that you have installed Executive Scorecard version 9.31.

**Important:** The XS 9.31 CUP1 can be installed only on top of HP IT Executive Scorecard version 9.31. If your version is not 9.31, you must upgrade to the 9.31 version before deploying the CUP.

- 2. Perform a full database backup, as follows:
  - Check for Invalid objects inside the database. There should be no invalid objects, especially in the Master, Staging, or Target schemas. You should fix them by recompiling them.
  - Stop all applications and services (like ABC and ETLs) that make connections to the XS SQLServer 2008 instances.
  - Make sure that there are no active connections in the databases.
  - Note that the recommended disk space requirements are approximately 1.5 times the total size of the DB.
  - Use backup compression, and schemas backup to speed up the backups, which make the files much smaller.
  - Direct the backups to a central network share with different computers. Do not put the backups on the same physical store as your database files.
  - Perform a backup using SQLServer 2008 backup utilities. Each of the databases below contain schemas:
    - Staging DB (including schemas like: dws, dwst, dwmetadata, dwabc)
    - Target DB
    - SAP BusinessObjects Data Services database (BODS repository)
  - Optional: Gather Performance Data- Measure and gather key performance metrics, like ETL times, long running SQLs (using profiler), O/S, and machine resource utilizations metrics. This is useful for baseline references for later usage after applying the patch, and to check if performance degradation has occurred.
  - **Optional:** Backup SQLServer system databases (master, model, and so on) and the Transaction LOG that will also truncate it, to keep it from becoming full during the upgrade.

Backup the system databases before the upgrade to allow for all of the unexpected instance changes during upgrade. This helps to recover to the point of time and structure before the upgrade.

**Note:** Keep the passwords for the Staging, Target, and SAP BusinessObjects Data Services database login users in a safe place for use in disaster recovery situations.

It is recommended to practice recovery operations while simulating different failures.
 Examples below:

#### STAGING Backup Example:

```
BACKUP DATABASE [STAGING] TO
           DISK = '<FullPath>\STAGING.bak' WITH
            NOFORMAT, COMPRESS,
            INIT,
           NAME = 'STAGING-Full Database Backup',
            SKIP,
           NOREWIND,
           NOUNLOAD,
           STATS = 10,
           CHECKSUM
      GO
Backup Verification (OPTIONAL)
      DECLARE @backupSetId AS INT
      SELECT @backupSetId = position
      FROM msdb..backupset
      WHERE database_name = '<STAGING>'
           AND backup_set_id = (SELECT max (backup_set_id)
                                FROM msdb..backupset
                                WHERE database_name = '<STAGING>')
      IF @backupSetId IS NULL
        BEGIN
           RAISERROR ('Verify failed. Backup information for database
      ''STAGING'' not found.', 16, 1)
        END
      RESTORE VERIFYONLY FROM DISK =
        '<FullPath>\STAGING.bak' WITH FILE = @backupSetId, NOUNLOAD, NOREWIND
      GO
```

- 3. If you have received private patches you must delete them before performing the patch installation.
- 3. CUP Installation and Post Install wizard

**Note:** When you install the CUP 1 on a distributed environment, it must first be installed on the Data Warehouse server and then on the Executive Scorecard server.

- Stop the Glassfish server before beginning installation. Navigate to: Start > All Programs > HP Executive Scorecard > Administration > Disable HP Executive Scorecard.
- 5. Unpack the .ZIP file into c:\HPXS\agora\ContentPacks to override the SE and Core folders.
- 6. Execute the command C:\HPXS\agora\DataWarehouse\bin\dw\_ds\_automation.bat -task Redeploy -cp CORE to redeploy the Core content pack.
- 7. If you have already installed XS 9.31:

- a. And you have already deployed the SE Content Pack, execute the command
   C:\HPXS\agora\DataWarehouse\bin\dw\_ds\_automation.bat -task Redeploy -cp SE to redeploy the SE Content Pack.
- b. And you have not yet deployed the SE Content Pack:
  - i. Go to C:\HPXS\agora\ContentPacks\SE\conf to configure the dataSources.xml.
  - ii. Execute the dw\_ds\_automation.bat -task ConfigureInitial -cp SE -xmlFilePath C:\HPXS\agora\ContentPacks\SE\conf\dataSources.xml command.
  - iii. Execute the command C:\HPXS\agora\DataWarehouse\bin\dw\_ds\_ automation.bat -task deploy -cp SE to deploy the SE Content Pack.
- 8. Execute the command C:\HPXS\agora\DataWarehouse\bin\dw\_ds\_automation.bat -task Activate -cp SE to activate the SE Content Pack.
- Copy the [xs].[STORAGE\_VOLUME\_DIM\_V] and [xs].[STORAGE\_PATH\_COMPLIANCE\_ FACT\_V] view creation statements from dwh\_target\_views.sql, and execute them in the target database to create the target view for the SE Context.
- 10. Copy **StorageManagement.xml** to the folder **C:\HPXS\agora\glassfish\glassfish\domains\BTOA\config\context\import\load**.
- 11. Open the C:\HPXS\agora\jdk\bin\jconsole.exe file:
  - a. Select the option remote process.
  - b. Input localhost:10008.
  - c. Click **MBeans** and select **com.hp.btoe.Xs2go.jmx->ContextImport->Operations-**>importForTenant.
  - d. Click the importForTenant button to import the SE Context into the database.
- Copy IndustryStandard.xml, BusinessScorecards.xml, HPPortfolio.xml,Storage\_Path\_ Compliance.xml, Average\_Number\_of\_Storage\_Paths.xml to the C:\HPXS\agora\glassfish\glassfish\domains\BTOA\config\kpitemplates\import\load folder.
- Open the Jconsole, select com.hp.btoe.studio.jmx->KPITemplateLoader->Operations->importKPITemplatesAlltenant; and click importKPITemplatesAllTenants to import the SE KPIS and Metrics into the KPI Library.

# **Fixed Issues**

Issues are identified with a Change Request number (QCCR1A<CR\_number>). Use this number when looking for more information about the problem on the HP Software Support web site, or when communicating with your HP Support representative.

### **Fixed Issues in Executive Scorecard 9.31 CUP1**

This section lists the issues that have been fixed in CUP1.

| QCCR1A Number | Description   |
|---------------|---|
| QCCR1A155500  | The XS. STORAGE_UTILIZATION_FACT_V table should include only the latest data of every storage system, but because it is a transaction table, it also includes the history data of every storage system, so the MD_BATCH_ID table was added to filter the latest data of the XS. STORAGE_UTILIZATION_FACT_V table. |



