HP IT Executive Scorecard

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Windows ® operating system

Content Reference Guide for the Integration with HP Server Automation

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About this PDF Version of Online Help

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SA Data Source - Associated Contexts, KPIs, Metrics, and Data Lineage

This document describes the integration, contexts, KPIs, Metrics, data lineage, and reports associated with the integration with the HP Server Automation data source.

HP Server Automation (SA) is a unique platform that orchestrates the deployment of compute and infrastructure resources and of complex multi-tier application architectures. SA integrates and leverages the strengths of a hybrid cloud environment, providing the ability to design and deploy enterprise-ready cloud services tailored to the business needs of your organization.

It works through a catalog-based subscription process. Subscribers request and modify cloud service offerings with pre-defined pricing and other customer-specific features. Once the request is approved, through a policy-driven process, SA deploys the cloud service offering using a structured lifecycle with pre-defined integration mechanisms for invoking external processes.

HP Server Automation Virtual Appliance (SAVA), the Server Automation Standard edition, is a single SA Core, single Slice Component bundle version of enterprise-level SA running within a VMware VM-based virtual appliance. SAVA is targeted specifically for small to medium size deployments.

SAVA enables customers to manage the entire life-cycle management of servers for up to 3000 servers. HP Server Automation Standard or SAVA supports a limited set of HP Server Automation Enterprise capabilities including OS Provisioning, Server Patching, Software Management, Application Configuration, Audit and Compliance, Virtualization Management and more. SAVA only supports Windows®- and Linux-based operating systems platforms.

Note: Information about the ALT data source and more general content issues are detailed in the *IT Executive Scorecard Content Reference Guide for the Integration of Alternate Data Sources*.

Data Lineage

For details on how to understand the data lineage graph, see Data Lineage in the *IT Executive Scorecard Content Reference Guide*

SA Data Source

The purpose of the integration of SA as a data source is to bring quality management information into the Data Warehouse.

To access:

Select **Admin > Data Source Management** then click **Add data source** and select **SA** to activate the integration processes for the **SA** data source.



Learn More

Content Packs and their functionality

To learn about Content Packs and their functionality, see Data Source Management in the *IT Executive Scorecard Administrator Guide*.

Important Information

- The SA Content Pack supports multiple instances.
- **FBI Integration:** An extractor using the File Based Integration mechanism that extracts entities from the source and generates corresponding flat files. For details, see File Based Integration (FBI) in the *IT Executive Scorecard Administrator Guide*.
- All fields are case-sensitive.

Permissions

- Users of the SA Platform must be authenticated and authorized to invoke methods on the Server Automation Platform API. To connect to SA, a client supplies an SA user name and password (authentication). To invoke methods, the SA user must belong to a user group with the necessary permissions (authorization).
- Communication between SA clients and SA server is encrypted, and the request and response are encrypted using SSL over HTTPS.
- The user used to connect the SA server should be added to the SA user group **Superusers**, to ensure full permission to access all resources with Read permission. It is not mandatoryto be added to the **Viewers** group.

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Activate the Integration

1. **Prerequisite:**
   - Make sure that the Server Automation Platform is ready for use, meaning a set of APIs and a runtime environment that facilitate the integration and extension of SA.
   - Check the *IT Executive Scorecard Support Matrix* for supported versions.
2. Select **Admin** > **Data Source Management** then click **Add data source**.
3. The Add Data Source page opens. Select the **SA** data source type.
4. Select or enter the configuration parameters.
5. Click **Next** to proceed to the validationpage.

Note: To perform configuration and activation tasks using the Automation tool, see The Automation Tool in the *IT Executive Scorecard Administrator Guide*.

Change the SA password

- **On BOE server:**
  a. Change the password in BOE ODBC connection to the new password and restart the BOE.
  b. Perform the following only if you created your own universes and you are using your own connections (not one of the following: XS_APP_JDBC, XS_DWH_JDBC, ita_admin, ita_ operations).
     i. Import all of your universes into the BOE designer.
     ii. In the Tools menu, select **Connections**.
     iii. Change the SA password for all of your connections.
     iv. Save and export the Universes.
     v. Make sure that Period_Universe appears under the XS_Studio directory.
- **On the DWH server:**
  a. Stop running Executive Scorecard.
  b. Copy the run_postinstall.bat file from **\<Installation Directory>\installation\HPXS903\backup\agora\confwizard** to **\HPXS\agora\confwizard** and execute this file.
  c. In the MNG DB page of the wizard, change the password for the SA user.
  d. Before the final wizard step, select **Skip Data Warehouse configuration** and continue completing the post-install wizard.
  e. Open the Data Warehouse UI, using the following url: **http://<DWH Server name (FQDN>/dwh**
  f. Log on to the application using the same credentials you used to log on to the XS application.

g. Navigate to **Admin** > **Data Warehouse** and change the passwords for all SA users.

h. Restart the DWH server.

i. If you used the SA user as a BODS user (not recommended configuration), perform the following from the CMD dir <<Installation Directory>\agora\DataWarehouse\bin>:

   i. dw_ds_import.bat -inputdir \tmp\datastores

   ii. dw_etl_update_containers.bat –topdir \tmp\datastores -upgrade

j. If you are not sure which user was used for BODS repository configurations, navigate to **Admin** > **Data Warehouse** and check the **Repository Username** parameter in the SAP BusinessObjects Data Services for HP FPA area.

- **On the XS server:**

a. Stop running Executive Scorecard.

b. Remove **biar XS_SP2.biar** from **\<Installation Directory>\agora\confwizard\conf\scripts** and rename **XS_SP3.biar** to **XS_SP2.biar**.

c. Remove **dwh_target_sp2_views** from **\<Installation Directory>\agora\confwizard\conf\scripts\database\mssq**l and rename **dwh_target_sp3_views** to **dwh_target_sp2_views**.

d. Copy the **run_postinstall.bat** file from **\<Installation Directory>\installation\HPXS903\backup\agora\confwizard** to **\HPXS\agora\confwizard** and execute this file.

e. In the ManagementDatabase page of the wizard, change the password for the SA user.

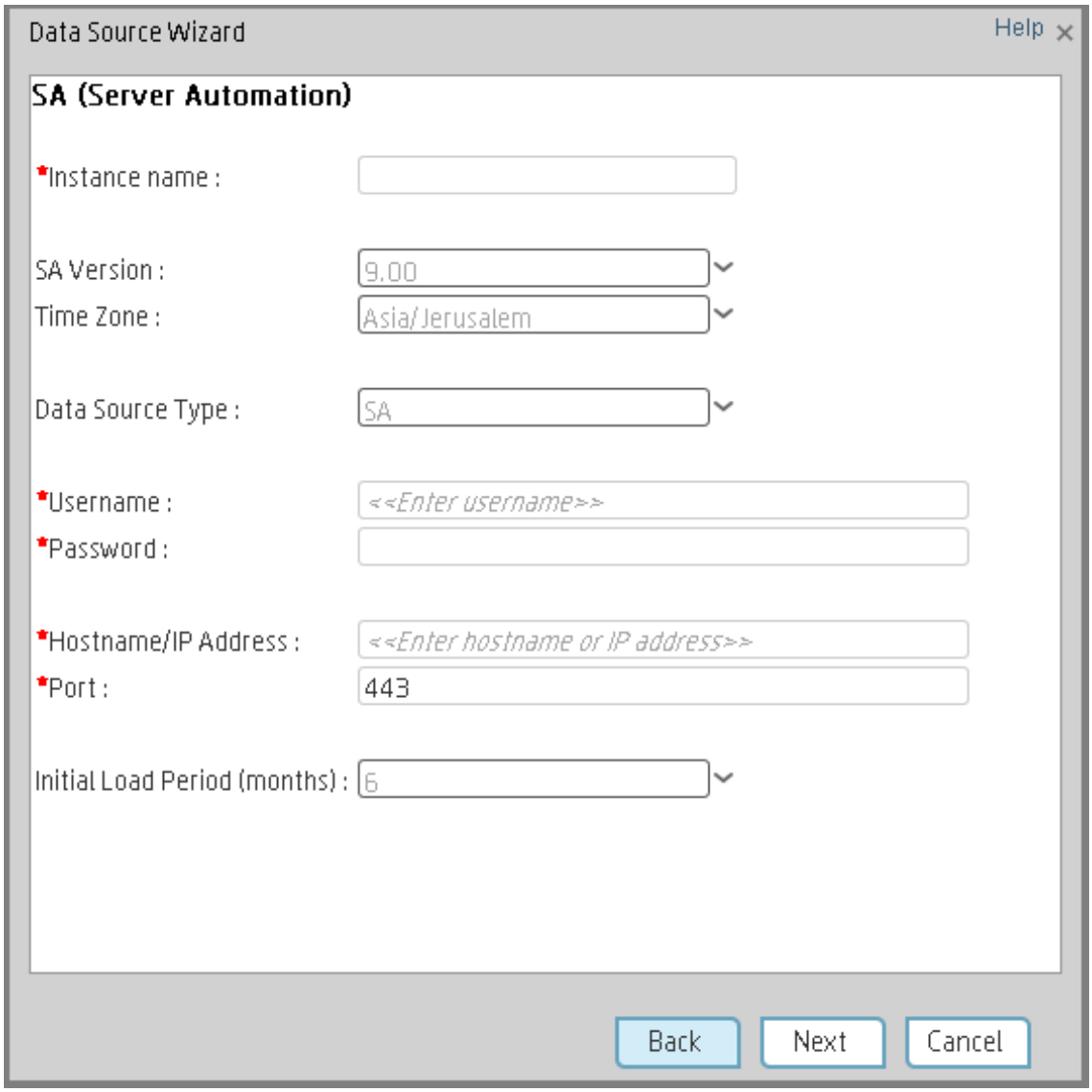
f. In the Result Database page of the wizard, change the password for the SA user.

Make sure that you always connect to the existing DB when running configurations.



UI Description

SA Activation Page



Mandatory fields are marked with a red asterisk.

User interface elements are described below:

UI Element	Description
Instance name	Enter a name for the data source instance you are activating.
SA Version	Select the relevant SA version. For details, see the *IT Executive Scorecard Support Matrix*.
Time Zone	Select the time zone for the data source.
Data Source Type	SA This parameter is read only.

UI Element	Description
User	Enter your username used to log on to the SA server.
Password	Enter your password used to log on to the SA server.
Hostname/IP Address	The remote server on which the SA server resides.
Port	Enter the port in the SA server which waits for connections from the SDK Client side. By default, the port number is 443.
Initial Load Period (months)	Select the number of months from which you want the initial data loaded.



Reference

List and Flow of Entities

List of Entities in Excel format

This document is available in the PDFs directory in the Installation DVD, is accessible from the Help Center page in the online Help Center (documentation library), or from the HP Software Product Manual Site (http://h20230.www2.hp.com/selfsolve/manuals).

PolicyRemediation Context

HP Server Automation (SA) is a unique platform that orchestrates the deployment of compute and infrastructure resources and of complex multi-tier application architectures. SA integrates and leverages the strengths of a hybrid cloud environment, providing the ability to design and deploy enterprise-ready cloud services tailored to the business needs of your organization.

It works through a catalog-based subscription process. Subscribers request and modify cloud service offerings with pre-defined pricing and other customer-specific features. Once the request is approved, through a policy-driven process, SA deploys the cloud service offering using a structured lifecycle with pre-defined integration mechanisms for invoking external processes.

HP Network Automation (NA) provides a solution that tracks and regulates configuration and software changes across routers, switches, firewalls, load balancers, and wireless access points. NA allows visibility into network changes, enabling an IT staff to identify and correct trends that could lead to problems. NA also gives network engineers full audit information about each device change as well as configuration change information.

HP Network Automation (NA) automates network change, configuration, and compliance management. NA enables you to reduce costs and administration time required to manage change and configurations of the network while ensuring compliance in a stable and secure environment.

HP Server Automation and HP Network Automation is the data source used by this Context (universe).

This Context enables the creation of Breakdowns from Nodes to Services and from Nodes to Applications (but not from Services to Applications and vice versa).

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 | Reference

Tasks

"Display the Context" below

"Create a KPI based on the Node entity and break it down by service and/or application" on the next page

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 Semantic Layer - Context Designer in the *IT Executive Scorecard Administrator Guide*.

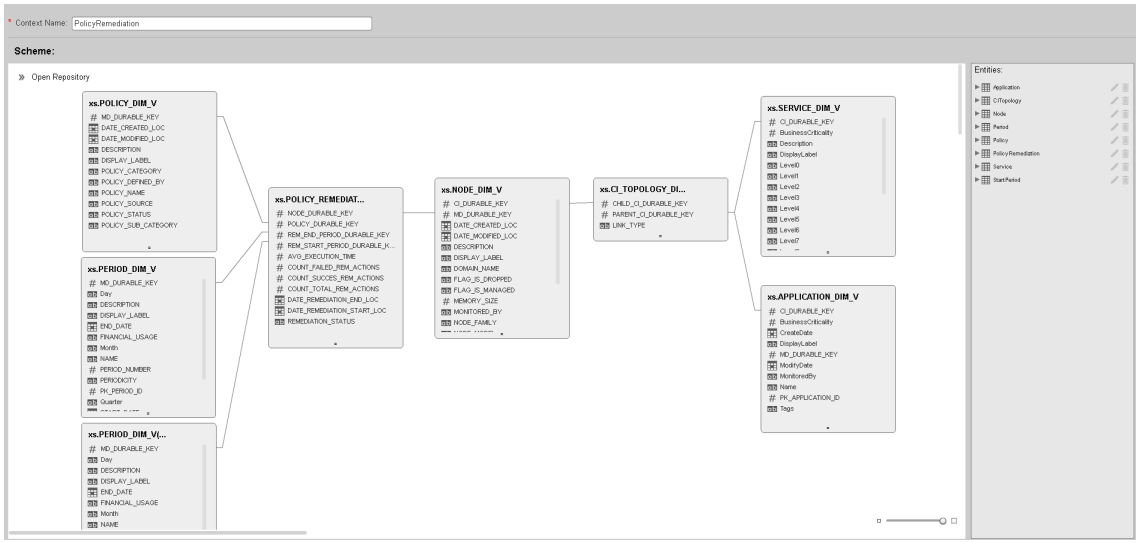
Create a KPI based on the Node entity and break it down by service and/or application

The Context includes the Node entity, so you can create a KPI based on that entity and then break it down by service and/or application.
Do not create a Service to Application drill down or an Application to Service drill down.

Reference

Context Tables and Structure

The context includes the following tables and relationships:



Statistics

Entity Count	Field Count	Table Count	Alias Count	Join Count
8	82	8	1	7

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	Type
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
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

Table Name	Name	Type
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
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.POLICY_DIM_V	DATE_CREATED_LOC	datetime
XS.POLICY_DIM_V	DATE_MODIFIED_LOC	datetime
XS.POLICY_DIM_V	DESCRIPTION	nvarchar
XS.POLICY_DIM_V	DISPLAY_LABEL	nvarchar
XS.POLICY_DIM_V	MD_DURABLE_KEY	numeric
XS.POLICY_DIM_V	POLICY_CATEGORY	nvarchar
XS.POLICY_DIM_V	POLICY_DEFINED_BY	nvarchar
XS.POLICY_DIM_V	POLICY_NAME	nvarchar
XS.POLICY_DIM_V	POLICY_SOURCE	nvarchar
XS.POLICY_DIM_V	POLICY_STATUS	nvarchar
XS.POLICY_DIM_V	POLICY_SUB_CATEGORY	nvarchar
XS.POLICY_REMEDIATION_FACT_V	AVG_EXECUTION_TIME	float

Table Name	Name	Type
XS.POLICY_REMEDIATION_FACT_V	COUNT_FAILED_REM_ACTIONS	numeric
XS.POLICY_REMEDIATION_FACT_V	COUNT_SUCCES_REM_ACTIONS	numeric
XS.POLICY_REMEDIATION_FACT_V	COUNT_TOTAL_REM_ACTIONS	numeric
XS.POLICY_REMEDIATION_FACT_V	DATE_REMEDIATION_END_LOC	datetime
XS.POLICY_REMEDIATION_FACT_V	DATE_REMEDIATION_START_LOC	datetime
XS.POLICY_REMEDIATION_FACT_V	NODE_DURABLE_KEY	numeric
XS.POLICY_REMEDIATION_FACT_V	POLICY_DURABLE_KEY	numeric
XS.POLICY_REMEDIATION_FACT_V	REMEDIATION_STATUS	nvarchar
XS.POLICY_REMEDIATION_FACT_V	REM_END_PERIOD_DURABLE_KEY	numeric
XS.POLICY_REMEDIATION_FACT_V	REM_START_PERIOD_DURABLE_KEY	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

Table Name	Name	Type
xs.SERVICE_DIM_V	State	nvarchar
xs.SERVICE_DIM_V	Type	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 Name	Alias Table Name	DB Column Name	Field Type
Application	ApplicationID	xs.APPLICATION_DIM_V		ApplicationID	NUMERIC
Application	MonitoredBy	xs.APPLICATION_DIM_V		MonitoredBy	STRING
Application	Name	xs.APPLICATION_DIM_V		Name	STRING
CITopology	LINK_TYPE	xs.CI_TOPOLOGY_DIM_V		LINK_TYPE	STRING
Node	CreateTime	XS.NODE_DIM_V		DATE_CREATED_LOC	DATE
Node	Description	XS.NODE_DIM_V		DESCRIPTION	STRING
Node	DisplayLabel	XS.NODE_DIM_V		DISPLAY_LABEL	STRING
Node	DomainName	XS.NODE_DIM_V		DOMAIN_NAME	STRING
Node	Family	XS.NODE_DIM_V		NODE_FAMILY	STRING
Node	IsDropped	XS.NODE_DIM_V		FLAG_IS_DROPPED	STRING
Node	IsManaged	XS.NODE_DIM_V		FLAG_IS_MANAGED	STRING
Node	LastModifiedTime	XS.NODE_DIM_V		DATE_MODIFIED_	DATE

Entity Name	Field Name	Source Table Name	Alias Table Name	DB Column Name	Field Type
				LOC	
Node	MemorySize	XS.NODE_DIM_V		MEMORY_SIZE	NUMERIC
Node	Model	XS.NODE_DIM_V		NODE_MODEL	STRING
Node	MonitoredBy	XS.NODE_DIM_V		MONITORED_BY	STRING
Node	Name	XS.NODE_DIM_V		NODE_NAME	STRING
Node	Os	XS.NODE_DIM_V		OS	STRING
Node	OsVendor	XS.NODE_DIM_V		OS_VENDOR	STRING
Node	Role	XS.NODE_DIM_V		NODE_ROLE	STRING
Node	TimeZone	XS.NODE_DIM_V		TIME_ZONE	STRING
Node	Vendor	XS.NODE_DIM_V		VENDOR	STRING
Period	Day	XS.PERIOD_DIM_V		Day	STRING
Period	Description	XS.PERIOD_DIM_V		DESCRIPTION	STRING
Period	DisplayLabel	XS.PERIOD_DIM_V		DISPLAY_LABEL	STRING
Period	EndDate	XS.PERIOD_DIM_V		END_DATE	DATE
Period	FinancialUsage	XS.PERIOD_DIM_V		FINANCIAL_USAGE	STRING
Period	Month	XS.PERIOD_DIM_V		Month	STRING
Period	Name	XS.PERIOD_DIM_V		NAME	STRING

Entity Name	Field Name	Source Table Name	Alias Table Name	DB Column Name	Field Type
Period	Periodicity	XS.PERIOD_DIM_V		PERIODICITY	STRING
Period	PeriodNumber	XS.PERIOD_DIM_V		PERIOD_NUMBER	NUMERIC
Period	Quarter	XS.PERIOD_DIM_V		Quarter	STRING
Period	StartDate	XS.PERIOD_DIM_V		START_DATE	DATE
Period	Week	XS.PERIOD_DIM_V		Week	STRING
Period	Year	XS.PERIOD_DIM_V		Year	STRING
Period	YearNumber	XS.PERIOD_DIM_V		Year_Number	NUMERIC
Policy	Category	XS.POLICY_DIM_V		POLICY_CATEGORY	STRING
Policy	CreatedDate	XS.POLICY_DIM_V		DATE_CREATED_LOC	DATE
Policy	DefinedBy	XS.POLICY_DIM_V		POLICY_DEFINED_BY	STRING
Policy	Description	XS.POLICY_DIM_V		DESCRIPTION	STRING
Policy	DisplayLabel	XS.POLICY_DIM_V		DISPLAY_LABEL	STRING
Policy	ModifiedDate	XS.POLICY_DIM_V		DATE_MODIFIED_LOC	DATE
Policy	Name	XS.POLICY_DIM_V		POLICY_NAME	STRING
Policy	Source	XS.POLICY_DIM_V		POLICY_SOURCE	STRING
Policy	Status	XS.POLICY_		POLICY_	STRING

Entity Name	Field Name	Source Table Name	Alias Table Name	DB Column Name	Field Type
		DIM_V		STATUS	
Policy	SubCategory	XS.POLICY_ DIM_V		POLICY_ SUB_ CATEGORY	STRING
PolicyRemediation	AvgExecutionTime	XS.POLICY_ REMEDIATIO N_FACT_V		AVG_ EXECUTION_ TIME	NUMERIC
PolicyRemediation	CountFailedRemActions	XS.POLICY_ REMEDIATIO N_FACT_V		COUNT_ FAILED_ REM_ ACTIONS	NUMERIC
PolicyRemediation	CountSuccessRemActions	XS.POLICY_ REMEDIATIO N_FACT_V		COUNT_ SUCCES_ REM_ ACTIONS	NUMERIC
PolicyRemediation	CountTotalRemActions	XS.POLICY_ REMEDIATIO N_FACT_V		COUNT_ TOTAL_REM_ ACTIONS	NUMERIC
PolicyRemediation	RemediationEndDate	XS.POLICY_ REMEDIATIO N_FACT_V		DATE_ REMEDIATIO N_END_LOC	DATE
PolicyRemediation	RemediationStartDate	XS.POLICY_ REMEDIATIO N_FACT_V		DATE_ REMEDIATIO N_START_ LOC	DATE
PolicyRemediation	Status	XS.POLICY_ REMEDIATIO N_FACT_V		REMEDIATIO N_STATUS	STRING
Service	BusinessCriticality	xs.SERVICE_ DIM_V		BusinessCriticality	NUMERIC
Service	Description	xs.SERVICE_ DIM_V		Description	STRING
Service	DisplayLabel	xs.SERVICE_ DIM_V		DisplayLabel	STRING
Service	Level0	xs.SERVICE_ DIM_V		Level0	STRING

Entity Name	Field Name	Source Table Name	Alias Table Name	DB Column Name	Field Type
Service	Level1	xs.SERVICE_DIM_V		Level1	STRING
Service	Level2	xs.SERVICE_DIM_V		Level2	STRING
Service	Level3	xs.SERVICE_DIM_V		Level3	STRING
Service	Level4	xs.SERVICE_DIM_V		Level4	STRING
Service	Level5	xs.SERVICE_DIM_V		Level5	STRING
Service	Level6	xs.SERVICE_DIM_V		Level6	STRING
Service	Level7	xs.SERVICE_DIM_V		Level7	STRING
Service	Level8	xs.SERVICE_DIM_V		Level8	STRING
Service	Level9	xs.SERVICE_DIM_V		Level9	STRING
Service	Name	xs.SERVICE_DIM_V		Name	STRING
Service	State	xs.SERVICE_DIM_V		State	STRING
Service	Type	xs.SERVICE_DIM_V		Type	STRING
StartPeriod	Day	XS.PERIOD_DIM_V	START_PERIOD_DIM	Day	STRING
StartPeriod	Description	XS.PERIOD_DIM_V	START_PERIOD_DIM	DESCRIPTION	STRING
StartPeriod	DisplayLabel	XS.PERIOD_DIM_V	START_	DISPLAY_LABEL	STRING

Entity Name	Field Name	Source Table Name	Alias Table Name	DB Column Name	Field Type
			PERIOD_DIM		
StartPeriod	EndDate	XS.PERIOD_DIM_V	START_PERIOD_DIM	END_DATE	DATE
StartPeriod	FinancialUsage	XS.PERIOD_DIM_V	START_PERIOD_DIM	FINANCIAL_USAGE	STRING
StartPeriod	Month	XS.PERIOD_DIM_V	START_PERIOD_DIM	Month	STRING
StartPeriod	Name	XS.PERIOD_DIM_V	START_PERIOD_DIM	NAME	STRING
StartPeriod	Periodicity	XS.PERIOD_DIM_V	START_PERIOD_DIM	PERIODICITY	STRING
StartPeriod	PeriodNumber	XS.PERIOD_DIM_V	START_PERIOD_DIM	PERIOD_NUMBER	NUMERIC
StartPeriod	Quarter	XS.PERIOD_DIM_V	START_PERIOD_DIM	Quarter	STRING
StartPeriod	StartDate	XS.PERIOD_DIM_V	START_PERIOD_DIM	START_DATE	DATE
StartPeriod	Week	XS.PERIOD_DIM_V	START_PERIOD_DIM	Week	STRING

Entity Name	Field Name	Source Table Name	Alias Table Name	DB Column Name	Field Type
StartPeriod	Year	XS.PERIOD_DIM_V	START_PERIOD_DIM	Year	STRING
StartPeriod	YearNumber	XS.PERIOD_DIM_V	START_PERIOD_DIM	Year_Number	NUMERIC

PolicyCompliance Context

HP Server Automation (SA) is a unique platform that orchestrates the deployment of compute and infrastructure resources and of complex multi-tier application architectures. SA integrates and leverages the strengths of a hybrid cloud environment, providing the ability to design and deploy enterprise-ready cloud services tailored to the business needs of your organization.

It works through a catalog-based subscription process. Subscribers request and modify cloud service offerings with pre-defined pricing and other customer-specific features. Once the request is approved, through a policy-driven process, SA deploys the cloud service offering using a structured lifecycle with pre-defined integration mechanisms for invoking external processes.

HP Network Automation (NA) provides a solution that tracks and regulates configuration and software changes across routers, switches, firewalls, load balancers, and wireless access points. NA allows visibility into network changes, enabling an IT staff to identify and correct trends that could lead to problems. NA also gives network engineers full audit information about each device change as well as configuration change information.

HP Network Automation (NA) automates network change, configuration, and compliance management. NA enables you to reduce costs and administration time required to manage change and configurations of the network while ensuring compliance in a stable and secure environment.

HP Server Automation and HP Network Automation are the data sources used by this Context (universe).

This Context enables the creation of Breakdowns from Nodes to Services and from Nodes to Applications (but not from Services to Applications and vice versa).

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 | Reference

Tasks

"Display the Context" below

"Create a KPI based on the Node entity and break it down by service and/or application" on the next page

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 Semantic Layer - Context Designer in the *IT Executive Scorecard Administrator Guide*.

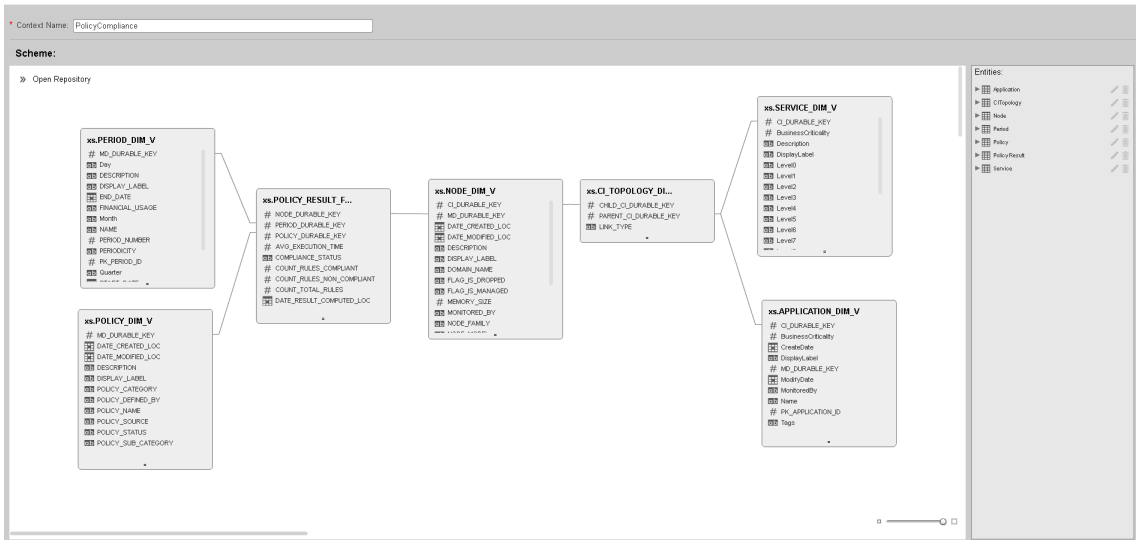
Create a KPI based on the Node entity and break it down by service and/or application

The Context includes the Node entity, so you can create a KPI based on that entity and then break it down by service and/or application.
Do not create a Service to Application drill down or an Application to Service drill down.

Reference

Context Tables and Structure

The context includes the following tables and relationships:



Statistics

Entity Count	Field Count	Table Count	Alias Count	Join Count
7	67	7		6

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	Type
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
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

Table Name	Name	Type
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
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.POLICY_DIM_V	DATE_CREATED_LOC	datetime
XS.POLICY_DIM_V	DATE_MODIFIED_LOC	datetime
XS.POLICY_DIM_V	DESCRIPTION	nvarchar
XS.POLICY_DIM_V	DISPLAY_LABEL	nvarchar
XS.POLICY_DIM_V	MD_DURABLE_KEY	numeric
XS.POLICY_DIM_V	POLICY_CATEGORY	nvarchar
XS.POLICY_DIM_V	POLICY_DEFINED_BY	nvarchar
XS.POLICY_DIM_V	POLICY_NAME	nvarchar
XS.POLICY_DIM_V	POLICY_SOURCE	nvarchar
XS.POLICY_DIM_V	POLICY_STATUS	nvarchar
XS.POLICY_DIM_V	POLICY_SUB_CATEGORY	nvarchar
XS.POLICY_RESULT_FACT_V	AVG_EXECUTION_TIME	float

Table Name	Name	Type
XS.POLICY_RESULT_FACT_V	COMPLIANCE_STATUS	nvarchar
XS.POLICY_RESULT_FACT_V	COUNT_RULES_COMPLIANT	numeric
XS.POLICY_RESULT_FACT_V	COUNT_RULES_NON_COMPLIANT	numeric
XS.POLICY_RESULT_FACT_V	COUNT_TOTAL_RULES	numeric
XS.POLICY_RESULT_FACT_V	DATE_RESULT_COMPUTED_LOC	datetime
XS.POLICY_RESULT_FACT_V	NODE_DURABLE_KEY	numeric
XS.POLICY_RESULT_FACT_V	PERIOD_DURABLE_KEY	numeric
XS.POLICY_RESULT_FACT_V	POLICY_DURABLE_KEY	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	Type	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 Name	Alias Table Name	DB Column Name	Field Type
Application	ApplicationID	xs.APPLICATION_DIM_V		ApplicationID	NUMERIC
Application	MonitoredBy	xs.APPLICATION_DIM_V		MonitoredBy	STRING
Application	Name	xs.APPLICATION_DIM_V		Name	STRING
CITopology	LINK_TYPE	xs.CI_TOPOLOGY_DIM_V		LINK_TYPE	STRING
Node	CreateTime	XS.NODE_DIM_V		DATE_CREATED_LOC	DATE
Node	Description	XS.NODE_DIM_V		DESCRIPTION	STRING
Node	DisplayLabel	XS.NODE_DIM_V		DISPLAY_LABEL	STRING
Node	DomainName	XS.NODE_DIM_V		DOMAIN_NAME	STRING
Node	Family	XS.NODE_DIM_V		NODE_FAMILY	STRING
Node	IsDropped	XS.NODE_DIM_V		FLAG_IS_DROPPED	STRING
Node	IsManaged	XS.NODE_DIM_V		FLAG_IS_MANAGED	STRING
Node	LastModifiedTime	XS.NODE_DIM_V		DATE_MODIFIED_LOC	DATE
Node	MemorySize	XS.NODE_DIM_V		MEMORY_SIZE	NUMERIC
Node	Model	XS.NODE_DIM_V		NODE_MODEL	STRING
Node	MonitoredBy	XS.NODE_DIM_V		MONITORED_BY	STRING
Node	Name	XS.NODE_DIM_V		NODE_NAME	STRING
Node	Os	XS.NODE_DIM_V		OS	STRING

Entity Name	Field Name	Source Table Name	Alias Table Name	DB Column Name	Field Type
Node	OsVendor	XS.NODE_DIM_V		OS_VENDOR	STRING
Node	Role	XS.NODE_DIM_V		NODE_ROLE	STRING
Node	TimeZone	XS.NODE_DIM_V		TIME_ZONE	STRING
Node	Vendor	XS.NODE_DIM_V		VENDOR	STRING
Period	Day	XS.PERIOD_DIM_V		Day	STRING
Period	Description	XS.PERIOD_DIM_V		DESCRIPTION	STRING
Period	DisplayLabel	XS.PERIOD_DIM_V		DISPLAY_LABEL	STRING
Period	EndDate	XS.PERIOD_DIM_V		END_DATE	DATE
Period	FinancialUsage	XS.PERIOD_DIM_V		FINANCIAL_USAGE	STRING
Period	Month	XS.PERIOD_DIM_V		Month	STRING
Period	Name	XS.PERIOD_DIM_V		NAME	STRING
Period	Periodicity	XS.PERIOD_DIM_V		PERIODICITY	STRING
Period	PeriodNumber	XS.PERIOD_DIM_V		PERIOD_NUMBER	NUMERIC
Period	Quarter	XS.PERIOD_DIM_V		Quarter	STRING
Period	StartDate	XS.PERIOD_DIM_V		START_DATE	DATE
Period	Week	XS.PERIOD_DIM_V		Week	STRING
Period	Year	XS.PERIOD_DIM_V		Year	STRING
Period	YearNumber	XS.PERIOD_		Year_Number	NUMERI

Entity Name	Field Name	Source Table Name	Alias Table Name	DB Column Name	Field Type
		DIM_V			C
Policy	Category	XS.POLICY_DIM_V		POLICY_CATEGORY	STRING
Policy	CreatedDate	XS.POLICY_DIM_V		DATE_CREATED_LOC	DATE
Policy	DefinedBy	XS.POLICY_DIM_V		POLICY_DEFINED_BY	STRING
Policy	Description	XS.POLICY_DIM_V		DESCRIPTION	STRING
Policy	DisplayLabel	XS.POLICY_DIM_V		DISPLAY_LABEL	STRING
Policy	ModifiedDate	XS.POLICY_DIM_V		DATE_MODIFIED_LOC	DATE
Policy	Name	XS.POLICY_DIM_V		POLICY_NAME	STRING
Policy	Source	XS.POLICY_DIM_V		POLICY_SOURCE	STRING
Policy	Status	XS.POLICY_DIM_V		POLICY_STATUS	STRING
Policy	SubCategory	XS.POLICY_DIM_V		POLICY_SUB_CATEGORY	STRING
PolicyResult	AvgExecutionTime	XS.POLICY_RESULT_FACT_V		AVG_EXECUTION_TIME	NUMERIC
PolicyResult	ComplianceStatus	XS.POLICY_RESULT_FACT_V		COMPLIANCE_STATUS	STRING
PolicyResult	ComputedResultDate	XS.POLICY_RESULT_FACT_V		DATE_RESULT_COMPUTED_LOC	DATE
PolicyResult	CountTotalRules	XS.POLICY_RESULT_FACT_V		COUNT_TOTAL_RULES	NUMERIC
PolicyResult	RulesCompliant	XS.POLICY_RESULT_FACT_V		COUNT_	NUMERIC

Entity Name	Field Name	Source Table Name	Alias Table Name	DB Column Name	Field Type
				RULES_ COMPLIANT	
PolicyResult	RulesNonCompliant	XS.POLICY_ RESULT_FACT_V		COUNT_ RULES_NON_ COMPLIANT	NUMERIC
Service	BusinessCriticality	xs.SERVICE_ DIM_V		BusinessCriticality	NUMERIC
Service	Description	xs.SERVICE_ DIM_V		Description	STRING
Service	DisplayLabel	xs.SERVICE_ DIM_V		DisplayLabel	STRING
Service	Level0	xs.SERVICE_ DIM_V		Level0	STRING
Service	Level1	xs.SERVICE_ DIM_V		Level1	STRING
Service	Level2	xs.SERVICE_ DIM_V		Level2	STRING
Service	Level3	xs.SERVICE_ DIM_V		Level3	STRING
Service	Level4	xs.SERVICE_ DIM_V		Level4	STRING
Service	Level5	xs.SERVICE_ DIM_V		Level5	STRING
Service	Level6	xs.SERVICE_ DIM_V		Level6	STRING
Service	Level7	xs.SERVICE_ DIM_V		Level7	STRING
Service	Level8	xs.SERVICE_ DIM_V		Level8	STRING
Service	Level9	xs.SERVICE_ DIM_V		Level9	STRING
Service	Name	xs.SERVICE_ DIM_V		Name	STRING

Entity Name	Field Name	Source Table Name	Alias Table Name	DB Column Name	Field Type
Service	State	xs.SERVICE_DIM_V		State	STRING
Service	Type	xs.SERVICE_DIM_V		Type	STRING

PolicyComplianceStatus Context

HP Server Automation (SA) is a unique platform that orchestrates the deployment of compute and infrastructure resources and of complex multi-tier application architectures. SA integrates and leverages the strengths of a hybrid cloud environment, providing the ability to design and deploy enterprise-ready cloud services tailored to the business needs of your organization.

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HP Network Automation (NA) automates network change, configuration, and compliance management. NA enables you to reduce costs and administration time required to manage change and configurations of the network while ensuring compliance in a stable and secure environment.

HP Server Automation and HP Network Automation are the data sources used by this Context (universe).

This Context enables the creation of Breakdowns from Nodes to Services and from Nodes to Applications (but not from Services to Applications and vice versa).

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 | Reference

Tasks

"Display the Context" below

"Create a KPI based on the Node entity and break it down by service and/or application" on the next page

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 Semantic Layer - Context Designer in the *IT Executive Scorecard Administrator Guide*.

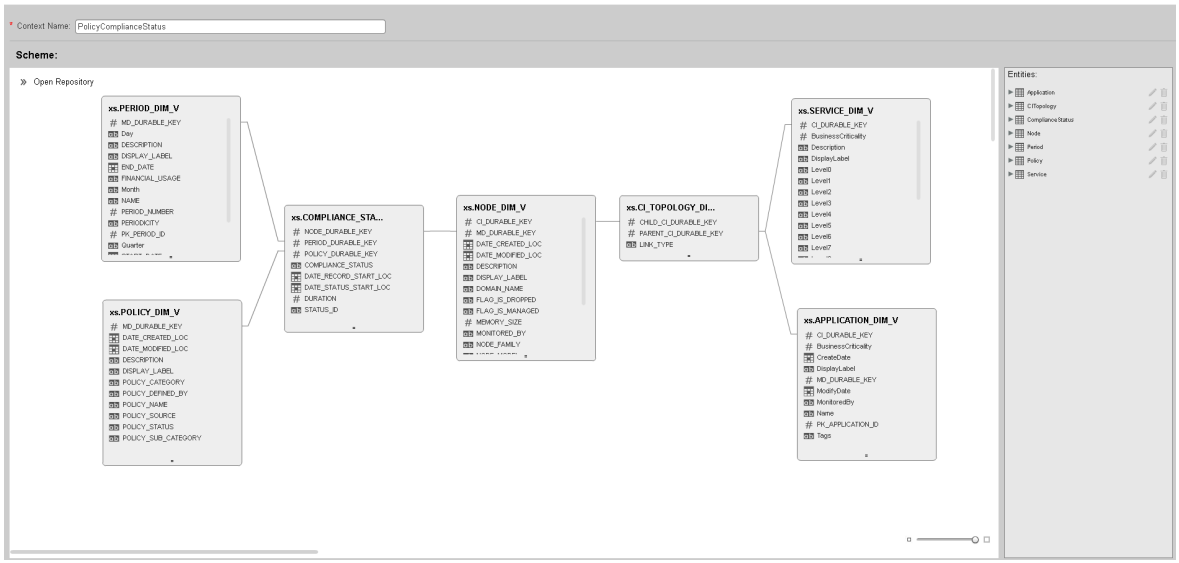
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The Context includes the Node entity, so you can create a KPI based on that entity and then break it down by service and/or application.
Do not create a Service to Application drill down or an Application to Service drill down.

Reference

Context Tables and Structure

The context includes the following tables and relationships:



Statistics

Entity Count	Field Count	Table Count	Alias Count	Join Count
7	66	7		6

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	Type
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
XS.COMPLIANCE_STATUS_FACT_V	COMPLIANCE_STATUS	nvarchar
XS.COMPLIANCE_STATUS_FACT_V	DATE_RECORD_START_LOC	datetime
XS.COMPLIANCE_STATUS_FACT_V	DATE_STATUS_START_LOC	datetime
XS.COMPLIANCE_STATUS_FACT_V	DURATION	float
XS.COMPLIANCE_STATUS_FACT_V	NODE_DURABLE_KEY	numeric
XS.COMPLIANCE_STATUS_FACT_V	PERIOD_DURABLE_KEY	numeric
XS.COMPLIANCE_STATUS_FACT_V	POLICY_DURABLE_KEY	numeric
XS.COMPLIANCE_STATUS_FACT_V	STATUS_ID	varchar
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

Table Name	Name	Type
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
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.POLICY_DIM_V	DATE_CREATED_LOC	datetime
XS.POLICY_DIM_V	DATE_MODIFIED_LOC	datetime
XS.POLICY_DIM_V	DESCRIPTION	nvarchar
XS.POLICY_DIM_V	DISPLAY_LABEL	nvarchar

Table Name	Name	Type
XS.POLICY_DIM_V	MD_DURABLE_KEY	numeric
XS.POLICY_DIM_V	POLICY_CATEGORY	nvarchar
XS.POLICY_DIM_V	POLICY_DEFINED_BY	nvarchar
XS.POLICY_DIM_V	POLICY_NAME	nvarchar
XS.POLICY_DIM_V	POLICY_SOURCE	nvarchar
XS.POLICY_DIM_V	POLICY_STATUS	nvarchar
XS.POLICY_DIM_V	POLICY_SUB_CATEGORY	nvarchar
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	Type	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 Name	Alias Table Name	DB Column Name	Field Type
Application	ApplicationID	xs.APPLICATION_DIM_V		ApplicationID	NUMERIC
Application	MonitoredBy	xs.APPLICATION_DIM_V		MonitoredBy	STRING
Application	Name	xs.APPLICATION_DIM_V		Name	STRING
CITopology	LINK_TYPE	xs.CI_TOPOLOGY_DIM_V		LINK_TYPE	STRING
ComplianceStatus	Duration	XS.COMPLIANCE_STATUS_FACT_V		DURATION	NUMERIC
ComplianceStatus	RecordStartDate	XS.COMPLIANCE_STATUS_FACT_V		DATE_RECORD_START_LOC	DATE
ComplianceStatus	Status	XS.COMPLIANCE_STATUS_FACT_V		COMPLIANCE_STATUS	STRING
ComplianceStatus	StatusId	XS.COMPLIANCE_STATUS_FACT_V		STATUS_ID	STRING
ComplianceStatus	StatusStartDate	XS.COMPLIANCE_STATUS_FACT_V		DATE_STATUS_START_LOC	DATE
Node	CreateTime	XS.NODE_DIM_V		DATE_CREATED_LOC	DATE
Node	Description	XS.NODE_DIM_V		DESCRIPTION	STRING
Node	DisplayLabel	XS.NODE_DIM_V		DISPLAY_LABEL	STRING
Node	DomainName	XS.NODE_DIM_V		DOMAIN_NAME	STRING

Entity Name	Field Name	Source Table Name	Alias Table Name	DB Column Name	Field Type
Node	Family	XS.NODE_DIM_V		NODE_FAMILY	STRING
Node	IsDropped	XS.NODE_DIM_V		FLAG_IS_DROPPED	STRING
Node	IsManaged	XS.NODE_DIM_V		FLAG_IS_MANAGED	STRING
Node	LastModifiedTime	XS.NODE_DIM_V		DATE_MODIFIED_LOC	DATE
Node	MemorySize	XS.NODE_DIM_V		MEMORY_SIZE	NUMERIC
Node	Model	XS.NODE_DIM_V		NODE_MODEL	STRING
Node	MonitoredBy	XS.NODE_DIM_V		MONITORED_BY	STRING
Node	Name	XS.NODE_DIM_V		NODE_NAME	STRING
Node	Os	XS.NODE_DIM_V		OS	STRING
Node	OsVendor	XS.NODE_DIM_V		OS_VENDOR	STRING
Node	Role	XS.NODE_DIM_V		NODE_ROLE	STRING
Node	TimeZone	XS.NODE_DIM_V		TIME_ZONE	STRING
Node	Vendor	XS.NODE_DIM_V		VENDOR	STRING
Period	Day	XS.PERIOD_DIM_V		Day	STRING
Period	Description	XS.PERIOD_DIM_V		DESCRIPTION	STRING
Period	DisplayLabel	XS.PERIOD_DIM_V		DISPLAY_LABEL	STRING
Period	EndDate	XS.PERIOD_DIM_V		END_DATE	DATE
Period	FinancialUsage	XS.PERIOD_DIM_V		FINANCIAL_USAGE	STRING
Period	Month	XS.PERIOD_		Month	STRING

Entity Name	Field Name	Source Table Name	Alias Table Name	DB Column Name	Field Type
		DIM_V			
Period	Name	XS.PERIOD_DIM_V		NAME	STRING
Period	Periodicity	XS.PERIOD_DIM_V		PERIODICITY	STRING
Period	PeriodNumber	XS.PERIOD_DIM_V		PERIOD_NUMBER	NUMERIC
Period	Quarter	XS.PERIOD_DIM_V		Quarter	STRING
Period	StartDate	XS.PERIOD_DIM_V		START_DATE	DATE
Period	Week	XS.PERIOD_DIM_V		Week	STRING
Period	Year	XS.PERIOD_DIM_V		Year	STRING
Period	YearNumber	XS.PERIOD_DIM_V		Year_Number	NUMERIC
Policy	Category	XS.POLICY_DIM_V		POLICY_CATEGORY	STRING
Policy	CreatedDate	XS.POLICY_DIM_V		DATE_CREATED_LOC	DATE
Policy	DefinedBy	XS.POLICY_DIM_V		POLICY_DEFINED_BY	STRING
Policy	Description	XS.POLICY_DIM_V		DESCRIPTION	STRING
Policy	DisplayLabel	XS.POLICY_DIM_V		DISPLAY_LABEL	STRING
Policy	ModifiedDate	XS.POLICY_DIM_V		DATE_MODIFIED_LOC	DATE
Policy	Name	XS.POLICY_DIM_V		POLICY_NAME	STRING

Entity Name	Field Name	Source Table Name	Alias Table Name	DB Column Name	Field Type
Policy	Source	XS.POLICY_DIM_V		POLICY_SOURCE	STRING
Policy	Status	XS.POLICY_DIM_V		POLICY_STATUS	STRING
Policy	SubCategory	XS.POLICY_DIM_V		POLICY_SUB_CATEGORY	STRING
Service	BusinessCriticality	xs.SERVICE_DIM_V		BusinessCriticality	NUMERIC
Service	Description	xs.SERVICE_DIM_V		Description	STRING
Service	DisplayLabel	xs.SERVICE_DIM_V		DisplayLabel	STRING
Service	Level0	xs.SERVICE_DIM_V		Level0	STRING
Service	Level1	xs.SERVICE_DIM_V		Level1	STRING
Service	Level2	xs.SERVICE_DIM_V		Level2	STRING
Service	Level3	xs.SERVICE_DIM_V		Level3	STRING
Service	Level4	xs.SERVICE_DIM_V		Level4	STRING
Service	Level5	xs.SERVICE_DIM_V		Level5	STRING
Service	Level6	xs.SERVICE_DIM_V		Level6	STRING
Service	Level7	xs.SERVICE_DIM_V		Level7	STRING
Service	Level8	xs.SERVICE_DIM_V		Level8	STRING
Service	Level9	xs.SERVICE_DIM_V		Level9	STRING

Entity Name	Field Name	Source Table Name	Alias Table Name	DB Column Name	Field Type
Service	Name	xs.SERVICE_DIM_V		Name	STRING
Service	State	xs.SERVICE_DIM_V		State	STRING
Service	Type	xs.SERVICE_DIM_V		Type	STRING

% of Managed Nodes KPI

Component Type	KPI
Business Questions	Reduce the risk by increasing the percentage of managed Devices. Breakdown by Node Role: servers, network devices and storage devices.
Business Objective	Increase Compliance
Description	The number of managed nodes relative to the total number of nodes.
Context	PolicyCompliance
Data source	SA, NA, UCMDB, DP, IC, NNM
Formula	PERCENTAGE(Node,Node.IsManaged='Y', Node.Name <> 'INVALID' And Node.Name <> 'UNKNOWN')
KPI Formula Filter	N/A
Unit Type	%
Time Period	Monthly
Direction	Maximize
Thresholds	
Release	9.03

% of Nodes with Compliance Issues KPI

Component Type	KPI
Business Questions	Make sure our node compliance procedures are efficient.
Business Objective	Increase Compliance
Description	The number of nodes that were not compliant during the KPI Period relative to the total number of nodes.
Context	PolicyCompliance
Data source	SA, NA, DP, UCMDB, NNM, IC
Formula	PERCENTAGE_MATH(COUNT_DISTINCT(Node.Name, PolicyResult.ComplianceStatus='In_breach' AND Node.IsDropped ='N' AND PolicyResult.ComputedResultDate IN_PERIOD), COUNT_DISTINCT (Node.Name,Node.IsDropped ='N' AND PolicyResult.ComputedResultDate IN_PERIOD),0)
KPI Formula Filter	N/A
Unit Type	%
Time Period	Monthly
Direction	Minimize
Thresholds	0 to 10 | 10 to 25 | 25 to 100
Release	9.03

% of Successful Patches KPI

Component Type	KPI
Business Questions	Reduce the risk by increasing the rate of successful patches.
Business Objective	Achieve Process Excellence
Description	The number of successful patches relative to the total number of patches.
Context	PolicyRemediation
Data source	SA and NA
Formula	PERCENTAGE(PolicyRemediation,Policy.Category='Patch' AND PolicyRemediation.Status='Success' AND PERIOD_ENTITY=Period, Policy.Category='Patch' AND PERIOD_ENTITY=Period,100)
KPI Formula Filter	N/A
Unit Type	%
Time Period	Monthly
Direction	Maximize
Thresholds	0 to 50 | 50 to 80 | 80 to 100
Release	9.03

Average Time to Configure a Node KPI

Component Type	KPI
Business Questions	Make sure our node configuration procedures are efficient.
Business Objective	Improve ROI of Automation
Description	The average time it takes to configure a node
Context	PolicyRemediation
Data source	SA and NA
Formula	AVG(PolicyRemediation.AvgExecutionTime,Policy.Category='configuration' AND PERIOD_ENTITY=Period)
KPI Formula Filter	N/A
Unit Type	Minutes
Time Period	Monthly
Direction	Minimize
Thresholds	0 to 15 | 15 to 30 | 30 to 60
Release	9.03

Average Time to Deploy an Application KPI

Component Type	KPI
Business Questions	Measures the effectiveness of application transformation and automation. Breakdown by application type (Oracle, SQL, etc...).
Business Objective	Accelerate Agility
Description	The average time it takes to deploy an application.
Context	PolicyRemediation
Data source	SA, NA
Formula	AVG(PolicyRemediation.AvgExecutionTime,Policy.Category='Application' AND PERIOD_ ENTITY=Period)
KPI Formula Filter	N/A
Unit Type	Minutes
Time Period	Monthly
Direction	Minimize
Thresholds	0 to 15 | 15 to 30 | 30 to 60
Release	9.03

Average Time to Patch a Node KPI

Component Type	KPI
Business Questions	Measures how fast the IT department reacts to security vulnerabilities.
Business Objective	Accelerate Agility
Description	The average time it takes to patch a node.
Context	PolicyRemediation
Data source	SA and NA
Formula	AVG(PolicyRemediation.AvgExecutionTime,Policy.Category='Patch' AND PERIOD_ENTITY=Period)
KPI Formula Filter	N/A
Unit Type	Hours
Time Period	Monthly
Direction	Minimize
Thresholds	0 to 1 | 1 to 8 | 8 to 60
Release	9.03

Average Time to Provision a Node KPI

Component Type	KPI
Business Questions	Measures the time needed to provision an asset with the goal of reducing that time period. It can be broken down by Node Role: applications, databases, virtual, physical, storage, network devices, and more.
Business Objective	Accelerate Agility
Description	The average time it takes to provision a node.
Context	PolicyRemediation
Data source	SA and NA
Formula	AVG(PolicyRemediation.AvgExecutionTime,Policy.Category='Provisioning' AND PERIOD_ ENTITY=Period)
KPI Formula Filter	N/A
Unit Type	Minutes
Time Period	Monthly
Direction	Minimize
Thresholds	0 to 15 | 15 to 30 | 30 to 60
Release	9.03

Average Time to Run Compliance KPI

Component Type	KPI
Business Questions	Measure the time it takes to run compliance of nodes. Breakdown by policy type (e.g.: security).
Business Objective	Increase Compliance
Description	The average time it takes to run a compliance.
Context	PolicyCompliance
Data source	SA and NA
Formula	AVG(PolicyResult.AvgExecutionTime,Policy.Category='audit' AND PolicyResult.ComputedResultDate IN_PERIOD)
KPI Formula Filter	N/A
Unit Type	Minutes
Time Period	Monthly
Direction	Minimize
Thresholds	0 to 15 | 15 to 30 | 30 to 60
Release	9.03

Frequency of Policy Checks KPI

Component Type	KPI
Business Questions	Make sure our policy check procedure is efficient.
Business Objective	Increase Compliance
Description	Measures how frequently compliance checks are run during the measurement period.
Context	PolicyCompliance
Data source	SA and NA
Formula	RATIO_MATH(COUNT(PolicyResult, PolicyResult.ComputedResultDate IN_PERIOD),COUNT(Node , Node.IsDropped= 'N' And Node.IsManaged='Y'),30)
KPI Formula Filter	N/A
Unit Type	#
Time Period	Monthly
Direction	Maximize
Thresholds	0 to 2 | 2 to 5 | 5 to 10
Release	9.03

Mean Time to Recover from Non-Compliance KPI

Component Type	KPI
Business Questions	The motivation is to both reduce the risk from the perspective of compliancy issues and to improve the responsiveness and agility of IT. Compliant entities can be servers, network devices, applications. The attribute MTTI should be captured at few levels at SA, NA. Might also be based on CMDB CI life-cycle. Should be based on the ability to identify the need to perform remediation until patch is actually executed.
Business Objective	Accelerate Agility
Description	It represents the length of time and service level to which a business process must be restored after a non-compliance in order to avoid unacceptable consequences associated with a break in business continuity.
Context	PolicyComplianceStatus
Data source	SA and NA
Formula	PERCENTAGE_MATH(SUM(ComplianceStatus.Duration, ComplianceStatus.Status ='In_breach' AND PERIOD_ENTITY=Period), COUNT_DISTINCT(ComplianceStatus.StatusId , ComplianceStatus.Status='In_breach' AND PERIOD_ENTITY=Period), 0)/100
KPI Formula Filter	N/A
Unit Type	Minutes
Time Period	Monthly
Direction	Minimize
Thresholds	0 to 30 | 30 to 60 | 60 to 120
Release	9.03

Mean Time for Hardening KPI

Component Type	KPI
Business Questions	N/A
Business Objective	Increase Compliance
Description	The time it takes from identifying a risk to completing the Hardening process.
Context	PolicyComplianceStatus
Data source	SA and NA
Formula	DATE_CONVERT('s','h',SUM(ComplianceStatus.Duration, Policy.Category = 'hardening' AND PERIOD_ENTITY=Period)/COUNT_DISTINCT(ComplianceStatus.StatusId , Policy.Category = 'hardening' AND PERIOD_ENTITY=Period))
KPI Formula Filter	N/A
Unit Type	Hours
Time Period	Monthly
Direction	Maximize
Thresholds	
Release	9.30

Number of Servers Being Backed Up KPI

Component Type	KPI
Business Questions	Make sure our backup procedures are efficient.
Business Objective	Reduce Risk
Description	The number of servers being backed up
Context	DataProtection
Data source	DP, NA, UCMDB, NNM, IC, SA
Formula	COUNT_DISTINCT(Node.Name, Backup.Status = 'success')
KPI Formula Filter	N/A
Unit Type	Number
Time Period	Monthly
Direction	Maximize
Thresholds	0 to 50 | 50 to 75 | 75 to 100
Release	9.03

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