

Enterprise Maps

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User Guide

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be present in this PDF version. Those topics can be successfully printed from within the online help.

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Chapter 1: Get Started

HPE Enterprise Maps helps you centralize the enterprise infrastructure. This guide describes the key features and their inter-dependencies. It covers the following topics:

Feature	Description
"Catalog " on page 8	Explains how to create, edit, view artifacts and their relationships, and search for artifacts.
"Navigator" on page 46	Explains how to view related artifacts in graphical mode.
"Reports" on page 48	Explains how to view, print reports and customize the dashboard.
"Enterprise Architecture " on page 68	Explains how to use architecture management to manage architecture changes.
"Cloud Transformation" on page 79	Explains how to use Cloud transformation UI to manage applications' migration into Cloud.
"Surveys" on page 107	Explains how to start, undertake, manage and monitor surveys.
"Collaboration " on page 119	Explains how to add comments, ratings, notify other contacts, share artifacts (provide access to others), complete assigned tasks and view artifact feeds and events.
"Excel/CSV File Export and Import" on page 132	Explains how to export and import spreadsheet data.
"Extension for Sparx Systems EA " on page 144	Explains how to use the Extension for Sparx Systems EA.

Chapter 2: Catalog

The HPE Enterprise Maps Catalog tab home page starts you off with a set of panels which present the most common managerial functions. You can quickly jump to the desired UI by clicking the links on these panels.

Catalog	Transformation	Governance	Administration
Business Layer Capabilities & Functions Business Processes	Cloud Transformation Transformation Guide	Surveys Definitions Running Surveys	User Management User Management Task/Batch Processing
Application Layer Application Components	Implementation and Migration Roadmap Projects	Motivation Proposals & Demands	Integrations Settings
Application Services Application Interfaces & APIs	Plateaus & To-Be	Drivers Goals Requirements	Customize Customize UI Viewpoints
Technology Layer Services & Deployments	My Tasks Processes	Policy & Compliance	Data Model Policy Assertions Scripting
Servers System Software Deployment Specs & Scripts	Analysis Impact and Dependencies	Reports Principles Policies	Datasources Spreadsheet files
Recently Visited Here is the list of catalog items you	Investment Diagrams	Favorite Policy Reports Here you will see all policy reports	EA Modeling Tools PPM & APM
have visited in the past. Since you haven't visited any such item yet this list is now empty.	Surveys to Answer Migrate Applications into Cloud Migrate Applications into Cloud Migrate Applications into Cloud More	that you will mark as favorite in the catalog. There are no such policy reports now.	CMDB CSA & Codar XML & JSON files HPE EM Federation

However, these functions are also available from the main menus under their respective tabs. For example: Policies link under Governance panel is available in **Administration tab > Governance > Technical Policies** menu.

Ent	erprise Maps	CATALOG	REPORTS	NAVIGA	TOR	ADMINISTRATION
^	User Management 🗸	Configuration \vee	Governance ∽	Customiza	tion 🗸	
Adm	ninistration		Lifecycle Proc	esses		
+	× 🖹		Technical Poli	cies		
			Data Integrity Constraints			
	Name 🔺		Assertions Ins (ir			
	CSA Service Designs				ns (infra	astructure services) and top

Note: However, Administration panel is only visible to administrators.

Catalog Browser

The HPE EM catalog browser is the place for viewing artifacts by artifact collection type and Archimate model layer.

1. To open the catalog browser, click **Catalog > Artifacts > Show More**.

		Technology Layer	Motivation	Implementation and Migrati	on Content	
Business Services	★ Application Functions	A Infrastructure Functions	😭 🗖 Requirements	🛱 🗔 Deliverables	🟫 🎟 Contacts	
g Business Actors	🟫 🗢 Application Services	😭 🔲 Nodes	📩 🖉 Proposals	😭 🔲 Work Packages	👷 🕮 Organizational Units	5
Business Roles	😭 🕕 Application Interactions	😭 🛛 🌒 System Software	🛨 🖉 Constraints	😭 🔲 Programs	😭 🔲 Persons	
Distances Collaborations	😭 🐔 Application Components	🔶 🛛 🔿 Operating Systems	😭 🕕 Principles	🛱 🔲 Projects	😭 📑 Documentation	
Business Interfaces	🟫 ඟ Application Collaborations	😭 📃 Devices	😭 📵 Goals	😭 🕲 Financial Planning	🖄 💭 XML	
Locations	😭 🗢 Application Interfaces	🔶 📃 Servers	🜟 🔎 Assessments	😭 🛛 🚯 Project Financial Profile	😭 🛛 🖏 SVG Files	
💎 Data Centers	🏫 🗖 Data Objects	😭 🛛 💂 Server Profiles	🟫 🏶 Drivers	😭 🚯 Application Component	😭 🛄 Groupings	
Business Objects	☆	Server Classes	☆ 👁 Stakeholders	Financial Profile	Junctions	
Contracts	☆	Server Groups		I Plateaus	⁷ 品 Diagrams	
Business Processes	*	Communication Paths	슈	🖨 Gaps	🖓 🛃 Surveys	
A Business Functions	☆	🔀 Networks	☆		Survey Definitions	
Business Interactions	*	 Infrastructure Interfaces 	습		Spreadsheet Templates	5
Business Events	☆	Artifacts				
Representations	☆	Deployment				
😕 Meanings	☆	Specifications				
💭 Values		Infrastructure Services	☆			
Products	☆					

2. To open a collection of artifacts, click the type of artifact that you want to view. In this example, click **Servers** under the Technology Layer. It will appear under the artifacts as in below image:



Tip: You can pin the Server artifact collection to your Artifact menu, by clicking the Pin next to the Server collection. Pinning a collection makes it quick and easy to select.

Ent	erprise Maps
ñ	Artifacts 🗸 Create 🗸
	Business Services
	Business Processes
	Business Interactions
	Application Components
	Application Interfaces
	Nodes
	System Software
	Servers

3. After you select the artifact collection you want to view, the collection page opens. In the sample below, the Server collection is displayed.

Servers All		Located in: All Non-Reference	Filter				
+ / × …							
🗋 🔹 Name 🔺	Version	4	Alias	Server Type	Domain	Rating	Package
				τ-	T -	τ-	T -
□ ☆ 00144FA9533A_I2sun23-z1	1.0				Demo Example Domain		
□ ☆ 00144FA9533A_l2sun23-z2	1.0				Demo Example Domain		
□ ☆ 00144FA9533A_l2sun23-z3	1.0				Demo Example Domain		
A 2k332ddmidev,w2k3autodev Windows 2003 R2 Server Enterprise Edition	Service Pack 2				Demo Example Domain		
AILUK Windows(R) Server 2003	5.2.3790				Demo Example Domain		
AMBAE Windows(R) Server 2003	5.2.3790				Demo Example Domain		
ARDTUN Windows(R) Server 2003	5.2.3790				Demo Example Domain		
Vindows 2000	5.0.2195				Demo Example Domain		
Vindows(R) Server 2003	5.2.3790				Demo Example Domain		
Vindows(R) Server 2003	5.2.3790				Demo Example Domain		
	Hide descriptions Change Page Size						

4. To customize your view, you can sort, filter, and manage columns.

Note: Column filters are not visible if all artifacts are shown on a single page.

5. You can use controls at the bottom of the collection page to control the page size and amount of

description displayed. Revised page sizes are stored. To reset, go to **User Settings** menu on the top right, under the user name.

Q Sea	arch	_	nistrator entation
t Docum	Sh	ow Event	219 New
	System Administrat		stration
	User Set		Settings
		S	ign Out

6. To perform bulk operations on artifacts in the collection, you can use the toolbar at the top of the collection page.



7. You can set up custom filters, such as a filter for favorite artifacts or artifacts that you own.

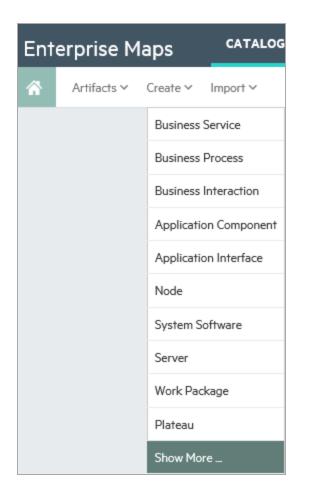
Specify your own search criteria using the form below.			
Enter text to search			
Keywords:		~	
Last modified:	Any Time	~	
Add Criteria Search Clear			

Creating Artifacts

You can use HPE EM to create new artifacts, and the attributes and relationships that impact those artifacts.

To create a new artifact:

1. Click **Catalog > Create > Show More** to open the catalog browser Create Artifact window.



2. Select the artifact type that you want to create. The new artifact opens. In this example, select the **Business Function** artifact on the Business Layer.



3. Or you can click the **Open create dialog for this artifact** icon on Business Function collection page to create a new artifact.



4. Enter the name of your new artifact. You can optionally add a **Description**, select a **Status**, **Investment Priority**, or **Type**.

Business Function	
Name: • Description:	STARTEGY & PLANNING
	A business function for strategy and planning decisions.

5. In the Documentation area, you can attach or link to any associated documentation. Documents that you load are viewable on the Documentation tab.

Documentation			
1 %	Add an existing		
	artifact		

6. To add documentation from an existing artifact, click the **Add an existing artifact** icon. The Select Artifact window displays a list of documentation artifacts to choose from.

Ente	er text	to search				
Artifa	ct Type	< Any > V	Keywords:		~	
	d Criteria	Search Clear				
	N	ame 🔺	Artifact Type	Vers	ion	
		ame 🔺 nPlanner BR.docx 📩	Artifact Type Documentation	Versi 1.0	ion	
	☆ Fi				ion	

7. To add a link to documentation from a web resource, click the **Link a Web Resource** icon. The Add Document Reference window opens and you can use it to enter the document URL, the document type, and any text or keywords that you want to appear with the link.

Add Document I	Reference		×
Document URL			
Type: Optiona		~	
Link Text			
Advanced Options			
		Add	Cancel

8. To attach a documentation artifact directly, click the Upload a Local File to the repository icon. The Attach Document window opens and you can use it to enter the document source location, the document type, the server folder, and the location where the document should reside after upload, as well as keywords that you want to enable so that users can find the document. In this example, the document types are shown.

Attach Documen	t	×
Source:	• File O URL	
		Browse
Type: Optional	< No Value >	x ~
Server Folder:	< No Value >	∧ Select
Location after Upload:	Business Requirements	faultDomain
Advanced Options	Detailed Design	
	Functional Specification	
	Installation Instructions	pload Cancel
	Technical Specification	
	User Manual	_
	Analysis	<u>~</u>

9. Click **Save** to save the new artifact that you created. Your new artifact record is displayed and you can add or modify attributes and relationships using the tabs. Documentation artifacts are shown

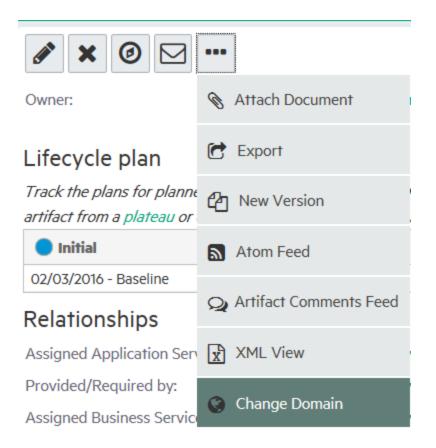
on the Documentation tab.

Overview	<i>∦</i> × ∅ ⊠ …			
Documentation	A business function for strategy and p	A business function for strategy and planning decisions.		
	Owner:	Administrator		
Tree View	Relationships			
Lifecycle	Realized by Projects.	Link new, Link existing		
	Composed Of:	Link new, Link existing		
Access Rights	Fully Automated By:	Link new, Link existing		
	Used Application Architecture:	Link new, Link existing		
History	Realized Business Services:	Link new, Link existing		
	Used Business Services:	Link new, Link existing		
Show More	Accessed Business Objects:	Link new, Link existing		

Domain Visualization

EM enables you to create or import artifacts in your working domain in which the artifacts are created or imported. Click *Located in <domain>* and select the working domain. You can click the domain name and change if required as depicted in the 2 images below.





To switch the working domain, click *Create new in <domain>* in Enterprise Maps header and select from the list. Thereafter, the artifacts are created or imported in the new working domain.



When you view artifacts through reports menu tab, the *Show data in <domain>* indicates the domains where artifacts are queried from. The selected domains are personalized for each user and are retained across Catalog collections, Navigator and Reports UI.



The data in Show data in <domain> is displayed as follows:

All Non-reference

If As-is/To-be Architecture and Demo Data domain types are selected. This is the default domain (i.e. excluding Reference Model domains).

All Reference Models

If Reference Model domain type is selected.

All Architecture Domains

If As-is/To-be Architecture domain type is selected

All Demo Data Domains

If Demo Data domain type is selected

All Domains

If As-is/To-be Architecture, Demo Data and Reference Model domain types are selected.

All Reference Architecture Domains

If As-is/To-be Architecture and Reference Model domain types are selected.

All Reference Demo Domains

If Demo Data and Reference Model domain types are selected.

Selected Domains

If one or more domains are selected from list.

Note: Show data in <domains> is not applicable to the following reports:

- Policy reports (use Definition UI to set domains)
- Governance Dashboard
- Custom reports (use DQL or SQL definitions to query artifacts)

Searching for Artifacts

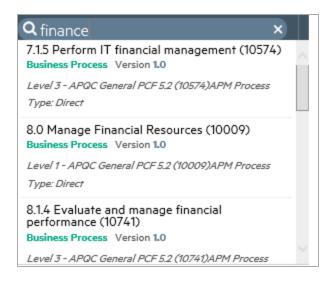
HPE EM enables you to perform artifact search quickly and easily from every page.

To perform a basic search:

1. Enter the text to search for in the Search box.

Ent	erprise Maps	CATALOG	REPORTS	NAVIGATOR	ADMINISTRATION	Q Search_	Create new in Default Domain ▼	Administrato	er m
ñ	Artifacts 🗸 🦷 Create 🗸	Import ~				수 Favorites 🔊 R	ecent Documents	≣ My Tasks 🔞	I

2. For example, if you search for the word "finance," a drop-down list of results is displayed.



3. Click on the artifact you are interested in to open the Artifact details page.

To perform an advanced search:

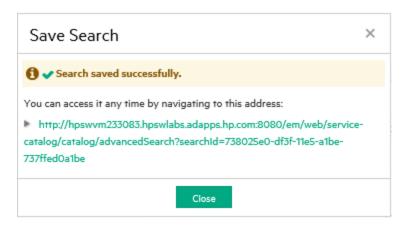
1. Enter the text to search for in the Search box and press enter. The Search page opens showing the text you searched for. In this case, the search word "finance" is shown.

inance					
tifact Type:	< Any > V		Keywor	ds:	
st Modified:	Any Time 🗸		Domain	: < All [)omains >
X Name	Artifact Type	Version	Owner	Domain	Rating
	Business Function	1.0	Andy Miller	Demo Example Domain	
Collecting Finance Information	business i unenon				
-		1	Administrator	Demo Example Domain	****
Corporate Finance System (APA asset Class: TransactionalInternal Rate of Return:	Application Component 6 - 9.99%.Strategic Match: Direct achievement (Demo Example Domain	****

- 2. To refine your query, use the additional boxes to add additional search terms, key words, or to add criteria.
- 3. If you want to save the Search for future use, click **Save**. The Save Search box opens.

Save Search ×				
Name:	My Finance Search			
	Shared search			
Search Criteria				
Text:	finance			
	Save Cancel			

4. Type the name of your search, and then click **Save**. You can access your search at any time by navigating to the URL address provided. You can also share the search URL with others.



Once you have saved a search, it is displayed each time you click Load in the Search page.

Add Criteria	Search	Save	Load	Clear
			My Financ	
			Manage S	
A × ·	-			

Artifact View Page

An Artifact View page in the Catalog tab presents comprehensive details about each object in the Catalog. Also it provides access to functionality required to perform most of the actions related to individual artifacts.

Each artifact contains a large amount of detail, hence an Artifact View page is organized into a set of tabs enabling you to focus on particular aspects of the artifact.

Access Artifact View page by clicking the name of an artifact wherever it appears in the Catalog tab.

fin-planner-1.0.ear, • Artifact	version 1.0			
Overview				
Documentation	Owner:	🛓 Joseph Banks		
	Relationships			
Tree View	Assigned System Software:	Link new, Link existing		
	Deployment Package of:	ASCENT		
Lifecycle	Stored Data Objects:	Link new, Link existing		
	Accessed by Services:	Link new, Link existing		
Compliance	Associated with:	us5678vm.company.com		
Access Rights	There are additional rarely used relation	onship types that are not defined on this artifact yet. Show them all		
History				
Show More				

The page header displays the artifact name, artifact type, and artifact ratings. For details about ratings, see "How to Use Ratings" on page 126.

The Artifact page contains all available tabs. When you click More further tabs are displayed.

Note: The available tabs and functionality vary according to your role, the artifact type, and your permissions.

Tabs	Tab Content
"Overview Tab" on the next page	The most important information about the artifact, such as its major properties, the most important relationships, overviews of events, tasks, last edits, overview of policy compliance and keywords.
"Documentation Tab" on page 24	Manage the documents associated with the artifact.
"Cloud Transformation Tab" on page 26	Provides the ability to start, manage and review surveys, which helps assess and analyze current application components. Enables publish of service designs, cost estimation deployment and cloud assessment. Assessment can be done from financial, business and technical perspectives.
"Financial Profile Tab" on page 28	View and manage the financial properties of a Project or Application Component artifact. This tab is only available on the detail page of the project or application component artifact.
"Tree View Tab" on page 29	Shows an artifact structure browser. It either displays composite structure or impact report. In addition to artifact basic information (such as name, owner and type) the browser captures lifecycle

Tabs	Tab Content
	information such as the current stage.
"Lifecycle Tab" on page 30	Information related to the artifact lifecycle, including as a graphical view of the lifecycle process showing stage details.
"Compliance Tab" on page 31	A detailed breakdown of the current policy compliance status of the artifact.
"Access Rights Tab" on page 32	View and manage the access rights for the artifact.
"History Tab" on page 33	Lists artifact revisions enables users to compare selected two revisions and see the differences between them.
"Events Tab" on page 33	Contains all events related to the artifact.
"Contacts Tab" on page 34	View and manage the contacts for the artifact.
"Relationships Tab" on page 35	View all the incoming and outgoing relationships for the artifact.

Overview Tab

The Overview tab is the default view of an artifact and contains the most important information about the artifact and access to the most common artifact operations.

Finflex Web, version 1 Application Component, governed in							Located in Demo Example Doma no votes 🖈 🛧 🛧 対
Overview	🖋 🗙 🞯 🖂 …						Add to Favorite
	No description entered yet Edit					Description (2000 characters max)	My Task No tasks define
	No specification entered yet					Specification	Last Ed Administrati
	Owner:	🛓 Joseph Banks					Lifecycle Compliant No policy compliant data is available becau
	Estimated Number Of Servers: Estimated Network Traffic (GB/month	8): 20					this lifecycle stage does not have any required technical policies.
	Type: Architecture:	SeeS Desktop					Policy Complian
	Cloud Transformation Strategy: Number of Users:	Automated 11011					Application Architecture Data 85 Quality
	Lifecycle plan						Cloud Transformation Data 88 Quality Architecture Duplication 100
History				erenced as 'Baseline'. You can add a pl e system will automatically request a l		n this artifact or by linking this artifact from a plateau or deliverable. The date ie.	Planning Consistency 100 More
Show More	 Candidate 	Development	Production	 Deprecated 	Retired	Cancelled (Current)	Keyword
	Link new, Link existing	Link new, Link existing	Link new, Link existing	Link new, Link existing	Link new, Link existing	06/16/2016 - Baseline (Approved) Link new, Link existing	None s & El
	Relationships						Contac
	Realized application services.	Link new, Link existing.					Project Manag
	Used Servers/Nodes.	vmamqa296, qasmautoi					Dave Ols
	Realized by Projects:	Link new, Link existing.					Joseph Ban Nicole Smi
	Fully Automates:	Link new, Link existing.					Administrat
	Supporting System Software:	Link new, Link existing.					Dave Ob
	Default Server Class:	Class HM2XL					Joseph Bar
	Supported Operating Systems:	Linux 🔤					Hary Ri
		GetEFORMDetail, Updat	teCalls =				Operations Manag
	Used Application Architecture:	Gener Grundenan, Opda					
	Used Application Architecture: Used Infrastructure:	Link new, Link existing.					Bey Bail
							Joseph Ban
	Used Infrastructure:	Link new, Link existing.					Joseph Bar Nicole Sm
	Used Infrastructure: Application Function:	Link new, Link existing. Link new, Link existing.					Joseph I

Overview Tab Content

Content	Description
Description	The description of the artifact with 2000 characters max.

Content	Description
Specification	The first sentence of artifact's specification. To view more detail, click at More link to open the Specification tab.
Properties	The first section of the page displays the most important properties of the artifact including options to compare versions, and set the provider.
Relationships	The most important relationships display in the Overview tab and in case of a service, the implementations. Click Show them all to show the full relationships section.
Latest Events	Displays the latest actions affecting the artifact. Click More to open the Events tab or the Tool icon to customize the Events component content. For details, see "Events Tab" on page 33 and "How to Use Events" on page 123.
Architecture Changes (Plateau & Deliverable only)	Manages changes for plateau or deliverable. For details, see "Setting Target Architecture" on page 75
Context Actions	Displays a set of context actions for the artifact relevant to the artifact type, its current status, and your role. The available actions include the following:
	Edit - Open the Edit artifact page.
	• Attach Document - Attach a local or remote document to the artifact.
	• Navigator - Switch to the graphical navigator view for the artifact.
	Delete - Delete the artifact and its sub-artifacts
	• Export - Create a ZIP archive for the artifact and its sub-artifacts.
	• New Version - Create a new version of the artifact and its sub-artifacts.
	• Atom Feed - Publish a feed for artifact changes or artifact comments. For details, see "How to Use Feeds" on page 127.
	• Send Notification - Send an email notification to artifact stakeholders. For details, see "How to Use Notifications" on page 121.
	Change Domain - Move the artifact to another domain.
	• Artifact Comments Feed - Subscribing to the feed allows you to view the latest updated comments on the artifacts.
	• XML View - Shows the code view of the artifact.
Last Edit	Displays the user and time for the last change to the artifact.
Policy Compliance	Displays the current compliance status with an option to recalculate it.
My Tasks	Displays any actions you may be required to perform related to the artifact. For

Overview Tab Content, continued

Content	Description
	details, see "How to Use Tasks" on page 125.
Add to Favorites	Click this button to add the artifact to Favorites. Once the artifact is added, the button changes to Favorite button instead. Click this button again to remove it from Favorites.
Keywords	Displays any custom tags applied to the artifact with the option to edit them.
Contacts	Displays the contacts for the artifact with the option to edit them.

Overview Tab Content, continued

Documentation Tab

The Documentation tab provides a place to view and manage the documents associated with the artifact. There are 3 sub-tabs as follows:

Attached Documents

Attached Documents are Documentation artifacts associated with this artifact. For example, a project planning documents of a project.

Overview	Specification Attached Documents	Discussion		
Documentation	10% + × B			
Financial Profile	□ Name ▲	Туре	Date	Version
Tree View	FinPlanner HLD.docx	Analysis	1/20/2014	1.0
Lifecycle	FinPlanner BR.docx	Business Requirements	1/20/2014	10
Compliance				
Access Rights				

Content	Description	
Documentation Table	Displays list of documents associated with the artifact with functionality to manage them and add more.	

Attached Documents Sub-tab Content

Specification

The Specification sub-tab provides a place to view and manage a detailed description of the artifact including rich text and HTML support.

Overview	Specification Attached Documents Discussion		
Documentation			
Tree View	Account Service Features:		
Lifecycle	 Balance check Cash withdrawal Savings Bank Transfers Overdraft Facilities 		
Compliance			
Access Rights	24 Hours Account Access		

Specification Sub-tab Content

Content	Description
Detailed Description	Displays full description for the artifact.
Edit Specification	Changes the Detailed Description area to an input form with rich text and HTML support.

Discussion

This sub-tab provides a forum for users to comment and discuss the artifact.

Overview	Specification Attached Documents Discussion
Documentation	Q 🗭 X 🔳
Financial Profile	
Tree View	Admin Administration Utilit Administrator, 3:10 PM
Lifecycle	Admin Administration
Compliance	Utilities
Access Rights	

Discussion Sub-tab Content

Content	Description
Discussion Threads	The main part of the page displays discussion threads and comments about the artifact with options to Reply , Edit , and Delete comments.
Context Actions	Displays a set of discussion context actions for the artifact. The available

Discussion Sub-tab Content, continued

Content	Description
	actions include the following:
	• Show List / Threads - Organize the discussion by comments or by threads.
	• Sort - In the list view, organize the comments by newest or oldest first.
	• Add Comment - Start a new discussion about the artifact.
	Delete All Comments - Remove all comments and threads about the artifact (administrator only).
	• Artifact Comments Feed - Obtain a feed URL that you can use in a feed reader or in the Reports Tab. For details, see "How to Use Feeds" on page 127.

For details about using the Discussion features, see "How to Use Comments" on page 120.

Cloud Transformation Tab

The Cloud Transformation tab provides the ability to start the survey for the application component, review available answers and assessment results. From the UI it allows you to publish the application to CSA as a deployable component using predefined templates (service designs or reference models).

This tab is available only for Application Component and its sub-artifacts. Description of different tabs within Cloud Transformation tab are as follows:

Overview sub-tab:

Provides an overview of the cloud transformation state including top-level scores, transformation strategy, deployment models and few other aspects.

Overview	To migrate an application into cloud you nee requirements. To get this information fill-in to			del. For example the application must	t support execution on a virtual machine on the other hand the target de
Documentation	Overview Financial Alig	nment Business Alignment	Technical Alignment	Deployment Models	
Cloud Transformation	Cloud Transformation Score	2			
Financial Profile	How this application meets conditions to Individual metrics that lead to the decision				Technical Score
Tree View	Show more information				
Lifecycle	Financial Alignment: Business Alignment:	N/A 82.67 of 100			Financial Score
Compliance	Technical Alignment: Cloud Transformation Strate	25.23 of 100 egy			Business Score
Access Rights	The Cloud Transformation Guide is used applications that are selected for cloud tr				Current alignment Minimum Alignment for Public Cloud hosting
	infrastructure Service Design from the de	'			
	Cloud Transformation Strategy:	Automated			
Show More	Deployment Models to Automate:	N/A			
	Automated Deployment Models:	N/A			

Financial Alignment sub-tab:

Assesses the viability of transformation from a financial perspective (rough and model-based estimated cost for deployment onto different data centers).

	Overview	Financial Alignment	Business Alig	gnment Techn	ical Alignment	Deployment Models
1	Defines alignment of : Financial Assessment Show more inf Financial Alignment S	formation	irvey	he financial perspective	using a score of 0-10	10. High score means that resources for the transformation are available and the transformation leads to reasonable savings. These scores are calculated based on a survey Cloud
1	Deployment C	osts				
	Estimate Type:	Тс	otal estimate based o	on the number of server	s property *) 💌	
	Current Data Cente		edicated Hardware	Hosting =		3600,000
	Current Costs:		585,447			3400,000
	Recommended Data		mazon AWS -			\$300,000 -
	Used Servers/Node					\$200,000 -
						\$100,000 - 2
Ш		Dedicated Hardware Hosting (so
Ш	Class HML (15)	e	\$583,647	\$33,135	\$73,634	
Ш	Networking		\$1,800	\$1,200	\$1,800	-
	Total		585,447	\$34,335	\$75,434	v
	You need to provide	le more information about this ap	oplication compone	ent so that we can esti	mate costs of the dep	Noyment at different infrastructure vendors. Please fill in the details below.
	Estimated Number	Of Servers: 15	Edit			
Ш	Compatible Operati	ing Systems: M	icrosoft Windows	**		
	Default Server Class	s: Cl	ass HML			
	*) This estimate is b	based on the "Estimated number	of servers" proper	rty of this application a	nd relationships defii	ning operating system and server class required to run the application.

Business Alignment sub-tab:

Overview Financial Alignment Business Alignment Technical Alignment Deployment Models **Business Alignment** Defines alignment of this entity with possible cloud deployment from the business perspective using a score of 0-100. These scores are calculated Workload Variability 100 Geography based on a survey Cloud Business Assessment. Show more information
 Z Take New Survey
 Review Survey Answers Security Regulatory Regulatory Alignment: 87 Vendor Support Alignment: 88 Service Availability Alignment: 96 Service Availability Vendor Support 75 Security Alignment: Current alignment 📕 Minimum Alignment for Public Cloud hosting Workload Variability Alignment: 73 Geography Alignment: 77

Assesses the viability of transformation from a business perspective.

Technical Alignment sub-tab:

Assesses the viability of transformation from a technical perspective.

Overview Financial Alignm	ent Business Alignment	Technical Alignment	Deployment Models	
Technical Alignment Defines alignment of this entity with possible based on a survey Cloud Technical Assessme O Show more information			75. These scores are calculated	Infrastructure Requirements 100 58 59 50 50 50 50
Architecture Alignment:	45,455 34,286			HPE CSA
Performance Requirements Alignment: HPE CSA Alignment:	26.667 5			Performance Requirements Internet Access
Infrastructure Requirements Alignment: Cloud Operating Model Alignment:	3.333 36.667			Current alignment Minimum Alignment for Public Cloud hosting

Deployment Models sub-tab

Deployment Models UI is entirely to manage the deployment models associated with this application and to build CSA service designs on top of these models.

		icture service together with vari	ious technology-layer elements that pr	wide run of the application. Deployment Models are required for ap	plications that are selected for cloud transformation and require a
tween working environments and S	LUS.				
Show more information					
ference Applications:	Link ex	isting			
SCENT' Deployment M	odels				
lect a deployment below to get mo	re details and possi	ibly to create a service design fo	or it. You may also associate an existing	service design with the deployment model then.	
ployment Model:	ASCE	NT Production 🔻			
ASCENT Production					
invironments:	Prod	uction, Staging			
/isualized by Diagrams:	N/A				
CSA Service Designs:	ASCE	NT Production - Service Design	1		
Create new Service Desi	gn Associa	te Existing Service Desigr	1		
The following table displays the ma	pping of deployme	nt model elements to CSA Topo	ology Components. The CSA Topology	Component column is editable, if you wish to change the mapping.	
The following table displays the ma The topology components must be			ology Components. The CSA Topology	Component column is editable, if you wish to change the mapping.	
			ology Components. The CSA Topology	Component column is editable, if you wish to change the mapping.	
The topology components must be			ology Components. The CSA Topology	component column is editable. If you wish to change the mapping.	
The topology components must be t3 Synchronize with CSA				omponent column is editable. If you wish to change the mapping.	[Search @ Q]
The topology components must be C3 Synchronize with CSA Application Model Element	imported from CSA	A first.	CSA Topology Component		Search. © Q
The topology components must be Synchronize with CSA Application Model Element Name †	Imported from CSA	Type	CSA Topology Component Name	Component column is editable. If you wish to change the mapping.	Search. I Q
The topology components must be Synchronize with CSA Application Model Element Name † ASCENT	Version 1	Type Application Component	CSA Topology Component Name Missing, will be created		Search. I Carlos
The topology components must be Synchronize with CSA Application Model Element Name † ASCENT ASCENT DB	Version 1 1.0	Type Application Component Database Schema	CSA Topology Component Name Missing, will be created = Missing, will be created =		Search. © Q
The topology components must be Synchronize with CSA Application Model Element Name † ASCENT ASCENT 0 ASCENT 0 ASCENT 0	Version 1 1.0 1.0	Type Application Component Database Schema JZEE Application	CSA Topology Component Name Missing, will be created Missing, will be		[Search @ Q]
The topology components must be Synchronize with CSA Application Model Element Name † ASCENT ASCENT B ASCENT Web Ascent Web	Imported from CSA Version 1 10 10 6.0.18	Type Application Component Database Scheme J2EE Application System Software	CSA Topology Component Name Missing, will be created = Missing, will be created = Missing, will be created =		Search. © Q
The topology components must be Synchronize with CSA Application Model Element Name † 4 ASCENT 4 ASCENT Meb 4 ASCENT Web 4 Apache Tomcat 6 Oracle DB	Imported from CSA Version 1 10 10 6.018 112.01.0	I first Type Application Component Database Schema J2EE Application System Software System Software	CSA Topology Component Name Missing, will be created Missing, will be c		Search. O Q
The topology components must be Synchronize with CSA Application Model Element Name † 1 ASCENT 1 ASCENT B 1 ASCENT Web • Apache Tomcat • Oracle DB • Windows 2003	Imported from CSA Version 1 10 10 6.0.18 11.2.0.10 5.2.3790	t first. Type Application Component Database Schema J2EE Application System Software System Software System Software	CSA Topology Component Name Missing, will be created		Search I Q
The topology components must be Synchronize with CSA Application Model Element Name † 4 ASCENT D 4 ASCENT D 4 ASCENT Web 4 ASCENT Web 4 ASCENT Web 4 ASCENT Web 4 ASCENT B 5 Mindows 2003 5 Windows 2008 R2	Imported from CSA Version 1 10 10 6.018 112.01.0	I first Type Application Component Database Schema J2EE Application System Software System Software	CSA Topology Component Name Missing, will be created Missing, will be c		Search. @ Q
The topology components must be Synchronize with CSA Application Model Element Name † 4 ASCENT 0 4 ASCENT 0 4 ASCENT Web 4 ASCENT Web 4 Apache Tomcat 5 Oracle DB 9 Windows 2003 9 Windows 2003 R2 9 pdo2003-01labs:00a.com	Version 1 10 6.018 112010 5.2.3790 6.17600	first Type Application Component Database Schema J2EE Application System Software System Software System Software System Software System Software	CSA Topology Component Name Missing, will be created = Missing, will be created =		Search. Q Q
The topology components must be Synchronize with CSA Application Model Element Name † ASCENT ASCENT B ASCENT B ASCENT Web Apple Tomate Oracle DB Windows 2003 Windows 2003 Windows 2008 R2 pdo2005 Otlabs.coaecom R ymamag284	Imported from CSA Version 1 10 6.018 112.010 5.23790 6.17600 10	first Type Application Component Database Schema J2EE Application System Software System Software System Software System Software System Software System Software	CSA Topology Component Name Missing, will be created Depends on datacenter		Search @ Q
The topology components must be Synchronize with CSA Application Model Element Name † ASCENT ASCENT B ASCENT B ASCENT B ASCENT Web Apach Tomeat Oracle DB Windows 2003 Windows 2003 Windo	Imported from CSA Version 1 10 6.018 112.010 5.2.3790 6.17600 10 6.17600 5.2.3790	t first. Type Application Component Database Schema J2EE Application System Software System Software System Software System Software System Software Server	CSA Topology Component Name Missing, will be created Depends on datacenter Depends on datacenter		
The topology components must be Synchronize with CSA Application Model Element Name † 4 ASCENT 4 ASCENT 08 4 ASCENT 08 4 ASCENT 08 4 ASCENT 08 5 ASCENT 08 4 ASCENT 08 5 ASCENT 08 4 ASCENT 08 5 ASCENT 08 4 ASCENT 08 5 ASCENT	Imported from CSA Version 1 10 6.018 112.010 5.2.3790 6.17600 10 6.17600 5.2.3790	t first. Type Application Component Database Schema J2EE Application System Software System Software System Software System Software System Software Server	CSA Topology Component Name Missing, will be created Depends on datacenter Depends on datacenter		Search (Q)
The topology components must be Synchronize with CSA Application Model Element Name † 1 ASCENT 2 ASCENT 2 ASCENT We 4 ASCENT We 4 ASCENT We 4 ASCENT We 5 Ascent Tomest 5 Oracle D8 9 Windows 2003 R2 2 Windows 2003 R2 2 Windows 2008 R2 2 Windows 2 Wi	Imported from CSA Version 1 10 6.018 112.010 5.2.3790 6.17600 10 6.17600 5.2.3790	t first. Type Application Component Database Schema J2EE Application System Software System Software System Software System Software System Software Server	CSA Topology Component Name Missing, will be created Depends on datacenter Depends on datacenter		
he topology components must be Synchronize with CSA Application Model Element Name † ASCENT 08 ASCENT 08 ASCENT 08 ASCENT Web Apache Tomcat Oracle 08 Windows 2003 Windows 2003 Windows 2008 R2 pdo2030-1014bsc0a.com g vmamag284 Q vmdoc10	Imported from CSA Version 1 10 6.018 112.010 5.2.3790 6.17600 10 6.17600 5.2.3790	t first. Type Application Component Database Schema J2EE Application System Software System Software System Software System Software System Software Server	CSA Topology Component Name Missing, will be created Depends on datacenter Depends on datacenter		

Financial Profile Tab

The Financial Profile tab provides a place to view and manage the financial information associated with an Application Component or Project.

Overview		Financial Information for FY2016 Here you can see financial plan for the next fiscal period. This information is the source for most financial reports except those that are focused on tren				
Documentation	View Details & Edit	Take New Survey	Review Survey A	Answers		
Cloud Transformation	Period:	FY20	16			
Financial Profile	Annual Cost of Software: Annual Cost of Hardware:	\$ 35,0 \$ 95,0				
Tree View	Annual Cost Labor Internal: Annual Cost Labor External:	\$ 100 \$ 100				
Lifecycle	Annual Cost Other: New Fiscal Period	\$ 300	,000			
Compliance	History					
Access Rights	You can review financial profil	les created in previous ye	ars. It is also possible to	update this or create ne	w records for previous th	at have passed already.
History	⁰ ★	1		1	1	
Show More	Period FY2015	Software Cost \$35,000	Hardware Cost \$950,000	Internal Labor Cost \$700,000	External Labor Cost \$16,000	Other Cost \$65,000

Artifact Financial Profile Tab Content

Content	Description
Financial Information	Shows the financial information associated with the current fiscal period.
New Fiscal Period	Click this button to create a new financial profile and set it as the current fiscal period. Once the new profile is created, the current profile automatically moves to the History table below.
	The financial profile created by clicking this button is named automatically after the current application component/project name and the current fiscal period.
	To disable this feature change the <i>enableAutoNamingFinancialProfile</i> to false (for details see, "System Configuration Properties" in the <i>Administration Guide</i>).
	You can create only one record for each fiscal period
View Details & Edit	Click this button to modify the financial profile of the current fiscal period.
Take New Survey	Click this button to conduct a financial cloud assessment survey for the application component.
Review Survey Answers	Click this button to go over or reassess the survey answers.
History	View a summary of all financial profiles created in the past.

Tree View Tab

The Tree View tab allows you to explore the impact and dependency effects of the current artifact.

	Dependencies				A Show Impact
	Showing Dependencies of: Analyst Research				Show Lifecycle Tree
Cloud Transformation				Filter by Name: Go	Navigator
Financial Profile	Analyst Research	Candidate (@ In Progress)	Application Component Lifecycle	0.2	
	H III Persons (8)				
Tree View	E 📲 Business Objects	Candidate (@ In Progress)	Application Component Lifecycle	7.4	
The view	Persons (8)				
	Image: Imag				
	eExpense	Candidate (@ In Progress)	Application Component Lifecycle	5.4	
	Forms Magic	Candidate (@ In Progress)	Application Component Lifecycle	5.4	
Compliance	IFI WallChart	Candidate (@ In Progress)	Application Component Lifecycle	5.3	
	ap109vm7.c0a.com			1.0	
	sv109vm5.c0a.com			1.0	

The default Dependency view shows the tree of artifacts that the current artifact depends on.

Tree View Tab Content

Content	Description
Filter	Use the filter to highlight specific artifacts from the tree.
Artifact Tree	The tree displays impacting artifacts in Dependency view or impacted artifacts in the Impact view, organized by artifact type. Expand groups of artifact types and click artifact names to view their details.
Show Impact	Click to see the impact the current artifact has on the tree of artifacts.
Show Lifecycle Tree	Click to switch over and view the tree of artifacts that follow the current artifact in the lifecycle process.
Navigator	Open the graphical navigator view for the artifact.

Lifecycle Tab

The Lifecycle tab provides a visualization of the life cycle process to which the artifact belongs, and the functionality required to participate in its life cycle.

Overview	Application Component Lifecycle	Move to
Documentation	Candidate Development> Production Shared> Retired	Set Stage/Process
Cloud Transformation		K End Governance
		History
Financial Profile		Lifecycle Compliance
Tree View	I of 1 Tasks Incomplete	C Recalculate () Details
Lifecycle	Tasks	Policy Compliance
Compliance	⊕ Provide business requirements â Catalog User	Application Architecture Data 100 % Quality
	Policies	Architecture Duplication 100 % More
Access Rights	No items defined. Approvers	Managing Lifecycle
History	demoapprover O Vote Required, Passive Approval After 5 Days	This page enables you to manage the governance lifecycle of this artifact.

Artifact Lifecycle Tab Content

Content	Description
Lifecycle Process	The top part of the view displays the lifecycle stages for the lifecycle process

Content	Description
	the artifact belongs to. The larger stage box is the current stage in progress and the box highlighted in green matches the stage detail information below. Click a stage to view its details and use the arrow controls to view stages that are off the page.
Stage Details	The large green box displays the stage details for the stage selected above. For the current stage, the details start with a summary of the current lifecycle status. For all stages the details box displays the tasks, policies, and stage approvers. As a participant in the lifecycle you can use the stage details box to mark lifecycle tasks as complete, to validate policies associated with the stage, and to approve or reject approval requests.
Context Actions	Displays a set of context actions for the artifact relevant to its current lifecycle status and your role. The available actions include the following:
	• Start Governance - Put a non-governed artifact into an appropriate lifecycle process.
	• End Governance - Remove the artifact from a lifecycle process.
	• Set Stage/Process - Change the current stage and lifecycle process for the artifact (administrator only).
	 Request Approval - Request approval for the current lifecycle stage for the artifact.
	Cancel Approval - Cancel an approval request.
	• Notify Approvers - Send a notification email to the stage approvers.
	• History - View the lifecycle history for the artifact.
Compliance	Displays the current compliance status with an option to recalculate it.

Artifact Lifecycle Tab Content, continued

Compliance Tab

The Compliance tab provides a detailed view of the policies that apply the current lifecycle stage that the artifact belongs to with an option to view the XML representation of the resources that the policies validate.

Overview						
	Lifecycle Compliance					Show: OPolicies OAnnotated Sour
Documentation	This artifact is involved in an active lifecycle proce	ss. Here you can review the status o	f all policy assertions needed to be evalu	uated so that you can	n advance into new lifecy	vcle stage.
Cloud Transformation	Current Status: 0%					
	Policy 🔺	Туре	Status	Errors	Warnings	Validated Tasks
Financial Profile	Has Business Requirements	Required	🔗 Non-Compliant	1	0	Provide business requirements
	Policy Compliance Check the aggregated policy violations from all kn	own policy reports. You can review f	he current policy reports and also define	e a new one. You can	do that on the "Reports	* tab by selecting Create under All Reports.
Tree View Lifecycle		own policy reports. You can review f.	he current policy reports and also define	e a new one. You can	do that on the "Reports	" tab by selecting Create under All Reports.
Lifecycle	Check the aggregated policy violations from all kn Average Compliance: 100%	own policy reports. You can review f	he current policy reports and also define	e a new one. You can	do that on the 'Reports	* tab by selecting Create under All Reports.
	Check the aggregated policy violations from all kn Average Compliance: 100% Issues Found: 0	own policy reports. You can review f	he current policy reports and also define	e a new one. You can	do that on the 'Reports	

Compliance Tab Content

Content	Description
Show	Switch between the Policies view and the Annotated Sources view.
Policies	The table of currently applicable policies, their type, and current status.
Annotated Sources	Provides a detailed XML view of the relevant resources that the policies validate. This view is most useful to assertion and WSDL developers resolving validation errors.

Access Rights Tab

The Access Rights tab provides a detailed view of the users, groups, and roles with permissions for the artifact and access management actions for users with appropriate permissions.

Overview	6 🛛 × 🖻			📢 Share
Documentation	Entit Add read and write access to selected entities.	Туре	Access	Check Access of
	C 🔒 Architects	Role		Owner
Cloud Transformation	🗖 👸 Business Analyst	Role	Read	A Nicole Smith
	🕞 🔒 Business Partner	Role	Read	Change
	🗖 🗂 🗂 Project Managers	Role	🖋 Read/Write	Managing Access
	demoapprover	User	(Read	This page displays currently
Lifecycle				assigned access rights and allows their management.
Compliance				Note: If a Lifecycle is assigned to this artifact, manual changes to access rights will be overwritten without
Access Rights				notice.

Access Rights Tab Content

Content	Description
Access Rights Table	Displays the users, groups, and roles with permissions for the artifact and their rights. Users with appropriate permissions can manage the access rights using the table actions.
Context Actions	Displays a set of discussion context actions for the artifact depending on your role and artifact permissions. The available actions include the following:

Content	Description				
	• Share - Make the artifact visible to all users by giving them all read permission. For details, see "How to Share Artifacts" on page 130.				
	Check Access Of - Verify the access rights for a particular user.				
Owner	Displays the current user, group, or role ownership for the artifact with the option to change it for users with appropriate permissions.				

Access Rights Tab Content, continued

History Tab

The History tab provides a detailed view of the revisions of the artifact with functionality to compare revisions.

Overview	2					
Documentation		Revision 👻	Date	Actor	Lifecycle Stage	Lifecycle Process
		4	11:35 AM	Administrator		
Tree View		3	11:34 AM	Administrator		
Lifecycle		2	11:34 AM	Administrator		
		1	6/16/2014	Administrator		
Compliance						
Access Rights						
History						
Show More						

History Tab Content

Content	Description
Revisions Table	Displays a list of the revisions with details about the time of the change, who performed it, and lifecycle details. Click a revision number to view its details including options to revert to that revision or use the Compare Revisions action to examine the changes in detail.

Events Tab

The Events tab provides a detailed view of the actions performed on the artifact.

Overview							
	Actor: Select All Clear)						
Cloud Transformation	Event		Actor	Date 🔻	Туре		
	New comment reply on thread 'Artifact' has been added of	on Application Component 'Agr New	Administrator	12:28 PM	Comments		
Financial Profile	O New comment thread 'Artifact' has been created on Appl	ication Component 'Agresso'. New	Administrator	12:25 PM	Comments		
	\mathcal{O} New comment thread 'Comments for Artifact' has been co	reated on Application Compone New	Administrator	12:15 PM	Comments		
Events							

Events Tab Content

Content	Description
Events Table	Displays a list of the actions performed on the artifact with details about the time of the change, who performed it, and the type of action. Click an event to view the relevant artifact details or use the Actor filter to reduce the set of events to those you performed or those performed by other users.

Contacts Tab

The Contacts tab provides a detailed view and management options for contacts for the artifact organized by their contact type.

Overview	Business Owner						
Documentation							
		Name 🔺	Email	Phone	Location		
Cloud Transformation		Dave Olson	dolson@company.com				
inancial Profile		Jack Foster	jfoster@company.com				
		Nicole Smith	nsmith@company.com				
		al Owner					
ifecycle							
		Name 🔺	Email	Phone	Location		
ompliance		Bev Bailey	bbailey@company.com				
ccess Rights		Doris Wagner	dwagner@company.com				
		Nicole Smith	nsmith@company.com				
	Adminis	strator					
Contacts		1 ×					
		Name 🔺	Email	Phone	Location		
Show More		Andy Miller	euser@company.com				

Contacts Tab Content

Content	Description
Contacts	The set of contacts for the artifact organized by contact role. Users with appropriate permissions can manage the contacts.
Send Message	Send a notification email to selected users. For details, see "How to Use Notifications" on page 121.

Relationships Tab

The Relationships tab provides a detailed view of the related artifacts organized by outgoing and incoming relationships.

Overview	Outgoing							
Documentation								
	Relationship 🔺	Artifact	Туре	Version				
Tree View	Profile history of	A/R Billing Upgrade	Project	1.0				
Lifecycle	Realizes	0.0 APQC General PCF 5.2	Business Process	1.0				
	Incoming	Incoming						
Compliance								
Access Rights	🗌 Relationship 🔺	Artifact	Туре	Version				
	Associated with	Finance Review	Application Service	1.0				
History								
Relationships								

Relationships Tab Content

Content	Description	
Relationship Tables	Displays the set of outgoing and incoming relationships with details of the related artifact, its type and version, and the relationship type.	

Relationship Editor

The HPE EM relationship editor enables you to view and modify artifact relationships directly. Relationships can be those predefined within the ArchiMate model or you can add new relationships. Both ArchiMate and non-ArchiMate relationships are shown on the Overview tab view. You can add new or manage relationships by using the Relationship tab view.

This section covers the following topics:

- "Understanding Relationship Types" on the next page
- "Using Relationships Editor" on page 38
- "Adding an Artifact Relationship" on page 40
- "Removing an Artifact Relationship" on page 42
- "Adding and Removing a Shortcut" on page 44
- "Non-Compliant Relationships" on page 45

Understanding Relationship Types

Relationships are created according to the HPE EM SDM which is based on Archimate® specification. HPE EM supports the following relationship types:

- *Direct relationship*: relationships between the artifacts that are defined as relationship properties in SDM.
- Shortcut relationship: relationships that are derived from a chain of direct relationships. For more details, see "Shortcut Relationship" in *Concepts Guide*.

Direct relationships are further divided into 2 sub types:

- Compliant relationship: relationships defined in Archimate® specification.
- *Non-compliant relationship*: relationships not defined in Archimate® specification. These relationships are either HPE EM system relationships (for example: documentation) or user-defined relationships.

Compliant relationships are shown in normal color while non-compliant ones are highlighted in red.

	Relationships		
Access Rights	Realized application services:	Link new, Link existing	
History	Used Servers/Nodes:	Link new, Link existing	
	Realized by Projects:	Link new, Link existing	
Show More	Financial Profile:	ASAC	
	Financial Profiles History:	Link new, Link existing	
	Fully Automates:	Link new, Link existing	
	Used Application Architecture:	GetCCM, CRM UI	
	Used Infrastructure:	Link new, Link existing	
	Application Function:	Link new, Link existing	
	Used by Business Architecture:	Link new, Link existing	
	Deployment Specification:	ASAC, ASAC, ASAC	
	Provided by:	Nicole Smith Joseph Banks Nicole Smith Mary River and 20 more	
	Assigned From:	Dedicated Hardware Hosting	
	Default Server Class:	Class HML ···	
	Recommended Data Centers:	Amazon AWS	
	Compatible Operating Systems:	Microsoft Windows	
	There are additional rarely used relationship types that are not defined on this artifact yet. Show them all Non-compliant Relationships There are relationships that are not compliant with the current data model. By using those you risk that certain reports won't work correctly. To handle this, you can: 1. Re-enter those into the system properly while following the current model. 2. Declare this kind of relationship as a shortcut if you want to keep them in the repository as is. Hide them for now		
	Composes:	GetASAC	

Each relationship that you create for an artifact has another paired artifact. Each member of the paired relation is assigned a unique name, representing the outgoing and incoming relation between the artifacts.

To explain better, an outgoing relation between artifacts A and B automatically implies the corresponding incoming relation between B and A. Outgoing relations are properties of source artifact (A), whereas incoming relations are projections of the outgoing relationships with target artifact (B).

You might want to assess the outgoing and incoming relationships listed for a selected artifact, so as to browse through the data and learn the relationship structure of the artifact.

To view the outgoing and incoming relationships of a selected artifact:

- 1. Select the artifact in the Catalog Browser or in the Navigator, and then open the artifact.
- 2. Click the **Relationships** tab. The artifact's relationships are shown, grouped by direction.

ASAC, version 1 Application Component, governed in	Cancelled stage (start at: 8/11/15 2:06 PM)			
Overview	Outgoing			
Documentation				
Cloud Transformation	Relationship 🔺	Artifact	Туре	Version
Financial Profile	T .		T -	
Tree View	Assigned From Provided by	Dedicated Hardware Hosting Mary River	Data Center Person	1.0
Thee view	Provided by	Mary River	Person	
Lifecycle	Provided by	Mary River	Person	
Compliance	Provided by Provided by	Mary River Dave Olson	Person	
	Provided by Provided by	Dave Olson	Person	
Access Rights	Provided by	Dave Olson	Person	
	Provided by	Andy Miller	Person	
Relationships	Provided by	Andy Miller nge Page Size	Person	
Show More	Incoming			
	Relationship	Artifact	Туре	Versio
	Composes	GetASAC	Application Interface	1.0
	Financial Profile	ASAC	Application Component Financial Profile	1
	Survey	Migrate Applications into Cloud - Technical Assessme	Survey	1.0
	Survey	Migrate Applications into Cloud - Business Assessmen	Survey	1.0

Using Relationships Editor

The Overview tab shows all related artifacts of the current artifact under Relationships section. By default, only commonly used relationships are shown. However, you can click *Show them all...* to show all relationships that are Archimate® compliant for the current artifact.

	Lifecycle plan								
Tree View	Track the plans for planned lifecycle trai	nsitions of this artifact. The current lifecycle status and when it was							
	deliverable. The date for the transition is	<i>deliverable.</i> The date for the transition is derived from the plateau/deliverable end date property.							
Lifecycle	Cancelled	Cancelled 08/11/2015 - Baseline							
	08/11/2015 - Baseline								
Compliance	Relationships								
	Realized application services.	Link new, Link existing							
Access Rights	Used Servers/Nodes.	Link new, Link existing							
	Realized by Projects.	Link new, Link existing							
History	Financial Profile:	ASAC							
	Financial Profiles History:	Link new, Link existing							
Show More	Fully Automates:	Link new, Link existing							
	Used Application Architecture:	GetCCM, CRM UI 🚥							
	Used Infrastructure:	Link new, Link existing							
	Application Function:	Link new, Link existing							
	Used by Business Architecture:	Link new, Link existing							
	Deployment Specification:	Link new, Link existing							
	Provided by:	Nicole Smith							
		Joseph Banks Nicole Smith							
		Mary River							
		and 20 more							
	Assigned From:	Dedicated Hardware Hosting							
	Default Server Class:	Class HML							
	Recommended Data Centers:	Amazon AWS							
	Compatible Operating Systems:	Microsoft Windows							
	There are additional rarely used relation Non-compliant Relationshi	iship types that are not defined on this artifact yet. Show them all. ps							
	There are relationships that are not compli	ant with the current data model. By using those you risk that certain n							
	1. Re-enter those into the system properly 2. Declare this kind of relationship as a sho	while following the current model. rtcut if you want to keep them in the repository as is.							
	Hide them for now								
	Composes:	GetASAC							

If you have many related artifacts of a single relationship type, then by default only 4 most recently modified artifacts are visible. To view all related artifacts click the **More...** button that opens related artifacts in table view.

The quantity of related artifacts shown by default (4) can be customized by editing the value of system property platform.ui.relationship.artifact.max. For details, see "How to Manage System Properties" in *Administration Guide*.

Adding an Artifact Relationship

To add relationships to existing artifacts or create new artifacts to relate to:

- 1. Select the artifact in the Catalog Browser or in the Navigator, and then open the artifact.
- 2. There are Link new and Link existing buttons available next to the relationship type that you can use to create a new artifact or link to existing artifacts.

Relationships	
Realized by Projects:	Link new, Link existing
Composed Of:	Link new, Link existing
Fully Automated By:	ASE Instance
Used Application Architecture:	Access Control Service
Realized Business Services:	Link new, Link existing
Used Business Services:	Link new, Link existing
Accessed Business Objects:	Link new, Link existing
Triggered Events:	Link new, Link existing
Composes:	Link new, Link existing
Requirements:	Link new, Link existing
Visualized by Diagrams:	FinPlanner Conceptual Model
Influenced Values:	Link new, Link existing
Provided by:	Link new, Link existing
Composes:	Implement Configure & Active Service 🔤
Aggregated by:	FinPlanner
Aggregates:	Link new, Link existing
Realized By:	Link new, Link existing
Assigned From:	Link new, Link existing
Uses:	Link new, Link existing
Associated with:	Link new, Link existing
Specialized by:	Link new, Link existing
Specializes:	Link new, Link existing
Triggers:	Link new, Link existing

3. When you click the Link new button, the available artifact types will appear in a menu. Only an applicable artifact type is visible when you click the Link new or Link existing buttons. After

establishing a relationship to one or more artifact(s), the menu is replaced with a list of the existing relationships.

For example, when you click Link new in the Triggers relationship type, the menu displays the available artifact types.



4. For artifact types that already contain data, the Link new and Link existing buttons will be hidden from view. You can add more artifacts to this relationship type by clicking on the relationship type name. You will see a separate menu for managing the relationship, which includes the option to view the relationships in a table view:

Relationships			
Realized by Projects:	Link new, Link existing		
Composed Of:	Access Control		
Fully Automated By:	Link new, Link exi	ink new	>
Used Application Architecture:	Link new, Link exi 🛛 🗞 🛛 L	ink existing	>
Realized Business Services:	Link new, Link exi 🏢 T	able view	
Used Business Services:	Link new, Link existing		
Accessed Business Objects:	Link new, Link existing		
Composes:	Service Configuration & Act	ivation …	

5. If you choose to view in Table View, each row has a context menu to open an artifact in the

Catalog or Navigator:

"Implement Configure & Acti	ve Service" Cor	nposed of	×
+ - % - ×			
Name 1	Туре	Version	Stage
Access Control Open in Catalog Open in Navigator	Business Function	1.0	Supported
« < • > » C		D	isplaying 1 - 1 of 1

Note: When you link more than 10 existing artifacts to a relationship, the operation is asynchronous, i.e., the relationship is not updated immediately after the page load, instead the progress is displayed. Once the asynchronous operation is complete, a summary information is displayed.

Otherwise, the operation is synchronous, i.e., the relationship is updated immediately. Both synchronous and asynchronous operations are applicable for deleting artifacts from a relationship.

Removing an Artifact Relationship

To remove existing artifact relationships:

- 1. Select the artifact in the Catalog Browser or in the Navigator, and then open the artifact.
- 2. From the Overview tab, you are able to remove the link between the selected artifact and another artifact. For removing a specific artifact link from a current artifact, right-click on the artifact you want to remove, then remove it by selecting the 'Unlink from this artifact' option.

Relationships Realized by Projects: Link new, Link existing ... Link new, Link existing... Composed Of: Fully Automated By: ASE Instance Access Control Service ---Used Application Architecture: **Realized Business Services:** Open in Catalog Used Business Services: Ø Open in Navigator Accessed Business Objects: X Unlink from this artifact Visualized by Diagrams:

3. You can also remove a set of artifacts linked to a the selected artifact while in the Table view, simply by selecting each artifact you wish to remove from the list.

"FinPlanner" Realizes			×
+ - [∞] - ×			
Name 1	Туре	Version	Stage
Build business proposal	Requirement	1.0	
SinPlanner	Requirement	1.0	
✓ FinPlanner	Proposal	1.0	
			>
《 〈 • — > » C		Dis	splaying 1 - 3 of 3
			Close

Adding and Removing a Shortcut

Shortcut can be created without using the Relationship Editor or Relationships tab of an artifact. Here is how:

Note: Make sure that the canBeEntered attribute is set to *true* in the shortcut definition.

1. Open the Overview page of the source or target artifact in a shortcut.

Planning				
Create a Project for this Prop	oosal			
Associated Plateaus: Implementing Projects:		FinPlanner	+	Link new
Architecture Diagrams:			ø	Link existing
Changes to be Deliv	vered		⊞	Table view
68 Elements total, more				
Internal Effort:	7459			
External Effort: Cost:	3045 1180000			

- 2. There must be at least one shortcut created for this artifact. Click the ¹¹ icon next to the shortcut.
- 3. Select the Link new to create a shortcut to a new artifact.
- 4. Select **Link existing** to create a shortcut to an existing artifact.

Note: When opening the source artifact of a shortcut, Link new/Link existing creates a shortcut to the target artifact and vice versa.

Similar to removing an artifact relationship; to remove a shortcut:

- Right-click the target artifact and select Unlink from this artifact
- Alternatively, from relationship table view of shortcut relationship, select target artifact(s) and click



Note:

- Calculated shortcuts based on relationships with other artifacts cannot be removed.
- Shortcuts created by Shortcuts Consolidation Task cannot be removed. These shortcuts have at least one path which is resolved from shortcut definitions (declared in EM based on Archimate® specification).

Non-Compliant Relationships

HPE EM enables you to create non-compliant relationships (relationships between artifacts that are not as per Archimate® standards). For example: to have a Business Actor "use" an Application Component.

Non-compliant relationships can be created using Relationships tab only, and is displayed in red color, in Relationship Editor as follows:

Non-compliant Relationships

There are relationships that are not compliant with the current data model. By using those you risk that certain r

1. Re-enter those into the system properly while following the current model. 2. Declare this kind of relationship as a shortcut if you want to keep them in the repository as is.

Hide them for now...

Composes:

GetASAC ---

Note: HPE recommends using compliant relationships over non-compliant ones as they can be synchronized with Sparx EA without requiring modification.

Chapter 3: Navigator

The Navigator tab graphically represents the content of a catalog. The objective is to bring about and showcase the structure and dependencies of the Archimate® concepts in the Catalog, rather than simply focusing on a single artifact.

Navigator primarily provides for an alternative view, equipped with the capability to explore, browse, and traverse across the Catalog content along a pictorial view.



The main features of the Graphical Navigator are:

Catalog Browsing

Allows you to browse the content of the Catalog in an easy and quick manner.

Layouts

Enables you to view artifact graphs by selecting different layouts. You can organize the artifacts into various structures to view a particular aspect of their relationship. There is also the option to create customized layouts if you wish to focus on specific relationship structures.

Filters

Provides a set of filters focusing on artifacts of interest to each architectural layer, as well as the option to create custom filters.

• Save Graphs

Allows you to save a particular graph with the selected layout, which means you can return to the saved graph at a later time. The graph is interactive and lets you move or expand it, or collapse nodes to change the appearance.

• Impact Highlights

Enables you to view the impact of change to an artifact (impact analysis).

Screenshots

Enables you to create an image file copy of the graph layouts.

Chapter 4: Reports

HPE EM provides many reports that you can run based on the artifacts in your enterprise architecture data model. On the Reports tab, you can access many artifact, policy, heatmap, structure map, and custom reports. You can also view Architecture reports such as Archimate Compliance and Installed Software as well as Transformation reports such as Roadmaps, Investments, Project by Cost, and Applications by Cost. Maintenance reports such as Application Costs are also available, and you can also customize the reports that appear on your dashboard.

The report type that you choose depends on the results, data format, and granularity that you require. The following are the report types to choose from:

- "Report Dashboard" below
- "Artifact Reports" on page 53
- "Policy Reports" on page 56
- "Heat Map Reports" on page 60
- "Structure Map Reports" on page 60
- "Custom BIRT Reports" on page 61
- "Project Roadmap Reports" on page 62
- "Lifecycle Plan Roadmap Report" on page 63
- "Cloud Transformation Reports" on page 64

Reports are customizable. Administrators can therefore create and deploy new reports without having to restart Enterprise Maps. For more details, see "Report Creation" in *Customization Guide* or contact HPE sales representative for assistance.

Report Dashboard

Report dashboard is a collection of reports created for a purpose. For example: Governance Dashboard gives you an overview of the compliance level percentage as a result of the Enterprise Maps policy reports.

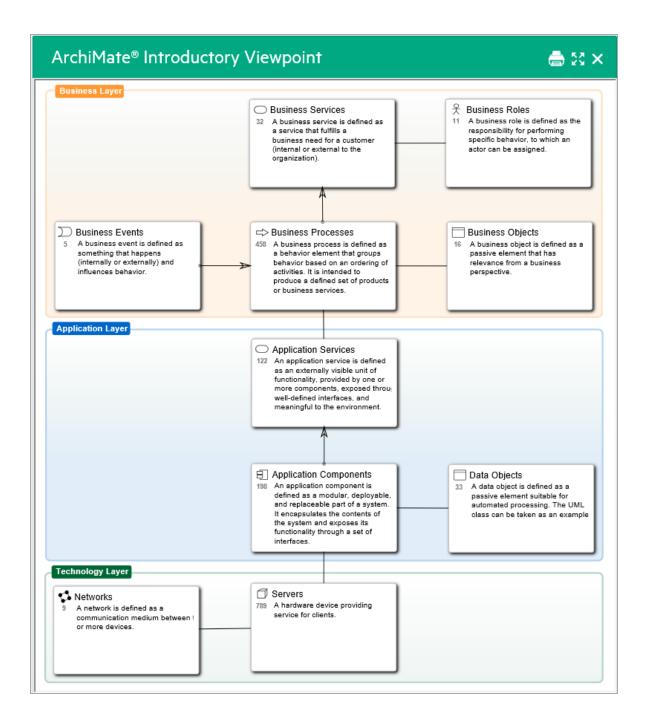
Report dashboard can be customized by the users as per their requirement, or can be reset back to the default installation. Users can also create new report dashboards for their own use.

- "Archimate Introductory Viewpoint " below
- "Policy Radar Report" on the next page
- "Adding a Portlet to Your Dashboard " on page 51
- "Printing Portlet Content" on page 52

Archimate Introductory Viewpoint

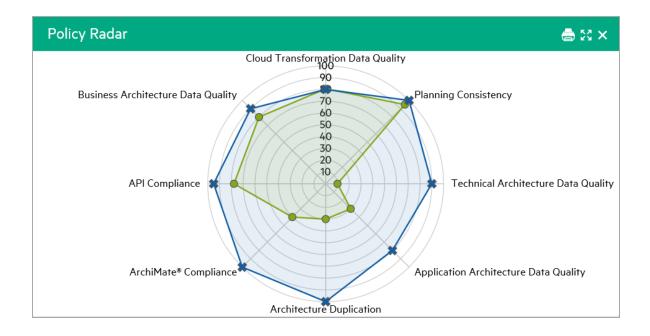
The HPE EM data model is based on Archimate® modeling language specification and similar to that it consists of artifacts grouped on the basis of type of artifacts belonging to different layers, and also artifact properties and relationships.

The Archimate® Introductory Viewpoint displays common artifact types and their relationships in 3 basic layers. This viewpoint supports the impact analysis of its artifacts.



Policy Radar Report

HPE EM policy radar reporting is a web UI portlet that displays a radar chart showing the difference between the policy report's actual and target compliance. By default, the policy radar displays all policy reports available HPE EM. The layout and contents of the radar can be customized using a managed server-side script.



Adding a Portlet to Your Dashboard

To add a Portlet to your dashboard:

- 1. In the Reports page right-click to open the Dashboard menu as shown in the image below.
- 2. Select the portlet to add to your dashboard.

All Reports ∽	Architecture \sim	Clou	d Assessment \sim	Transfo	ormation ~	Fina	ancial ∽ Gove	ernai
iMate® Introd	uctory Viewpoi	nt	Dashboard				🖨 23 >	×
ness Layer		⊃ Bus	Add Widget	>	By Category	>	Architecture	>
	3	ase busi	Store as Default La	yout	Ву Туре	>	Transformation	>
		(int∈ orga	Reset to Default La	yout	actor ca	n de	Finance	>
	_	_	Lock Dashboard			-	Maintenance	>

Printing Portlet Content

HPE EM provides the option to print dashboard portlet contents from the Reports tab. This is useful as you can convert the report to PDF for instance.

As of now, this option is available for Viewpoint Model, Artifact Statistic and Policy Radar on the Reports home page. Other reports that can be printed are Structure map Reports, Heatmap Reports, Data Matrix Reports and Rating Reports under drop-down for different sub-menu options.

To print, the instructions are as follows:

- 1. Select the report you wish to print.
- 2. Click the print icon to preview and print the report.

REPORTS	NAVIGATO		STRATION
sessment \checkmark	Transformation \	✓ Financial ✓	Governa
			🚔 🖾 🗙
		Pri	nt
Services service is defined as at fulfills a	11 A	siness Roles business role is Sav sponsibility for	ve as PNG

- 3. For each browser the print instruction may differ, follow the steps and then click OK.
- 4. Select **Shrink To Fit** on Print dialog or Printing Preferences to print the entire portlet content on a single page.

Note: For print preview in IE, click **Internet Options > Security > Custom level**. Scroll down for the option **Initialize and script ActiveX controls not marked as safe for scripting** and select **Prompt**. Restart your machine and click the print icon to see the print preview.

For Chrome the print preview shows automatically upon clicking the print icon. Firefox does not support print preview.

- 5. For good print results, set the following in your browser Page Setup or Preview page:
 - a. Mode: Landscape
 - b. Paper size: A3 or larger
 - c. Background graphics / Print Background (colors & images): must be selected

Artifact Reports

HPE EM artifact reports provide table views of the artifact data contained in the HPE EM repository. The report is designed and used directly in the HPE EM web UI. The artifact table represents the result of a DQL query that is part of the report definition. Artifact reports are re-calculated every time the user accesses the report's web UI page.

Project Used to rev	S iew projects, their status, and their	content.										
Health	Name 🔺	Manager	Planned Start	Planned Fini	Lifecycle Sta	Comple	NPV	ROI	Discount R	Budget	Planned Co	Actual Cost
T -			T -	T -	T -							
•	A/R Billing Upgrade	Joseph Banks	March 2015	July 2016	Kick-off	0 %	\$ 3,282,000	3,282,000	10 %	\$0	\$ 1,121,000	\$ 1,213,000
•	ACME Company Intranet	Bev Bailey	July 2014	March 2016	Implementati	0 %	\$ -1,000,000	-1,000,000		\$0	\$ 1,000,000	\$ C
•	ACME Intranet	Bev Bailey	July 2014	March 2016	Kick-off	0 %	\$ -760	-760	10 %	\$0	\$ 35,000	\$ 759
•	AP Web Interface	Joseph Banks	October 2015	December 2016	Kick-off	0 %	\$0	0	10 %	\$0	\$0	\$ C
•	APO - Pilot	Joseph Banks	March 2015	May 2016	Kick-off	0 %	\$ 1,099,536	1,099,536	10 %	\$0	\$ 463,747	\$ 53,516
•	APO Infrastructure	Joseph Banks	October 2014	March 2015	Kick-off	0 %	\$ -15,950	-15,950	10 %	\$0	\$0	\$ 15,949

Make any modifications that you want. Column headers contain text fields or list boxes that allow you to perform additional filtering. A column's context menu appears when you click the right side of the column header. The menu lets you choose the sort order or make columns visible or invisible. The columns can be re-sized by moving the line between them. You can also reorder the columns by dragging them.

Viewing Artifact Reports

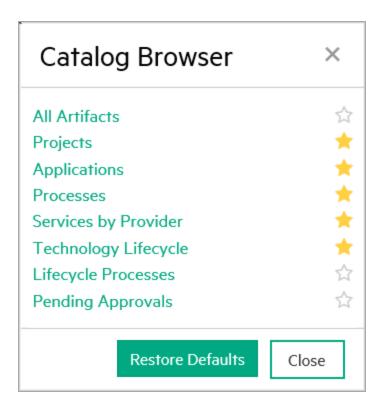
To view artifact reports:

- 1. Log in to HPE EM and select the Reports tab.
- 2. Select the All Reports > Artifact Reports menu, which shows any favorite reports as well as a

Show More link.

Ente	rprise Maps		CATALOG REPORTS					
â	All Reports ~ Architec	ture	 Cloud Assessment 	~				
Archil	Create	>	/point					
Business	Artifact Reports	>	Projects					
	Policy Reports	>	Applications	i				
	Custom BIRT Reports	>	Processes					
	Heat Map Reports	>	Services by Provider	-				
D Busi 5 A bu some (inter	Structure Map Reports	>	Technology Lifecycle	Ē				
influe	Matrix Reports	>	Show More					

3. Click Show More to open the catalog browser. The catalog browser lists all reports and also allows you to pin or unpin a particular report as a favorite onto the Artifact Reports menu.



4. Click Projects to view the artifact report called Projects, which is used to review projects and their status and content data. The Projects report is a table with columns that were defined by associated DQL queries as depicted in previous topic.

	5											
Health	Name 🔺	Manager	Planned Start	Planned Finish	Lifecycle Stage	Compl	NPV	ROI	Discou	Bud	Planned C	Actual Cost
T -			T -	τ-	T -							
•	A/R Billing Upgrade	Joseph Banks	March 2015	July 2016	Kick-off	0 %	\$ 3,282,000	3,282,000	10 %	\$ O	\$ 1,121,000	\$ 1,213,00
•	ab - test	Joseph Banks	March 2015	May 2016	Kick-off	0 %	\$ 1,121,009	1,121,009	10 %	\$ 0	\$ 465,219	\$ 53,51
•	ACME Company Intranet	Bev Bailey	July 2014	March 2016	Implementation	0 %	\$ -1,000,000	-1,000,000		\$0	\$ 1,000,000	\$
•	ACME Intranet	Bev Bailey	July 2014	March 2016	Kick-off	0 %	\$ -760	-760	10 %	\$ O	\$ 35,000	\$ 75
•	AP Web Interface	Joseph Banks	October 2015	December 2016	Kick-off	0 %	\$0	0	10 %	\$ 0	\$ O	\$
•	APO - Pilot	Joseph Banks	March 2015	May 2016	Kick-off	0 %	\$ 1,099,536	1,099,536	10 %	\$0	\$ 463,747	\$ 53,5
•	APO Infrastructure	Joseph Banks	October 2014	March 2015	Kick-off	0%	\$ -15,950	-15,950	10 %	\$ O	\$ O	\$ 15,94

5. Make any modifications that you want. Column headers contain text fields or list boxes that allow you to perform additional filtering. A column's context menu appears when you click the right side of the column header. The menu lets you choose the sort order or make columns visible or invisible. The columns can be resized by moving the line between them. You can also reorder the columns by dragging them.

Policy Reports

HPE EM policy reports are used to report the levels of policy compliance of the artifacts in HPE EM repository. The report is designed and used directly in the HPE EM web UI. You can select the policies to validate as well as the filter that specifies what artifacts and data to include in the validation directly in the web UI when you define the report. The report's results are cached in the HPE EM repository. Users always view results from the most recent calculation of the report.

ArchiMate® Cor Policy Report	npliance				Located in Top-level Don no votes $\star\star\star\star$
Overview	✓ × C				
Definition	ArchiMate Compliance				
	Report Properties				
Results	Actual Compliance:	96.52 %			
	Target Compliance:	100 %			
	Overall Compliance	Top five artifacts with the worst compliance			
		Artifact	Compliance 🔺	Owner	Domain
		SetClient	33 %	🚨 Andy Miller	Demo Example Domain
	N N	CreateStoreOrder	33 %	🛔 Dave Olson	Demo Example Domain
		GetCentralCustomer	33 %	🛔 Joseph Banks	Demo Example Domain
		e web pages	33 %	Andy Miller	Demo Example Domain
	 Compliant (97%) Non-compliant (3%) 	9.0 Acquire, Construct, and Manage Property (10010)	33 %	Nicole Smith	Demo Example Domain
		View results for all 3,783 artifact(s).			

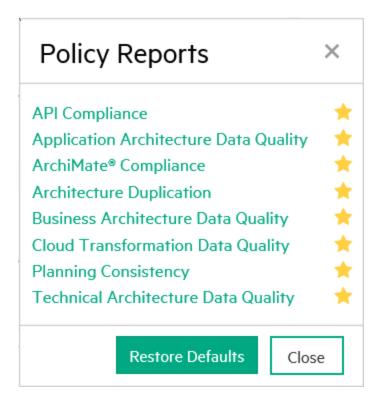
Viewing Policy Reports

To view policy reports:

- 1. Log in to HPE EM and select the Reports tab.
- Select the All Reports > Policy Reports menu, which shows any favorite reports as well as a Show More link.

All Reports ∽ Architec	ture	✓ Cloud Assessment ✓ Transform
Create	>	point
Artifact Reports	>	
Policy Reports	>	API Compliance
Custom BIRT Reports	>	Application Architecture Data Quality
Heat Map Reports	>	ArchiMate® Compliance
Structure Map Reports	>	Architecture Duplication
Matrix Reports	>	Business Architecture Data Quality
Model View Reports	>	Cloud Transformation Data Quality
Other	>	Planning Consistency
	n N	Technical Architecture Data Quality
		Show More

3. Click **Show More** to open the catalog browser. The catalog browser lists all reports and also allows you to pin or unpin a particular report as a favorite onto the Policy Reports menu.



4. Select Archimate Compliance to view the policy report called Archimate Compliance.

Archimate Compliance Report Structure

The Archimate Compliance policy report consists of three sub-reports:

• **Overview**: shows the percentage of compliant and non-compliant artifacts in a pie chart as well as a list of the top 5 artifacts with the worst compliance level. It is accessible when you click the Overview on the left side of the report page.

ArchiMate® Cor Policy Report	mpliance				Located in Top-level Don no votes $\star\star\star\star$
Overview	✓ × C				
Definition	ArchiMate Compliance				
	Report Properties				
Results	Actual Compliance:	96.52 %			
	Target Compliance:	100 %			
	Overall Compliance	Top five artifacts with the worst compliance			
		Artifact	Compliance 🔺	Owner	Domain
		SetClient	33 %	🚨 Andy Miller	Demo Example Domain
		CreateStoreOrder	33 %	🛔 Dave Olson	Demo Example Domain
		GetCentralCustomer	33 %	🛔 Joseph Banks	Demo Example Domain
		web pages	33 %	Andy Miller	Demo Example Domain
	 Compliant (97%) Non-compliant (3%) 	9.0 Acquire, Construct, and Manage Property (10010)	33 %	Nicole Smith	Demo Example Domain
		View results for all 3,783 artifact(s).			

Results: shows an index table with columns containing clickable artifact names, artifact types, compliance status (Compliant/Non-Compliant), artifact compliance (0 – 100 percent), number of problems found, and a link to details about policy calculations. It is accessible when you click the Results tab on the left side of the report page.

ArchiMate® Comp Policy Report	liance						Located in Top-level Do no votes 🔶 🚖 🚖
Overview	✓ × C						
Definition	B						
	Artifact	Туре	Status	Complianc	Problems	Owner	Domain
Results							
	■ 8.10 Manage international funds/cons	Business Process	Non-compliant	33 %	2	Service Providers	Demo Example Domain
	9.0 Acquire, Construct, and Manage Pr.	Business Process	Non-compliant	33 %	2	Nicole Smith	Demo Example Domain
	8.0 Manage Financial Resources (1000)	Business Process	Non-compliant	33 %	2	Nicole Smith	Demo Example Domain
	UpdateLOIP	Application Interface	Non-compliant	33 %	2	Nicole Smith	Demo Example Domain

• Artifact Results: shows a table with policy calculation details by artifact. Each row of the table represents a technical policy included in the report definition. It contains a clickable name, compliance status, and the number of errors and warnings. It is accessible when you click on the View Report link in any Results row or the Overview sub-report.

	/ × C 🖂										
Definition											
	Artifact	Туре	Status	Compliance 🔺	Problems	Owner	Domain				
Results	advisory										
	Advisory	Application Function	Non-compliant	66 %	1	A Nicole Smith	Demo Example Domain				
	Drill down for details	Business Process	Compliant	100 %	0	Service Providers	Demo Example Domain				
	See artifact compliance in other reports	Business Function	Compliant	100 %	0	🚨 Andy Miller	Demo Example Domain				
	View artifact in catalog	Requirement	Compliant	100 %	0	Lave Olson	Demo Example Domain				
	Advisory Results Display Services	Business Service	Compliant	100 %	0	👗 Nicole Smith	Demo Example Domain				
	Advisory Results Report Services	Business Service	Compliant	100 %	0	👗 Nicole Smith	Demo Example Domain				
	SMB Advisory Engine	Business Process	Compliant	100 %	0	Service Providers	Demo Example Domain				
	Advisory Service	Application Service	Compliant	100 %	0	A Nicole Smith	Demo Example Domain				

ArchiMate® Compli				Located in Top-level Doma no votes 🍵 🚖 🚖 🕯
	I Show All Results			
	Advisory			Show: Policies OAnnotated Sources
Results	Policy A	Status	Errors	Warnings
	Artifact Relationships Should Be ArchiMate Compliant	Non-Compliant	1	0
	Integrity Constraints	✓ Compliant	0	0

Non compliant artifacts have a plus (+) symbol. Click to expand and see full textual description of all errors and warnings.

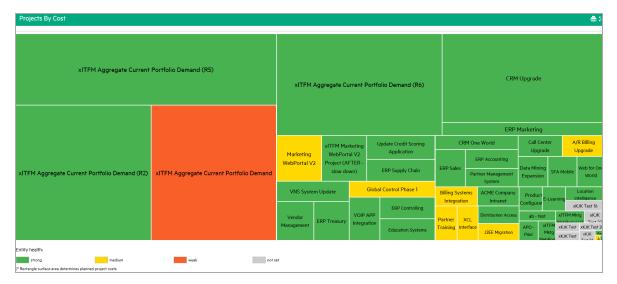
F	Policy 🔺	Status	Errors	Warnings
4	Artifact Relationships Should Be ArchiMate Compliant	⊘ Non-Compliant	1	0
Θ	ArchiMate Compliance Validator ArchiMate Non-compliant Relationships: realizedBy: (applicationComponentArtifact: FinPlanner Application) ArchiMate Non-compliant Relationships: realizedBy: (applicationComponentArtifact: FinPlanner Application)			
- 1	ntegrity Constraints	🗸 Compliant	0	0

Heat Map Reports

You can use the HPE EM heatmap portlet to create graphs of your data where individual values contained in a matrix are represented as colors. Planned cost is shown by the relative size of the rectangular areas and project health is shown by the color shading of the rectangles. Heatmap reports are updated immediately when there is a change in the data reported. HPE EM provides three Heatmap reports out of the box:

- Applications by Cost report -- shows the Annual Cost Total(s) of selected projects.
- Projects by Cost report -- shows Planned Cost of selected projects (shown).
- Installed Software report -- shows Lifecycle Stage of selected System Softwares.

A Heat Map is defined in the web UI using a managed server-side script that specifies how the data and its two dimensions (that is, planned cost and project health) are calculated and visualized. The Heat Map is also shown directly in the web UI, either as a portlet (an area of the HPE EM home page) or as a standalone report. Heat Map reports are recalculated every time the user accesses the report's web UI page.

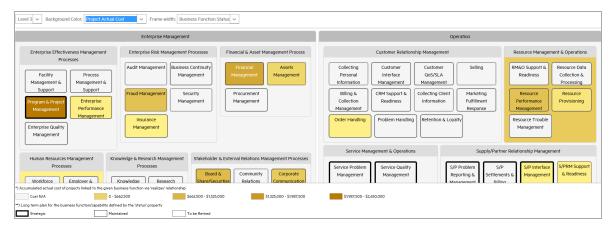


Structure Map Reports

As an HPE EM administrator, you can use HPE EM to create a structure map of artifacts by business function, which allows you to view the relationships between artifacts and the status of each artifact. Users can group artifacts by defining DQL queries and colors, and can modify the way that artifacts are displayed by using a color renderer and legend renderer.

Another way to characterize structure map reporting is as a boxed visualization of a data tree structure. You can use a structure map to model business capabilities, but the visualization itself is not restricted to business capabilities. Each rectangular area contains boxes that can be nested several levels. Boxes can be decorated to show dimensions of input data by using background colors or border lines of varying widths. Unlike the heap map report, the area size of a box is calculated to fit. Several levels of boxes are shown at the same time.

For example, an out-of-box Capabilities to project mapping structure map report shows business functions as nested boxes. The box's background color represents the cost of the projects allocated to a business function. The box's bold frame indicates that the function is going to retire.



A structure map is defined in the web UI using a managed server-side script that specifies how the data and its dimensions are calculated and visualized. The structure map is shown directly in the web UI, either as a portlet (an area of the HPE EM home page) or as a standalone report. Structure map reports are recalculated every time the user accesses the report's web UI page.

Custom BIRT Reports

You can use the HPE EM Workbench to design custom reports. The reports are defined and executed using Eclipse's BIRT, which is a very powerful reporting system that includes the reporting features such as report layout, data access, and scripting. For more information, see http://www.eclipse.org/birt/ where you can find details about the technology used and a few report examples.

BIRT report definitions can be deployed and used in HPE EM. The BIRT execution engine is part of HPE EM and the report definitions are executed to create a custom report. Custom reports are cached in HPE EM and you can access them directly in the HPE EM web UI. Unlike other reports, custom reports are provided as standalone documents (PDF or HTML) that can be easily downloaded from HPE EM.

Project Roadmap Reports

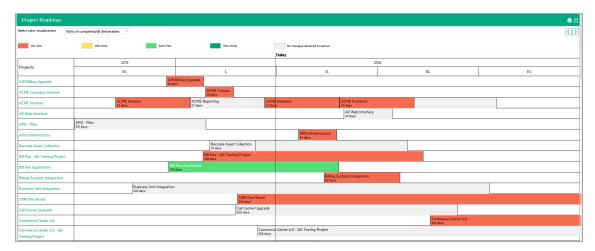
HPE EM Roadmap reports provide quarter wise view of the projects and their deliverables over a period of one year. The report gives a quick snapshot of the project status; the project links help navigate to the project/deliverable page directly. The number of days along below the deliverable on the report represents the time it took for the deliverable to get completed.

Hover over the deliverable box to see the following :

- Start Date and End date based on which the number of days are calculated and displayed with the artifact.
- Number of prerequisites required by the deliverables.
- Number of delivered architecture changes for the deliverable.

Select any of the following options from the **Select color visualization** drop down to change the visualization of the deliverables:

- Ratio of completed/all deliverables: displays percentage of completed architecture changes.
- Ratio of completed/all prerequisites: displays percentage of completed prerequisite architecture changes.
- Project health: displays overall health of the project associated with the deliverable.



Lifecycle Plan Roadmap Report

HPE EM Lifecycle Plan Roadmap reports provide quarterly wise view of the architecture changes over a period of one year. These reports are built on top of the respective lifecycle plan changes to give a quick snapshot of planned or ongoing changes.

The lifecycle plan for each change is visualized by individual stages on the report. The stages show the number of days it took for the changes to get done (this number is not available on the last stage). Hover over a stage to see more information, such as the plateau where the stage is planned, and start and end dates of the stage.

Lifecycle Plan Roadmap report for System Software is available by default in EM. This report is designed in such a way that it can be used to build similar roadmap reports for other artifact types such as Application Component etc.

Enterprise Maps CATALOG	REPORTS	NAVIGATOR ADMI	NISTRATION						Q Search	Show data In: All Non-Reference ¬	Administrat
All Reports Y Architecture Y Cloud A	ssessment ~	Transformation ~ Financia	l ∽ Governance `	,						5	Recent Document
System Software Hosting Roadmap		Project Roadmap									e ::>
Select color visualization: Target Stage		System Software Hosting Re	badmap	Highlighted	Stage(s): All	~					< 0 >
Candidate Production		Capabilities to Applications	Mapping 📒 Unsupp	orted	Denied						
Approved Stage		Installed Software Map			Today						
System Software		2015					2016				
System Software +		IV		1		н		ш		IV	
Apache Tomcat, version 5.5.20	Candidate 77 days	Produc	tion								
Apache Tomcat, version 6.0.18	Candidate 77 days	Produc	tion								
Apache WebServer, version 10.1.2.0.2	Candidate 77 days	Produc	tion								
BeOS, version 1.0		Deprecated 78 days		Unsupported 42 days	Denied						
FileZilla FTP Server, version 1.0	Candidate 77 days	Produc	lion								
Fujitsu Towns OS, version 1.0		Deprecated 78 days		Unsupported 42 days	Denied						
HP-UX 11i V3, version 1.0		Deprecated 78 days		Unsupported 42 days	Denied						
HP-UX 11i V3, version 1.0		Deprecated 78 days		Unsupported 42 days	Denied						
IBM DB2, version 9.5	Denied										
BM DB2, version 9.1.400.359	Denied										
BM OS/2, version 1.0	Denied										
BM z/OS, version 1.0	Denied										
JBoss 7, version 1.0	Candidate 77 days	Produc	tion								
JBoss AS, version 1.0	Candidate 77 days	Produc	tion								
Jetty WebServer, version 1.0	Candidate 77 days	Produc	tion								
	Unrupported										

Cloud Transformation Reports

Cloud Transformation provides the following reports:

- "Cloud Transformation Status" on the next page
- "Cloud Transformation Map" on page 66
- "Cloud Transformation Data Quality" on page 67

Cloud Transformation Status

This report provides an overview of cloud assessment based on the scores.

Assessment Fina	ancial Tech	hnical							
Application Name	Version	Owner	Business Score	Financial Score	Technical Score	Overall Score	Recommendation	Current Hardware C	Transfomation Strates
Agresso	3.1	& Nicole Smith	54	82	54	63	Private Cloud	Est. \$357,794	Transform
Analyst Research	0.2	& Nicole Smith	41	62	73	59	Private Cloud	\$95,000	N/A
ASAC	1	🛔 Joseph Banks	83	N/A	25	36	Re-architect	\$569,127	Automated
ASCENT	1	Administrator	38	76	23	46	Re-architect	\$289,260	Transform
ASCENT DB	1.0	Administrator	N/A	N/A	N/A	o	N/A	N/A	Transform
ASCENT Web	1.0	Administrator	N/A	N/A	N/A	o	N/A	N/A	Transform
ASE Instance	1	Administrator	84	88	80	84	Public Cloud	\$151,123	Ignored
BE1	1	Ary River	15	N/A	30	15	Re-architect	\$1,250,000	Analyze
BE2	1	Amary River	35	N/A	48	27	Private Cloud	Est. \$359,047	N/A
BE3	1	Ary River	50	N/A	61	37	Private Cloud	Est. \$108,600	Ignored
BE4	1	Amary River	41	N/A	68	36	Private Cloud	Est. \$144,373	Analyze
Billing Services	5.2	🛓 Joseph Banks	50	20	23	31	Re-architect	\$170,000	Automated
Brand Identity	6.2	Amary River	44	23	56	41	Private Cloud	Est. \$36,875	Postpone
BrandMart	9.1	Lave Olson	57	29	42	42	Private Cloud	Est. \$322,316	Automated
Business Availability Monitori	ing 1	Administrator	45	90	55	63	Private Cloud	Est. \$197,019	Analyze

In this report:

Minimum Estimated Hardware Cost

The lowest cost amongst those offered by data centers. For a specific deployment, the cost is calculated on Total estimate for all deployments (infrastructure services) of the application component. If there is no cost for this estimate type (for example: when the application component has no associated deployment or the deployment has no specified server class), the estimated cost from the number of servers property and server class relationship is used. For more details, see "How cost estimation works" on page 83.

The calculation algorithm is the same as in Financial Alignment of the application component in the Cloud Transformation tab .

Current Hardware Cost Estimate

Sum of the costs of deployment for all deployments (infrastructure services) into the current data center. Again if no infrastructure services are available, estimate from number of servers property and server class is used. For more details, see "How cost estimation works" on page 83.

Current Hardware Cost

Annual Hardware Cost from current financial profile. If not available, this column displays Current Hardware Cost Estimate (prefixed with 'Est.').

Savings Opportunity

The amount an organization saves by running the application on the lowest cost data center on an annual basis.

Calculated as follows:

Savings Opportunity = Current Hardware Cost - Minimum Estimated Hardware Cost

If the savings opportunity is negative, this column displays \$0 instead.

• ROI (5 years)

Ratio of cost saved over transformation cost invested for a period of 5 years. A result of 100% or above indicates a worthy investment while less than 100% indicates unworthy investment.

Calculated as follows:

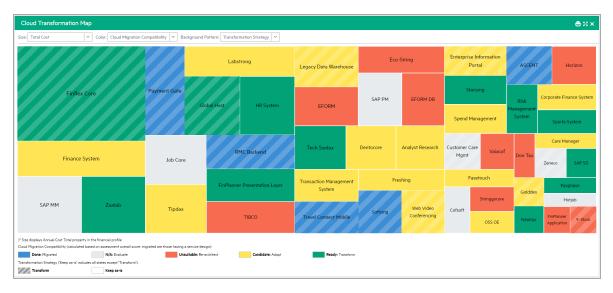
ROI (5 years) = 100 * [(5*Savings Opportunity) - Transformation Cost] / Transformation Cost

Transformation Strategy

Transformational strategies associated with the applications as a result of cloud assessment. Changing a value in this column, also changes the property's value in the application component.

Cloud Transformation Map

This report visualizes applications suitable for cloud transformation in heat map style.



Cloud Transformation Data Quality

This report provides the level of data quality as policy compliance.

Overview					
Definition	Measures quality of data require	ed for the Cloud Transformation process.			
	Report Properties				
Results	Actual Compliance:	80.541 %			
	Target Compliance:	80 %			
	Overall Compliance	Top five artifacts with the worst compliance			
		Artifact	Compliance 🔺	Owner	Domain
		A_AC3	22 %	Administrator	Default Dom
		Airzap	22 %	Administrator	Default Dom
		A_AC5	22 %	Administrator	Default Dom
		▲ A.ACS ▲ A.AC1	22 % 22 %	Administrator Administrator	Default Dom Default Dom

Chapter 5: Enterprise Architecture

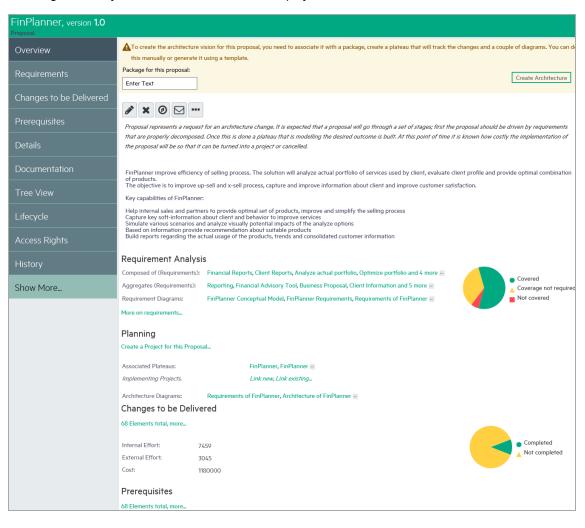
In HPE EM you can create an architecture from a proposal which enables you to not only manage the demands of the users but at the same time be able to exercise better control over the project's progress.

Proposal

Proposal is created as an integral part of architecture management to capture and cover the organizational demands of the users more effectively. In doing so, proposal offers a comprehensive solution which clearly defines the project, and provides a definite and logical course of action with a clear structure. This comprises of work breakdown structure involving: initiating plans, setting milestones and executing projects. Proposal is split across requirements for better manageability. The proposal architecture can be created manually or auto generated through a defined template.

The proposal architecture essentially consists of the following elements:

- Package: created to deliver clear business value, linked to the proposal representing a program, project, milestone or task. This package can be auto generated with links to diagrams and plateaus.
- Diagrams: created to describe the proposal architecture state, modeled as diagrams showing the baseline and to-be architectures.
- Plateaus: created to show the aggregate of elements marked with financial data expressing cost and effort. The elements of plateau are mapped to the requirements so the information of how a requirement is fulfilled is traceable in the architecture. It includes *Changes to be Delivered* which



are the goals or objectives in terms of the task or project.

Once the architecture is created user can build upon it further by adding *Target Architecture Changes* (in case of plateau), and *Delivered Architecture Changes* (in case of deliverable). Alternatively, the changes can be modeled in Sparx EA in the following manner:

- 1. Import data from HPE EM
- 2. Model the target architecture in Sparx EA
- 3. Export data back to HPE EM

Overview	Delivered Architectur	e Changes										
Requirements	Here you can see a list of architec architecture change you need to c				l by this proposal. Each	change is declared i	within a plateau v	which represents a	stable state of .	the enterprise arch	hitecture. To alter	the costs of the
Changes to be Delivered											Se	arch 🛞 Q
-	Name	Туре↓	Versio	Owner	Plateau	Last Approved	Target Stage	Internal Effort	Ext. Effort	Cost	Compliance	Completion Status
Prerequisites	SQL Server Database	Infrastructure S	N/A	And	FinPlanner	Not assigned		10				Not completed
Details	Application server	Infrastructure S	N/A	Nico	FinPlanner	Not assigned		50		100000		Not completed
Derdiis	FinPlanner Data	Data Object	1.0	Jose	FinPlanner	Not assigned		10				Not completed
Documentation	Product	Data Object	1.0	Dav	E FinPlanner	Not assigned						Not completed
	Contract	Data Object	1.0	Jose	FinPlanner	Not assigned						Not completed
Tree View	Contract Request	Data Object	1.0	Jose	FinPlanner	Not assigned						Not completed
	Create request for contact	Business Service	1.0	Dav	E FinPlanner	Candidate						 Not completed
Lifecycle	Goal Acceleration	Business Service	1.0	Jose	FinPlanner	Candidate	Production					Not completed
	FinPlanner from Internet	Business Service	1.0	Jose	FinPlanner	Candidate	Production		30			Not completed
Access Rights	Financial Review Service	Business Service	1.0	Jose	FinPlanner	Candidate	Production	10				 Not completed

From proposal high level managers get an overall view on the following aspects:

- Requirement structure and other elements of the proposal on a single page.
- Project health of the proposal by reviewing the completion status.
- Planned architecture devised by other proposals or projects.
- Architecture changes to be delivered.
- Compliance status of architecture changes based on policies.
- Total cost, efforts of architecture changes and their details.

In HPE EM, the to-be architecture can be created and monitored automatically using HPE best practices. For details, refer to following topics:

- "Creating Proposal" on the next page
- "Creating Project from Proposal" on page 74
- "Setting Target Architecture" on page 75
- "Setting Efforts of Architecture Changes" on page 77
- "Monitoring Architecture Changes" on page 77

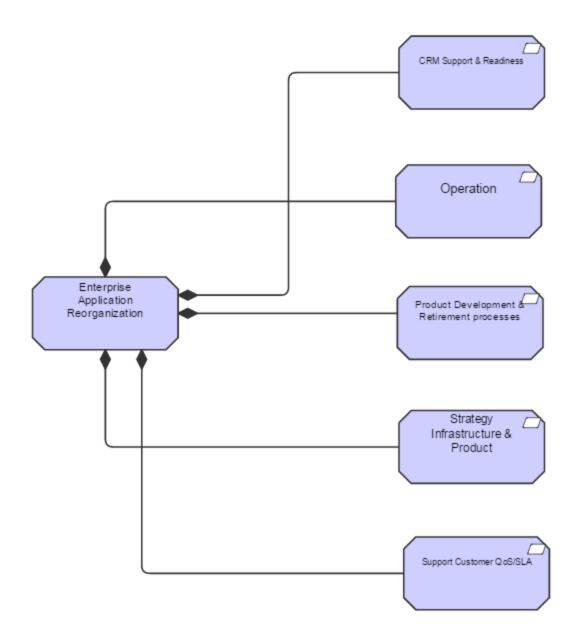
Creating Proposal

An enterprise architect helps build an architecture vision in the following manner:

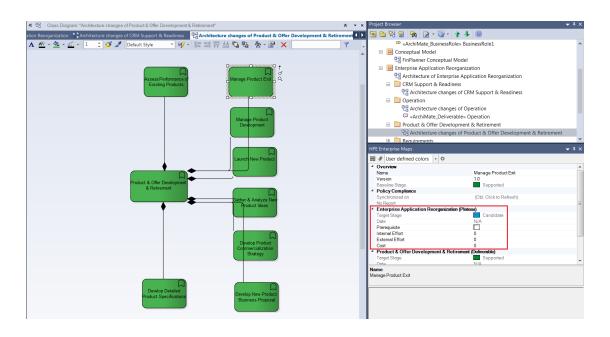
- 1. Generates a basic proposal document structure, which includes a requirement structure diagram, and a solution plateau together with a diagram that is visualizing the plateau.
 - HP EM Shared Repository
 - Application Layer
 - Business Layer
 - Content
 - Enterprise Applications
 - 🖫 Architecture of Enterprise Application Reorganization
 - 2 Architecture of Enterprise Applications
 - Architecture changes of Product & Offer Development & Retirement Architecture changes of Product & Offer Development & Retirement
 - CRM Support & Readiness
 CRM Support & Readiness
 CRM Support & Readiness
 - Operation
 Compared and the second secon
 - 🖫 Requirements of Enterprise Application Reorganization
 - Strategy Infrastructure & Product
 The Strategy Infrastructure & Product
 - RechiMate_Deliverable» Architecture changes of Enterprise Applications
 - ArchiMate_Requirement» Enterprise Application Reorganization
 - 🚅 «ArchiMate_Plateau» Enterprise Application Reorganization
 - s int ranta
- You can start by defining a package that is used as a container for data related to the proposal. The package is also represented as a package folder in the Extension for Sparx Systems EA later on.

To create the architecture vision for this proposal, you need to associate it with a package, create a plateau that will track the changes and a couple of diagrams. You can do this manually or generate it using a template.
Package for this proposal: finplanner.v2 × Create Architecture
P

 Once the proposal has the structure defined, the architect or the proposal owner is using the "Extension for Sparx Systems EA" on page 144 to decompose the requirements. You can see that the aggregation/composition relationship is used for the decomposition.



4. Then, the architect defines the solution plateau using the **Extension for Sparx Systems EA**. While doing so you can assign the values for the estimates on the effort needed to build the solution.



The architect links the solution components to the requirements created in step 3 above. Once this
is done it is possible to monitor the requirement coverage on the **Requirements** tab of the
proposal.

FinPlanner, version 1.0 Proposal					
Overview	Requirement Coverage				
	Name	Requires Coverage	Covered by	Description	Status
Requirements	Simulation	No			🔺 Not Required
	Define parameters	Yes	🖵 FinPlanner - Frontend		Covered
Changes to be Delivered	Simulation processing	Yes	💭 FinPlanner - Frontend		Covered
	Business Administration	No			🔺 Not Required

6. In HPE EM, for each element in the plateau (on plateau catalog page) it is possible to assign a lifecycle stage that is reached when the proposal is implemented. For example: if the element is about to be removed, the target is shown as the **retired** lifecycle stage. But if the target is a new element, it will probably be shown as the **production** stage.

								ch 💿 🔍 💈
Name	Туре	Last Approved Stage	Target Stage	Prerequisite	Internal Effort	External Effort	Cost	Completion Status \downarrow
One Proposal Recalcu	Business Process	Candidate	Production		N/A	N/A	N/A	Not completed
Get Cash-Flow	Business Process	Candidate	Production		50			Not completed
Collecting Informatio	Business Service	Candidate	Production		N/A	N/A	N/A	Not completed
FinPlanner Access fro	Business Service	Candidate	Production		50			Not completed
Financial Review Serv	Business Service	Candidate	Production		10			Not completed
Goal Acceleration	Business Service	Candidate	Production					Not completed
web pages	Application Interface		Production					Not completed
FinPlanner from Inter	Business Service	Candidate	Production			30		Not completed
Calling Appl GUI	Application Interface		Production					Not completed
Get Client's FinBank	Business Service	Candidate	Production		40			Not completed

Also, on the same page certain plateau elements can be marked as prerequisites. These
elements are handled by projects other than the current proposal or projects created on behalf of it.
This ensures dependencies on other proposals / projects, visible on the Prerequisites tab of the
proposal.

Proposal Prerequisites							
You can track dependencies of this proposal to other proposals and projects	s. Before all the archite	cture cha	nges listed here are not co	ompleted, it is not advisable to stars	t a project based o	on this proposal.	
						Se	arch 💿 Q
Name	Туре↓	Owne	Plateau	Realized by	Last Approved	Target Stage	Completion Status
Product modeling	Business Service	Dav	FinPlanner	ACME Intranet	Candidate		Not completed
Create Business Proposal	Business Service	Dav	= FinPlanner	ACME Company Intranet	Candidate		Not completed
Collecting Client's Cash-Flow Information	Business Service	Jose	= FinPlanner	Billing Systems Integration	Candidate	Production	Not completed
Collecting Information about Client's FinBank Products	Business Service	Jose	FinPlanner	CME Intranet	Candidate	Production	 Not completed

Creating Project from Proposal

The HPE EM proposal page allows you to automatically create a project and the associated deliverables.

To achieve this, perform the following steps:

1. Open the proposal and in the Overview tab click the link 'You can create a project for this proposal...'. This link is available only for an empty proposal; it does not have association with any project as such.

Overview	A To create the architecture vision for this proposal, you need to associate it with a package, create a plateau that will track the changes and a couple of diagrams. You car Package for this proposal:
Requirements	Enter Text
Changes to be Delivered	
Prerequisites	Proposal represents a request for an architecture change. It is expected that a proposal will go through a set of stages; first the proposal should be driven by requirements plateau that is modelling the desired outcome is built. At this point of time it is known how costly the implementation of the proposal will be so that it can be turned into a
Details	Building Enterprise Applications: Billing & Collection Management, Develop Resource Partnership Requirements, Manage Campaign, Product & Offer Development & Retin Requirement Analysis
Documentation	Composed of (Requirements): Link new, Link existing Aggregates (Requirements): CRM Support & Readiness, Operation, Product Development & Retirement processes, Strategy Infrastructure & Product and 4 more =
Tree View	Requirement Diagrams: Architecture of Enterprise Application Reorganization, Requirements of Enterprise Application Reorganization
Lifecycle	More on requirements
Access Rights	Create a Project for this ProposaL.
History	Associated Plateaus: All architecture elements from the plateaus with the exception of prerequisites are copied into the deliverables Implementing Projects: Link new, Link existing
Show More	Architecture Diagrams: Architecture changes of CRM Support & Readiness, Architecture changes of Operation, Architecture changes of Product & Offer Developm and 2 more
	Changes to be Delivered
	27 Elements total, more
	Internal Effort: 545
	External Effort: 540
	Cost: 362130

2. Enter the project name, start date and end date.

Create P	roject from P	roposal	'FinPlanner'		×
	ill create project from will create deliverabl		sal. It will copy the conto m.	ents of the plateaus	associated with the
Name:	Financial Plannin	g 2016			
Start Date:	05/04/2015				
End Date:	03/01/2016				
				Сге	ate Cancel

This action creates a project linking it with the current proposal and for each plateau associated with the current proposal, a realizing deliverable. All elements aggregated in a plateau of proposal, are also aggregated by the corresponding deliverable of the project created.

Setting Target Architecture

HPE EM makes it possible to manage architecture changes which are going to be delivered or have been delivered for a Plateau or a Deliverable respectively.

Setting Target Stage

1. In the Overview page of a plateau or deliverable, scroll down to see Target Architecture Changes or Delivered Architecture Changes.

To make changes for a specific artifact, double-click the target stage of the artifact you wish to modify and select the desired target stage.

Target Architectu	ure Changes						
°o ⊽ 🖋 ⊽ 🗶						All items 👻 Se	earch 💿 🔍 🎦
Name	Туре	Last Approved Stage	Target Stage	Prerequisite	Internal Effo	ert External Effe	ort Cost
One Proposal Rec	Business Process	Candidate	Production		N/A	N/A	N/A
Get Cash-Flow	Business Process	Candidate	Production		50		
Collecting Informa	Business Service	Candidate	Production	- 🖸	N/A	N/A	N/A
FinPlanner Access	Business Service	Candidate	Cancelled		50		
Financial Review	Business Service	Candidate	Candidate Deprecated		10		
Goal Acceleration	Business Service	Candidate	Development				
web pages	Application Inte		Production				
FinPlanner from I	Business Service	Candidate	Retired			30	
Calling Appl GUI	Application Inte		Production				
Get Client's FinBa	Business Service	Candidate	Production		40		
« •	>>>	C					Displaying 1 - 10 of 136

2. To make changes to multiple artifacts at once; select the artifacts, click **Set Target Stage** icon and select the desired target.

Target Architecture Ch	Deprecarea						
	Development						
°o ⊤ ∦ ⊤ X	Draft				All items 🔍	Search	© Q 🗾
□ Nam Set Target Stage >		Target Stage	Prerequisite	Internal Effort	External Effort	Cost	Completion Status
One Proposal Business P	Implementation	Production		N/A	N/A	N/A	 Not completed
Get Cash-Flow Business P	Implemented	Production		50			Not completed
Collecting Info Business S	Initial	Production		N/A	N/A	N/A	Not completed
FinPlanner Acc Business S	Kick-off	Production		50			Not completed
Financial Revie Business S		Production		10			Not completed
Goal Accelerat Business S	Obligation Agreement	Production					Not completed
web pages Application	On roadmap	Production					Not completed
FinPlanner fro Business S	Production	Production			30		 Not completed

Note: The list of target stages is extracted from all the lifecycle processes which are currently being published. Some of them may not be applicable to the artifacts you have selected, in which case you will get a notification in the report once the operation is finished.

3. You will see a summary of the status which shows the stage as successfully set and/or skipped.

Setting Target Stage finished. Result: 3 successful. Click here for detailed report.

The stages which are not applicable for certain artifacts are automatically skipped; these are those artifacts which are not under governance. There are other artifacts which are under governance but the governing process does not contain the selected stage, those also, are skipped.

4. Click to see detailed report of the artifacts with the status.

Setting Target Stage Report									
Finished (started by 🖀 Administrator, 9:56:13 AM)									
3 successful.									
<i>d</i> [*] ★									
Name	Artifact Type	Status 🔫							
One Proposal Recalculation	Business Process	Successful							
Get Cash-Flow	Business Process	Successful							
Collecting Information about Client's FinBank Products	Business Service	Successful							

Setting Efforts of Architecture Changes

HPE EM allows users to manage costs, and internal and external effort of the architecture changes. To do this, open the respective plateaus which define the architecture changes and then enter the data. This helps speed up the evaluation process and assists stakeholders make some key decisions.

ο τ 🖉 τ 🗙						1	All items 👻 Sea	rch 💿 🔍
Name	Туре	Last Approved Stage	Target Stage	Prerequisite	Internal Effort	External Effort	Cost	Completion Status ↓
One Proposal Recalcu	Business Process	Candidate	Production		N/A	N/A	N/A	Not completed
Get Cash-Flow	Business Process	Candidate	Production		50			Not completed
Collecting Informatio	Business Service	Candidate	Production		N/A	N/A	N/A	Not completed
FinPlanner Access fro	Business Service	Candidate	Production		50			Not completed
Financial Review Serv	Business Service	Candidate	Production		10			Not completed
Goal Acceleration	Business Service	Candidate	Production					Not completed
web pages	Application Interface		Production					Not completed
FinPlanner from Inter	Business Service	Candidate	Production			30		Not completed
Calling Appl GUI	Application Interface		Production					Not completed
Get Client's FinBank	Business Service	Candidate	Production		40			Not completed

Monitoring Architecture Changes

The proposal owner can monitor the following aspects:

• The overall aggregated cost and effort required to implement the proposal

Changes to be Deli	vered	
68 Elements total, more		
Internal Effort:	7459	 Completed Not completed
External Effort:	3045	Not completed
Cost:	1180000	

- The progress of the process:
 - $\circ~$ This is possible if a link is setup from PPM to EM ().
 - Monitoring compliance of the solution to company policies.

	Delivered Architecture Changes	ivered Architecture Changes										
	Here you can see a list of architecture changes that needs to be delivered it.	d by this proposal. Each change is deci	lared with	in a plat	eau which represents a st	able state of the ei	nterprise architec	ture. To alter the o	costs of the arci	hitecture chang	e you need to open tl	e plateau which decl
Changes to be Deliver	red										Sea	rch 🛞 🤇
	Name	Туре↓	Versio	Owner	Plateau	Last Approved	Target Stage	Internal Effort	Ext. Effort	Cost	Compliance	Completion Status
	A Service Management & Operations	Business Functi	1.0	Dav	# Enterprise Applic	Supported	Supported		10		3 Violations	 Completed
	A Supply Chain Development & Management	Business Functi	1.0	And	= Enterprise Applic	Supported	Supported	15			3 Violations	Completed
	A Support Billing & Collections	Business Functi	1.0	Dav	Enterprise Applic	Supported	Supported			67800	1 Violation	Completed
Documentation	A Launch New Product	Business Functi	1.0	And	Enterprise Applic	Supported	Candidate				1 Violation	Not completed
	Resource Management & Operations	Business Functi	1.0	Dav	Enterprise Applic	Retired	Supported				3 Violations	Not completed
Tree View	A Develop New Product Business Proposal	Business Functi	1.0	And	Enterprise Applic	Deprecated	Supported				1 Violation	 Not completed
	A Manage Customer Inventory	Business Functi	1.0	Dav	Enterprise Applic	Supported	Retired		10		1 Violation	 Not completed
	A Marketing & Office Management	Business Functi	1.0	And	Enterprise Applic	Supported	Retired				3 Violations	 Not completed
	A CRM Support & Readiness	Business Functi	1.0	Dav	# Enterprise Applic	Candidate	Implementat				1 Violation	 Not complete
Access Riahts	A Support Selling	Business Euncti	10	Dav	# Enterprise Applic	Candidate	Implementat				1 Violation	Not completed

Chapter 6: Cloud Transformation

For a detailed overview of this topic refer to "Cloud Transformation" in the Concepts Guide.

This section covers the following 4 topics:

- "Accessing from HPE Cloud Service Automation" below
- "Cloud Transformation Guide" below
- "Estimating Cost of Deployment" on page 81
- "Service Design Publishing" on page 86

Accessing from HPE Cloud Service Automation

HPE Enterprise Maps (HPE EM) manages centralized Business Model that links with HPE CSA and HPE CODAR products. In the HPE CSA/CODAR homepage, navigate to **Cloud Transformation** tile to access **Cloud Transformation Guide** and **Cloud Transformation Reports**.



Cloud Transformation Guide

The Enterprise Maps Cloud Transformation Guide functions like a wizard and comprises of 3 separate panels. The wizard runs you through the cloud transformation process. This process helps provide

Application Contacts	0	2	3 4	5
198 Applications	Import Data		nalyze Results Model Deploymen	5
6 Surveys in progress	Import list of applications and their contacts.	To evaluate the deployment costs of your appli	cations, EM requires to register your data center(s) and 198	l create server profiles you are using. 789
Application Deployments	Contacts	Data Centers	Applications	Servers / VMs
42 Service Designs	Import from Spreadsheet Import from AD/LDAP Create New	Import Public Offerings from HPE Import from Spreadsheet Create New	Import from Spreadsheet Import from HPE PPM Import from HPE UMDB Create New	Import from Spreadsheet Import from HPF: UCMDB Create New
	79% CLOUD READY APPLICATENS The relative number of applications having technical assessment score higher than 25.		90% APPLICATIONS WITHOUT KNOWN DEPLOYMENTS VD the relative number of applications that are not associated with a deployment/infrastructure service.	Ó% PUBLIC CLOUD COMPATIBLE APPLICATION The relative number of applications having technical assessment score legiver than 75

insights into status of IT infrastructure.

The 3 panels of the guide are:

- Left panel: statistics of applications and associated deployments
- Middle panel: wizard to build up reference models and service designs
- Bottom panel: recommended Cloud platforms based on KPIs

Left Panel

Concept	Description
Application Contacts	All contacts.
Applications	All application components.
Surveys in-progress	Surveys currently open.
Application Deployments	Infrastructure services representing deployments of applications.
Service Designs	Infrastructure services representing CSA service designs (in CSA Service Designs domain).

Middle Panel

Step	Description				
Import Data	Publish data through Catalog UI or from CSV, PPM and UCMDB.				
Run Surveys	Start surveys for applications. Each survey generates scores relevant to the survey perspective.				
Analyze Results	View Cloud Transformation Status and Cloud Heat Map reports.				
Model	Build up deployments from Sparx Systems EA or import them from				

Middle Panel, continued

Deployments	Spreadsheets.
Build Service Designs	Create topology service designs in CSA.

Bottom Panel

Concept	Description
Cloud Ready	Application components having Technical Alignment above 25%. This default value can be customized. The technical alignment score is generated after respondents fill in Cloud Technical Survey.
Automated Deployments	Application components having a service design associated.
Without Known Deployments	Application components with no deployments associated.
Public Cloud	Application components having Technical Alignment above 75%. This default value can be customized. The technical alignment score is generated after respondents fill in Cloud Technical Survey.

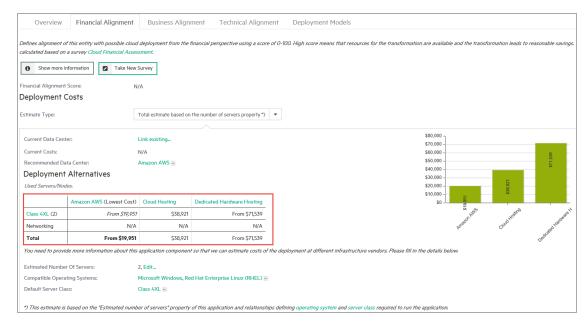
Estimating Cost of Deployment

Cloud Transformation UI provides 2 types of estimation for deployment cost:

- 1. Rough: based on required Server Class and estimated number of servers.
- 2. Detailed: based on deployment model.

For rough estimation:

- 1. Open the Application Component.
- 2. Go to Cloud Transformation tab and click **Financial Alignment** sub tab.
- 3. In Estimated Number Of Servers field click Edit and enter a number here.
- In the Compatible Operating Systems field select the Operating System required. If no selection is made, the estimation assumes that the application component can run under any operating system.
- 5. In **Default Server Class** field click **Link Existing** and select a Server Class.



6. Once all the details are entered, the UI refreshes to show the estimated cost.

Note: Most applications in EM demo data contain a rough estimation. See one of the examples such as ASAC.

For detailed estimation:

- 1. Follow "Building Reference Model for Cloud Transformation" on page 159 to create a reference model.
- 2. Go to Cloud Transformation tab of the application component and click **Financial Alignment** sub tab.
- 3. In **Estimate Type** field, from the drop down, select a reference model (deployment) from the drop down. The UI refreshes to show estimated cost for this reference model.

For example: the following screen shot shows the estimated cost of ASCENT application

Overview Financial	Alignment Busin	ess Alignment Techn	ical Alignment Depl	oyment Models
calculated based on a survey Cloud	Financial Assessment.	nt from the financial perspective	using a score of 0-100. High	score means that resources for the transformation are available and the transformation leads to reasonable saving:
Financial Alignment Score:	76 of 100			
Deployment Costs				
Estimate Type:	ASCENT CI	oud Env 🔻		
Current Data Center:	Cloud Host	ing		\$80,000 -
Current Costs:	\$12,226			\$70,000 -
Recommended Data Center:	Amazon AV	VS		\$60,000 - 550,00
Deployment Alternativ	es			\$40,000 -
Used Servers/Nodes.	pdo2003-0	11.labs.peregrine.com, VMAMQA	284	\$30,000 - \$20,000 - 92
	Cloud Hosting (Current)	Amazon AWS (Lowest Cost)	Dedicated Hardware Hostin	33
VMAMQA284	\$6,312	From \$2,735	From \$36,36	
pdo2003-01.labs.peregrine.com	\$3,156	From \$1,630	From \$35,76	name of the state
Networking	\$1,379	\$919	\$1,37	the second secon
Total	\$12,226	From \$6,203	From \$74,88	2

component using ASCENT Cloud Env reference model (deployment).

Note: Some applications in EM demo data contain a detailed estimation based on one or more deployment models. Refer to any one of the below for example:

- ASCENT
- CCM Core
- Softsing
- HR System
- Payment Gate
- RMC Backend
- TLS
- Travel Connect Mobile

How cost estimation works

In both estimation types, a Server Class must be specified; for each Server in deployment model (in case of detailed estimation) and for the application component (in case of rough estimation). The specified Server Class is used to find Server Profiles provided by data centers (listed as columns).

In case a data center provides only a single matched server profile (mostly in cases when no Operating System is specified), a single cost value is returned as the estimate for that data center. Else, the lowest cost is returned with 'From' as a prefix.

Server profiles provided by a data center have *Assigned* from relationship with that data center. Optionally, a data center may have a default server profile ('Default Server Profile' relationship). This default server profile is used for estimation in case no Server Class is specified. Cost per Server (yearly) is calculated from its specialized Server Profile following the formula below:

Server Yearly Cost = [Total Cost of Acquisition / (Expected Lifetime / 12)] + [Cost Per Hour * 24 * 365.25]

Note: If Total Cost of Acquisition and Expected Lifetime are not entered (as in below image), the default values are 0 and 48 respectively.

Also, refer to "Domain Visualization" on page 15.

Name: *		AWS c3.2	xlarg	ge linu	ıх		
Description:		* -	В	Ι	U	8	Metric 🗸
Version:		1.0					
Package:		Repositor		eferer	nce Da	ita > Se	erver Profiles
Total Cost of Acquisition:	Ş						
Per Hour Cost:	Ş	0.504					
Expected Lifetime (Months):							
Memory (GB):		15					
CPU Cores:		28					
Storage Size (GB):		160					
Alias:							

How to Refresh Pricing Information

Pricing information of Amazon Web Service is available and up-to-date as of the release of Enterprise Maps. To get the latest pricing information follow the steps in *EM_HOME/demos/cloud-pricing-import/README* file.

Networking Cost

Networking cost is specific to each data center and built on the monthly network traffic consumed by the application component itself.

A data center calculates the networking cost of any application deployed on it, using a formula defined by the Networking Cost Formula property. This formula is a Javascript function that generates the cost based on the monthly network traffic of the current application component.

		Located	in Cloud Transformation Referenc no votes 🔶 🚖 🔅	
Overview	I × 0 ⊠ …		Add to Fa	avorites
	Amazon Web Services (AWS) is a co and well-known of these services are	silection of remote computing services, also called web services, that make up a cloud computing platform offered by Amazon.com. These services are based out of 11 peographical regions across the world. The most centra A Amazon Elastic Comparte Cloud and Amazon 33. These products are marked as a service to provide larger comparing capacity more quickly and chapter than a client compare building an actual physical server farm		My Tasks ks defined.
	Package:	Repository > Data Centers		Last Edit System
	Owner: Networking Cost Formula:	System Hide	Policy Con	mpliance
	1 *)* 2 * An example calculation f 3 */ 4 * function calculateCost(trop) 5 yar cost = 0:		Planning Consistency ArchiMate® Compliance	100 %
	6 - if(trafficGB > 10000) { 7 cost = trafficGB + 0 8 - } else if(trafficGB > 1 9 cost = trafficGB + 0 9 cost = trafficGB + 0 10 -) else ((998		(eywords None se
	10 °) eise (11 cost = trafficGB * (9.2j		/ Edit

The networking cost is then accumulated into the total deployment cost (either based on rough or detailed estimation) of an application component.

eployment		sting for this application comp	onent when deployed into availa	le data centers
stimate Type:		Total estimate based	on the number of servers property	•)
Current Data Ce	enter:	HP Cloud		\$350,000
Current Costs:		\$56,804		\$250,000
Recommended	Data Center:	HP Cloud		\$200,000 -
Deploymer	nt Alternatives			\$150,000 -
Used Servers/N	lodes:	pdo2003-01.labs.pe	regrine.com, VMAMQA284	\$100,000
	HP Cloud (Current)	Amazon AWS (Lowest Cost)	Dedicated Hardware Hosting	\$0 5
Class XL (9)	\$56,804	From \$24,615	From \$327,252	ator here we are a set of the set
Networking	\$3,500	\$6,000	\$N/A	brok K. and the
Total	\$60,304	From \$30,615	From \$327,252	Outlos
You need to pro	vide more information	about this application compon	ent so that we can estimate cost	of the deployment at different infrastructure vendors. Please fill in the details below.
Estimated Num	ber Of Servers:	9, Edit		
Compatible Ope	erating Systems:	Microsoft Windows,	Red Hat Enterprise Linux (RHEL	

The cost is not available for an undefined or malfunctioning formula (syntactically invalid), or if the network traffic is not available for the application component.

Service Design Publishing

A topology service design in CSA is modeled by an Infrastructure Service in Enterprise Maps. This service along with other model elements such as servers, application components, system software etc. can be then published to CSA as a real service design.

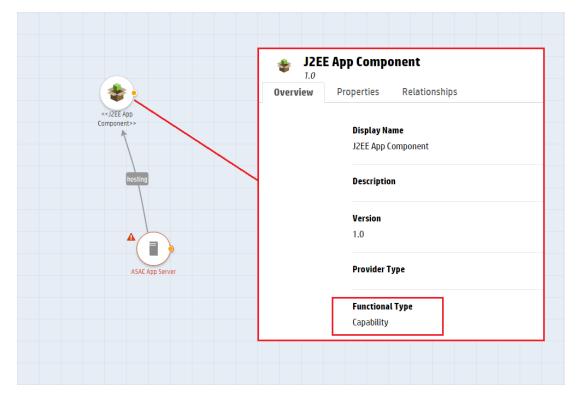
An infrastructure service can be published in 2 ways: either from a CSA reference service design or from a deployment model.

Publishing from a CSA Reference Service Design:

This approach requires a service design which is created in CSA and then imported into EM as a reference model. The reference model is then used to publish the actual model back into CSA.

The reference service design must contain a component with functional type of Capability. This component acts as a reference component; a place holder which is then replaced by a more concrete one during publishing.

- How to Publish
 - In CSA, create a reference service design as below:



- Create a component called ASAC; the functional type for which is Concrete.
- Create another component called J2EE App Component; the functional type for which is Capability.
- Define J2EE App Component as the supported capability of ASAC.

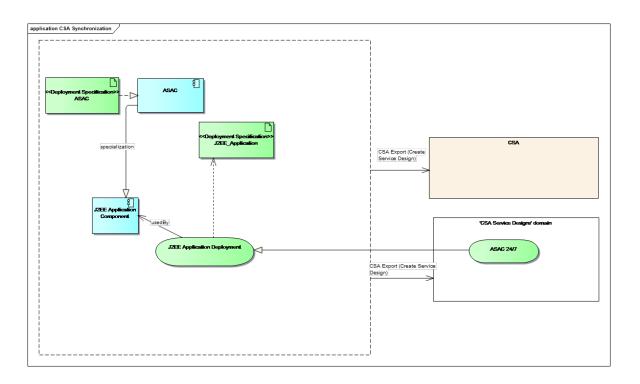
C Topology Components		
* ASAC (1.0)		
Overview Properties Relationships Operations Capability Characteristics		
Capability		
J2EE App Component (1.0)		
Property Mappings		
Capability Property	Comp	onent Property

• Define **outgoing** relationships from other components. For example: servers to J2EE Application Component. These relationships are inherited by ASAC by default.

CLOUD SERVICE AUTOMATION	admin	 Help 🧕
< Topology Components		
Amazon Server (15.07.0000)		۰
Overview Properties Relationships Operations Capability Characteristics		
Relationships		Create
Outgoing Relationships		
dthung_JZEE to dthung_out		٥
JZEE App Component 10 JZEE App Component		•

 Create the service design with J2EE App Component and other relevant components such as servers.

In EM, with regard to below example model prepare as per steps given ahead:



- Create an application component: ASAC.
- Create a reference application component (application in a Reference Model domain): J2EE
 Application Component.
- Import the components and service designs from CSA (For details see, "Importing Data from Integration Server" in *Administration Guide*).
- Run the **Deployment Specification Association Update** Task to link the imported deployment specification (representing components in CSA) to the existing application components system software. This is required to publish application components and system software into CSA.

• Make J2EE Application Component a reference application of ASAC.

ASAC, version 1.0 Application Component, governed in Ca	Located in Default Domain endedne stage (start at 310% 627 PM) novetes 🛧 🛧 🖈
	To migrate an application into cloud you need to verify that the application is compatible with such a deployment model. For example the application must support execution on a virtual machine on the other hand the target deployment environment must meet the application security and performance requirements. To get this information fill-in the surveys that will guide you through this process.
	Overview Financial Alignment Business Alignment Technical Alignment Deployment Models
Cloud Transformation	An Application Deployment Model describes an infrastructure service together with various technology-layer elements that provide run of the application. Deployment Models are required for applications that are selected for cloud transformation and require
	automated diployment. Hey vary between working environments and SLOs. Image: Show more information Image: Show more information
	Reference Applications: JZEE Application Component =
	'ASAC' Deployment Models Select a deployment below to get more details and possibly to create a service design for it. You may also associate an existing service design with the deployment model then.
	Deployment Modek Vone available V
	You can associate this application with its reference applications. When defining a deployment model/service design for such reference applications, you can reuse if for multiple applications, which share the same architecture.
History	Image: Associate Reference Application Image: Associate Reference Application
Show More	

• Link J2EE Application Component to the imported infrastructure service (reference service design).

J2EE Application Con Application Component, governed in C	nponent, version 1.0 Located in Gloud Transformation Reference Model Londotter stage (start as: 31/7/6 229 FH) no votes 🔹 🖈 🛣
	To migrate an application into cloud you need to verify that the application is compatible with such a deployment model. For example the application must support execution on a virtual machine on the other hand the target deployment environment must meet the application security and performance requirements. To get this information fill-in the surveys that will guide you through this process.
	Overview Financial Alignment Business Alignment Technical Alignment Deployment Models
Cloud Transformation	An Application Deployment Model describes an infrastructure service together with various technology-layer elements that provide run of the application. Deployment Models are required for applications that are selected for cloud transformation and require
	automated deployment, they vary between working environments and SLOs. O Show more information
	Reference Applications: Link existing_
	'J2EE Application Component' Deployment Models
	Select a deployment below to get more details and possibly to create a service design for it. You may also associate an existing service design with the deployment model then.
	Reference Service Designs: JJEE Application Deployment
	You can rebuild a Service Design for this reference model application. When doing so, you are able to build a service design for all the applications which specialize this particular reference model application. To archive the applications, create an Application Component capability in the service design which represents this application component. Thereafter, visit this location only for the non-reference application component. You are provided with a new deployment model.
History	Searchite Beference Service Design
Show More	

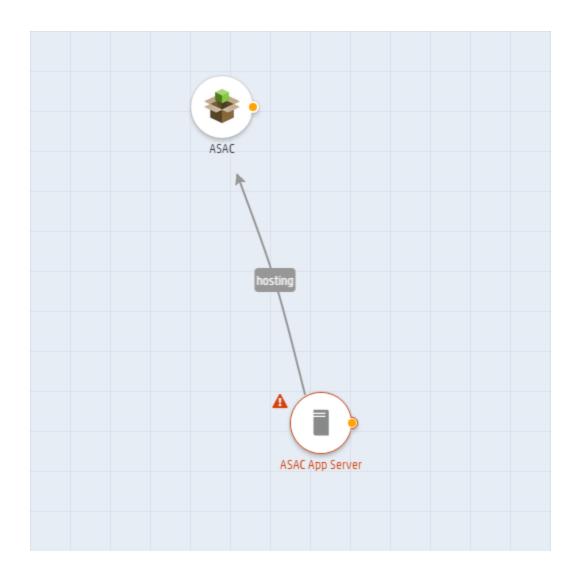
- Ensure that infrastructure service is linked to a deployment specification which contains JSON data of the reference service design.
- Go to Cloud Transformation > Deployment Models tab of ASAC application component. Select the deployment model to be published from the drop-down list, review its mapping to CSA topology components and click Create new Service Design button.

ASAC, version 1.0 Application Component, governed in Ca	ndidate stage (start at: 3/17/16 6:27 PM)						Located in Default Dom no votes 🖈 🖈 🛧		
		o migrate an application into cloud you need to verify that the application is compatible with such a deployment model. For example the application must support execution on a virtual machine on the other hand the target deployment environment must meet the application security and performance requirements. To get this information fill-in the surveys that will guide you through this process.							
	Overview Financial Alig	inment Bi	usiness Alignment Tecl	hnical Alignment	Deployment	Models			
Cloud Transformation		An Application Deployment Model describes an infrastructure service together with various technology-layer elements that provide run of the application. Deployment Models are required for applications that are selected for cloud transformation and require automated deployment, they vary between working environments and SLO.							
	Show more information	en working envir	ninens and SLOS.						
	Reference Applications:		plication Component						
	'ASAC' Deployment Models Select a deployment below to get more		ly to create a service design for it.	. You may also associate ar	n existing service	e design with the deployment model then.			
	Deployment Model:	J2EE A	pplication Component > J2EE Appli	cation Deployment 💌					
	J2EE Application Deployn	nent							
	Environments:	N/A							
Show More	Visualized by Diagrams:	N/A							
	Create new Service Design		Existing Service Design	y Components. The CSA T	opology Compor	nent column is editable, if you wish to change the mapping.			
							Search 🛞 Q,		
	Application Model Element			CSA Topology Compone	nt				
	Name †	Version	Туре	Name		Version			
	ASAC	1.0	Application Component	ASAC =		1.0			
		» C					Displaying 1 - 1 of 1		
	Create new Service Design								

• Provide the service design name and a CSA integration server for publishing and then click **Publish**.

Artifacts V Create V Import V	습 Favorites 🛛 Recent Documents 📰 My Tasks 📋
Create new CSA Service Design Stow more information	Automate Infrastructure Service Deployment
Service Design Name: JZEE Application Deployment	
CSA Server: Default CSA Server *	You are going to mate a new CSA service design based on a service design reference model that is already imported to EM and associated with the currently selected infrastructure service/deployment model. This allows you to automate the infrastructure service deployment.
	Configure CSA Integration.
Cancel Publish	

• The published service design looks as in the below image:

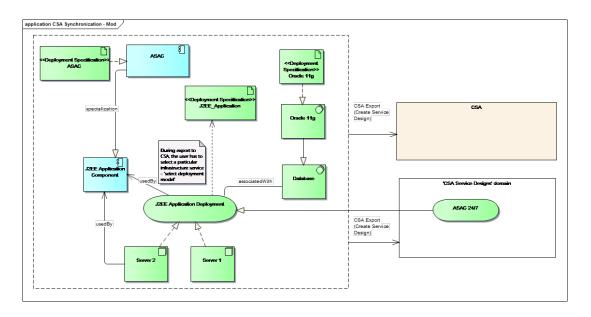


Publishing from a Deployment Model:

This type of publishing relies upon the artifacts (model elements) associated with an infrastructure service. Together, they form a complete deployment model to be published into CSA.

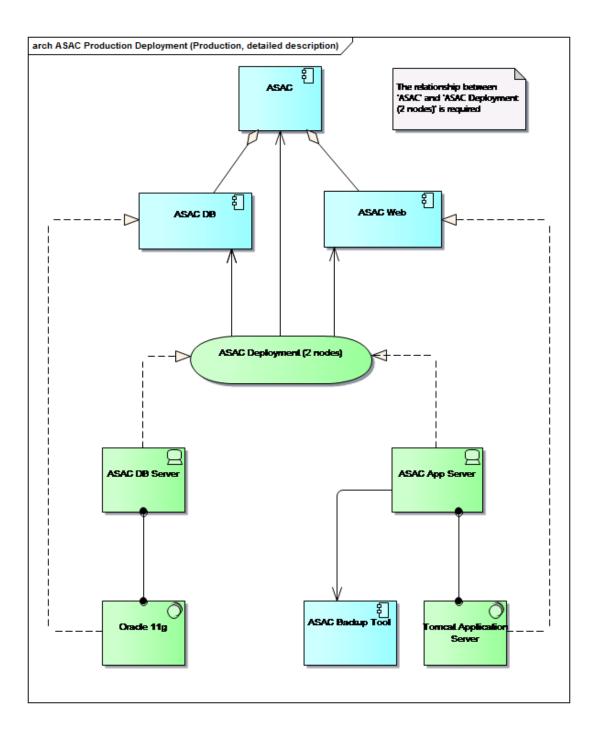
- Supported Models:
 - Archimate Compliant Model

This model demonstrates a simple deployment model compliant with Archimate. It just provides an overview of the model without any details of which server the application is deployed on.



• In-Depth Model

In addition to the Archimate compliant model, EM also supports a model with a higher level of granularity which provides further details on how the application components are deployed onto servers or decomposed into sub-components.



How to Publish

In CSA

• Create relevant components with the same names, which represent the application components, system software to be published to CSA. For example: ASAC, Oracle 11g, etc. It is not required to

CLOUD SERVICE AUTOMATION		Create Topology Component ?	×
C Topology Components		Display Name *	^
By Provider Type		ASAC	
♣ HPE Helion Development Platform	^	Description	
HPE Insight Control server provisioning			
HPE Matrix Operating Environment		Version	
HPE Network Automation		1.0	
👄 HPE OneView		Functional Type	
HPE Server Automation		Concrete 💟 🤉	
HPE SiteScope		Provider Type	
- HPE UCMDB		(none)	
HPE Virtualization Performance Viewer		Image	
jin Microsoft SCVMM		*	
OpenStack		Change Image	~
A Puppet		Tags	
VMware vCenter	~	Create Cance	

create a component for an application component or system software which is *specialized* by another one as these are not published into CSA at all.

• Define the *outgoing* relationships amongst the components created, based on how they are visualized in the models. However, the relationship names can be defined arbitrarily as they do not rely upon EM relationship names. These relationships, if defined correctly, are used to visualize how components are connected in the service design.

Components							
SASAC (1.0)							
Overview	Properties	Relationships	Operations	Capability	Characteristics		
Relations	hips						
Outgoing R	elationships						
*	ASAC Web 1. aggregatedWeb						
*	ASAC DB 1.0 aggregatedDB						

In EM

- Prepare a model as illustrated above (it is recommended that the model is developed by a modeling tool such as Sparx EA), with the following prerequisites/practices:
 - The infrastructure service can be used by one or more application components.
 - An application component can use multiple infrastructure services. User must select which one is required for publishing.
 - Application components and system software might be *specialized* by other components and system software. These components and system software are not published, since they are regarded as reference artifacts in the model.
 - Application components and system software (which are not specialized by others) must be realized by deployment specifications imported from CSA (For details see, "Importing Data from Integration Server" in Administration Guide). These deployment specifications contain the CSA component information which is required to publish an application component and system software to a CSA service design.
 - The data center is required to create the components which represent servers in a CSA service design. Use the "Server CSA Component" relationship on the Data Center view page to specify

which server component is to be used for publishing. The components must be imported from CSA first.

Amazon AWS, version 1.0 Data Center						
Overview						
Documentation	Amazon Web Services (AWS) is a collection of across the world. The most central and well- cheaper than a client company building an ac	-known of these services a				
Tree View	Package:	Repository > Data Cent				
Lifecycle	Owner: Networking Cost Formula:	System Show				
Compliance	Relationships					
	Server CSA Component:	Amazon Server				
Access Rights	Available Server Profiles:	AWS m3.medium rhel, A				
History	Default Server Profile: Recommended to Application Components:	Link new, Link existing. FinPlanner Application,				

If this relationship does not exist, the server component is retrieved from the default configuration (CSATopologyDesignTemplate.ftl script). Current supported data centers are: "Amazon AWS" and "VMware vCenter". The data center artifacts must be named accordingly.

- Open an application component in the model which is not *specialized* by any other. For example: ASAC application component.
- Go to Cloud Transformation > Deployment Models tab, select the deployment model to be published from the drop-down list, review its mapping to CSA topology components and click Create new Service Design button.

Application Deployment Model de tomated deployment, they vary bet			ious technology-layer elements that pr	ovide run of the application	. Deployment Mod	els are required for a	applications that are	selected for cloud transfor	mation and r
	ween working env	nonmenis and SEOS.							
Show more information									
ference Applications:	Link e	xisting							
SAC' Deployment Mode	s								
1. 7		ibly to create a service design fi	or it. You may also associate an existing	service design with the de	oloyment model th	en.			
			,						
ployment Model:	ASAG	C Deployment (2 Nodes)							
ASAC Deployment (2 No	des)								
nvironments:	N/A								
'isualized by Diagrams:	ASAG	C Production Deployment (Prod	luction, detailed description)						
	ASA0	C Production Deployment (Prod	luction, detailed description) 🔤						
CSA Service Designs:	N/A								
	N/A	C Production Deployment (Prod te Existing Service Design							
Create new Service Desig	N/A jn Associa	te Existing Service Desig	n	omponent column is edita	ble, if you wish to a	change the mapping			
CSA Service Designs:	N/A jn Associa	te Existing Service Desig		"omponent column is edita	ble, if you wish to o	hange the mapping			
CSA Service Designs:	N/A jn Associa	te Existing Service Desig	n	Component column is edita	ble, if you wish to o	hange the mapping		Search	0
CSA Service Designs:	N/A jn Associa	te Existing Service Desig	n	".omponent column is edita	ble, if you wish to o	change the mapping		Search	8
CRA Service Designs: Create new Service Design Create New Service Desi	N/A jn Associa	te Existing Service Desig	n ology Components. The CSA Topology	Component column is edita	ble, if you wish to c	change the mapping		Search_	0
SA Service Designs: Create new Service Design the following table displays the ma Application Model Element Name †	N/A gn Associa	te Existing Service Desig	csA Topology Component		ble, if you wish to c	change the mapping		Search_	0
SA Service Designs: Create new Service Desig The following table displays the map Application Model Element Name †	N/A nn Associa apping of deployme Version	te Existing Service Design ent model elements to CSA Topo Type	CSA Topology Component CSA Topology Component Name	Version	ble, if you wish to c	change the mapping		Search_	0
SA Service Designs: Create new Service Design The following table displays the may Application Model Element Name 1 40 ASAC 20 ASAC App Server	N/A Associa apping of deployment Version 1	te Existing Service Design ent model elements to CSA Topu Type Application Component	CSA Topology Components CSA Topology Component Name ASAC =	Version	ble, if you wish to c	change the mapping		Search_	٥
SA Service Designs: Create new Service Design the following table displays the ma Application Model Element Name † 11 ASAC 24 ASAC App Server 11 ASAC Seakup Tool	N/A Associa oping of deployme Version 1 10	te Existing Service Design ent model elements to CSA Tops Type Application Component Server	CSA Topology Components. The CSA Topology CSA Topology Component Name CSA Topology Component Data CSA C Depends on distancember	Version 1.0	ble, if you wish to o	change the mapping		Search_	٥
SA Service Designs: Create new Service Design The following table displays the main Application Model Element Name † I ASAC I ASAC App Server I ASAC DB I ASAC DB	N/A Associa oping of deployment Version 1 10 10	te Existing Service Design int model elements to CSA Tops Type Application Component Server Application Component	CSA Topology Components. The CSA Topology Components. The CSA Topology CSA Topology Component Name SASAC = Depends on datacenter ASAC Backup Tool =	Version 1.0 1.0	ble, if you wish to c	hange the mapping		Search_	٥
SA Service Designs: Create new Service Desig the following table displays the may Application Model Element Name 1 4 ASAC 4 ASAC App Server 4 ASAC DB 4 ASAC DB 4 ASAC DS 4 ASAC DS Server	N/A Associa opping of deployme version 1 1.0 1.0 1.0 1.0	te Existing Service Design ent model elements to CSA Topi Type Application Component Server Application Component Application Component	CSA Topology Components. The CSA Topology CSA Topology Component Name ASAC Depends on datacenter ASAC Backup Tool D ASAC BACkup	Version 1.0 1.0	ble, if you wish to o	change the mapping		Search	۵
SA Service Designs: Create new Service Design the following table displays the may Application Model Element Name † ① ASAC ② ASAC ADD Server ③ ASAC DB ③ ASAC DB ④ ASAC UBB ④ ASAC UBB ④ ASAC UBB ④ ASAC UBB	N/A Associa apping of deployme version 1 1.0 1.0 1.0 1.0 1.0	te Existing Service Design Int model elements to CSA Topi Type Application Component Server Application Component Server	CSA Topology Components. The CSA Topology CSA Topology Component Name CSA Topology Component Name AsAc C Depends on datacenter ASAC DB Depends on datacenter Depends on datacenter Depends on datacenter	Version 1.0 1.0 1.0 1.0	ble, if you wish to c	change the mapping		Search	٥
CSA Service Designs: Create new Service Desig The following table displays the maj Application Model Element	N/A Associa apping of deployme Version 1 10 10 10 10 10 10 10 10 10	te Existing Service Design ent model elements to CSA Tops Type Application Component Server Application Component Server Server Server Application Component	CSA Topology Components. The CSA Topology Components. The CSA Topology CSA Topology Component CSA Topology Component DASAC B Depends on datacenter DASAC BB Depends on datacenter DASAC BB Depends on datacenter DASAC Web	Version 1.0 1.0 1.0 1.0 1.0	ble, if you wish to a	change the mapping		Search	0
The following table displays the ma Application Model Element Mark 1 ASAC ASAC App Server ASAC Abs Server ASAC DB Server	N/A n Associa apping of deployment version 1 10 10 10 10 10 10 10 10 10	te Existing Service Design ant model elements to CSA Topu Type Application Component Server Application Component Server Application Component System Software	n CSA Topology Components. The CSA Topology CSA Topology Component Name CSA Topology Component Name ASAC B Depends on datacenter ASAC B Depends on datacenter ASAC CB DEPENDS ASAC CB A	Version 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Die, if you wish to d	change the mapping			©

• Provide further inputs for publishing, as in the below image. Click **Show more information** button to display the help texts.

Create new CSA Service Design for ASAC	
Show less information	
Service Design Name:	
Name of the service design to be published to CSA.	
ASAC Service Design	
The state of the second	
Infrastructure Service/Deployment Model:	
The infrastructure service/deployment model to be published as the service design in CSA.	
ASAC Deployment (2 Nodes)	
Select Target Data Center:	
Select the data center on which the components in the service design are deployed. All available data centers are listed here. Publishing is disabled if there is no data center.	
Amazon AWS -	
CSA Server:	Configure CSA Integration
Select the CSA integration server that is used for publishing. All available servers are listed here. Publishing is disabled if there is no CSA	
seect ne Con megnation server that is used for publicating. All available servers are instea tiere, rubinating is disauled if there is no Con server.	
Default CSA Server *	
Cancel Next	

- Publishing is disabled if no data centers or CSA integration servers are available in Enterprise Maps.
- The second step of the wizard provides a summary of the service design to be created in CSA.

Summary of new Service Design for ASAC	Automate Infrastructure Service Deployment
Amaton AWS CSA Server Default CSA Server Previous Publish	

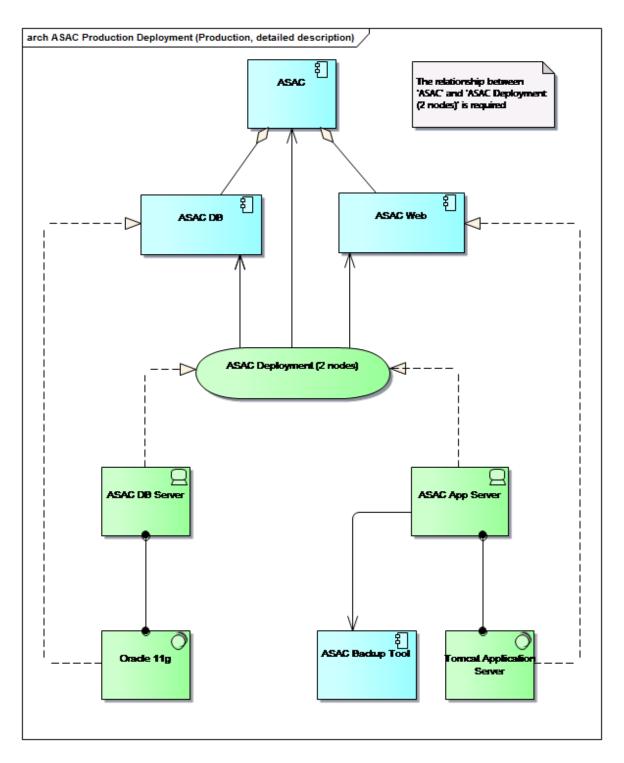
Note: The current user publishing the infrastructure service must have the "Read" access rights for all artifacts involved in the model. Else, either the publishing is disabled or the published service design is incomplete.

If the model elements are not mapped to relevant topology components, then these components (along with their relationships) get created on CSA during publishing. The elements are also mapped to the created components.

Publishing Example Diagrams

EM provides some example service designs which are modeled by the diagrams in Sparx EA. Examples of these diagrams can be found in [EM installation folder]\demos\service-designpublishing\publish-csa-sample.eap.

This topic provides step-by-step instructions on how to publish one of these supported design models to CSA as a service design.



In CSA:

• Create relevant components which represent the application components and system software to be published to CSA. For example: ASAC, ASAC DB, ASAC Web, Oracle 11g, ASAC Backup

CLOUD SERVICE AUTOMATION		Create Topology Component ?	×
C Topology Components		Display Name *	^
By Provider Type	D Op	ASAC	
↔ HPE Helion Development Platform	_	Description	
- HPE Insight Control server provisioning			
- HPE Matrix Operating Environment		Version	
- HPE Network Automation		1.0	
🖙 HPE OneView		Functional Type	
HPE Server Automation	+	Concrete 🥥 🥝	
HPE SiteScope		Provider Type	
		(none)	
HPE Virtualization Performance Viewer		Image	
Jan Microsoft SCVMM			
DpenStack		Change Image	~
🛓 Puppet		Create Cancel	
🛐 VMware vCenter 🗸 🗸			_

Tool and Tomcat Application Server.

• EM supports default server components in CSA such as Amazon Server, vCenter Server and OpenStack Server. These servers are used for publishing depending on the data center chosen as highlighted in the image below. Hence, it is not required to create components for ASAC DB Server and ASAC App Server, unless you wish to use your own-defined servers.

Create new CSA Service Design for ASAC	
Service Design Name: ASAC Service Design	Automate Infrastructure Service Deployment
Infrastructure Service/Deployment Model: ASAC Deployment (2 Nodes)	
Select Target Data Center: Amazon AVS	You can create new CSA service design based on a given infrastructure service that will be accommodated in the data center of your choice. This allows you to automate the infrastructure service deployment.
CSA Server Debuit CSA Server *	Configure CSA Integration.
Cancel Next	

Note: Currently, OpenStack Server is being used for HPE Helion.

• Define the relevant relationships between CSA components to visualize how application components, system software and servers are related to each other. That is to create:

- Outgoing relationship from ASAC to ASAC DB and ASAC Web
- Outgoing relationships from Oracle 11g to ASAC DB and ASAC DB Server
- Outgoing relationships from Tomcat Application Server to ASAC Web and ASAC App Server
- Outgoing relationship from ASAC App Server to ASAC Backup Tool

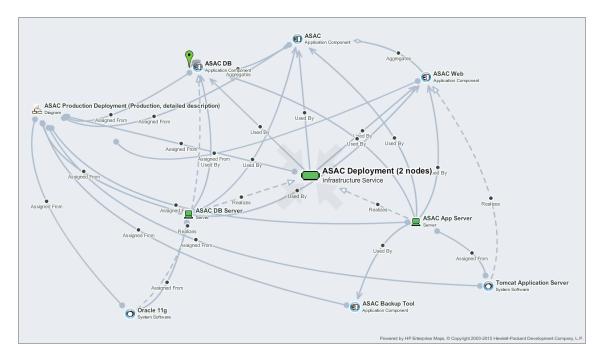
Topology Components
) Oracle 11 (1.0)
Verview Properties Relationships Operations Capability Characteristics
Create
Jutgoing Relationships
Amazon Server 18.07.0000 ssignedFrom
Server 1 InstallSOn
VA_ASAC DB 10 Realizes
ncoming Relationships

In Sparx EA

- Open the ASAC Production Deployment (production, detailed description) diagram in the project
- Sync to EM

In EM

• Verify that artifacts and their relationships are created accordingly. To do so, open the diagram that was synced to EM or open one of the artifacts in the Navigator as illustrated below:



 Create a CSA repository and then execute the associated sync task to import the components from CSA.

Default CSA Server				
Overview				
Synchronized Artifacts	Created and configured by EM installer Domain Id:	CSA Se	rvice Designs	
	Mapping Configuration:		CSA Mapping	
	Base URL:	https://	hpswvm233123.hpswlabs.adapps.hp.com:8444/csa	
	Username:	admin		
	mport from 'csaRepository'			
	Imports data using 'Default CSA Server' csaRep	pository.		
	Scheduled			
1	Next Run:	3:38 PM		
1	Recurrence:	Hourly		
1	Execution History			
	Started at 👻		Result	Run Time
	2:38 PM		✓ Finished	00:01:40
	1:38 PM		✓ Finished	00:02:14

Note: Components are imported to EM as Deployment Specification artifacts.

• Run the **Deployment Specification Association Update Task** to associate the application components and system software to the ones imported from CSA.

Deployment Specification Associat	tion Update Task	
Deployment specifications that do not realize any architector Execution History	ure element are connected to a system software or applicatic	n component of matching name and version, if such is found.
Started at 🗸	Result	Run Time
2:48 PM	✓ Finished	00:00:41

 Go to Cloud Transformation > Deployment Models tab of ASAC, select the deployment model to be published from the drop-down list, review its mapping to CSA topology components and click Create new Service Design button.

eployment Model:	ASAC	Deployment (2 Nodes)				
ASAC Deployment (2 N	odes)					
Environments:	N/A					
Visualized by Diagrams:	ized by Diagrams: ASAC Production Deployment (Production, detailed description) =					
CSA Service Designs:	N/A					
Create new Service Desi	gn Associat	te Existing Service Design		mponent column is editable, if you wish to change the mapping.		
Create new Service Desi	gn Associat		logy Components. The CSA Topology Co	mponent column is editable, if you wish to change the mapping.		
Create new Service Desi The following table displays the ma Application Model Element	gn Associat	ent model elements to CSA Topo	logy Components. The CSA Topology Co	Search		
Create new Service Desi The following table displays the mi Application Model Element Name †	gn Associat apping of deployment Version	ent model elements to CSA Topo	logy Components. The CSA Topology Co	Search		
Create new Service Desi The following table displays the mu Application Model Element Name †	gn Associat apping of deployment Version 1	nt model elements to CSA Topo	logy Components: The CSA Topology Co CSA Topology Component Name ASAC	Search		
Create new Service Desi The following table displays the mi Application Model Element Name † ASAC ASAC ASAC	gn Associat apping of deployment Version 1 10	Int model elements to CSA Topo Type Application Component Server	logy Components. The CSA Topology Co CSA Topology Component Name M ASAC ≡ Depends on datacenter	Search		
Create new Service Desi The following table displays the mu Application Model Element Mark 1 Mark 2 ASAC App Server Mark 3 ASAC App Server Mark 3 Mark 3 Mark 1 Mark 1	gn Associat apping of deployment Version 1 1.0 1.0	nt model elements to CSA Topo Type Application Component Server Application Component	logy Components. The CSA Topology Co CSA Topology Component Name Depends on datacenter Depends on datacenter Depends on datacenter	Search(Version 10		
Create new Service Desi The following table displays the mu Application Model Element Name 1 ASAC ASAC App Server ASAC App Server ASAC ADD Server ASAC ADD Server	gn Associal apping of deployment Version 1 10 10 10 10	Type Type Application Component Application Component Application Component	logy Components: The CSA Topology Co CSA Topology Component Name Depends on datacenter D ASAC B =	Search		
Create new Service Desi The following table displays the mu Application Model Element Mark 1 Mark 2 ASAC App Server Mark 3 ASAC App Server Mark 3 Mark 3 Mark 1 Mark 1	gn Associat apping of deployment Version 1 1.0 1.0	nt model elements to CSA Topo Type Application Component Server Application Component Application Component Server	logy Components. The CSA Topology Co CSA Topology Component Name Depends on datacenter DASAC Backup Tool ≣ Depends on datacenter DASAC DB ≡ Depends on datacenter	Search(Version 10		
Create new Service Desi The following table displays the mi Application Model Element Mark † ASAC App Server ASAC DB Server ASAC DB Server	gn Associat apping of deployment version 1 1.0 1.0 1.0 1.0 1.0	Type Type Application Component Application Component Application Component	logy Components: The CSA Topology Co CSA Topology Component Name Depends on datacenter D ASAC B =	Version 10 10 10		

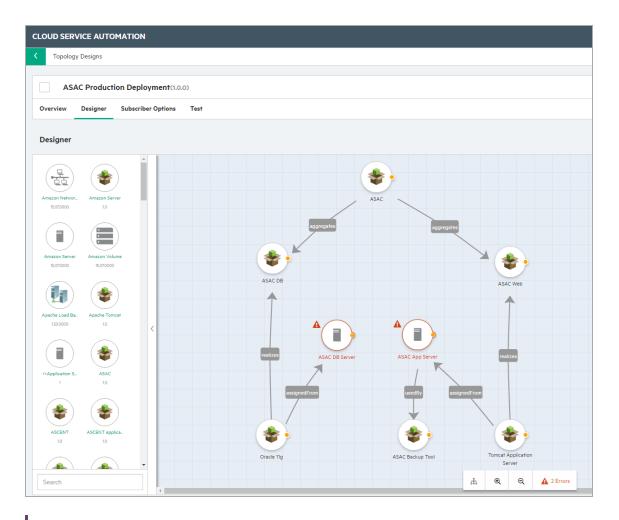
• Provide more information such as service design name, target data center which decides what server component is used to create the server components, etc. in the first step of the publishing wizard.

Create new CSA Service Design for ASAC	
Show more information	
Service Design Name:	
ASAC Service Design	Automate Infrastructure Service Deployment
Infrastructure Service/Deployment Model	
ASAC Deployment (2 Nodes)	
Select Target Data Center:	
Amazon AWS v	You can create new CSA service design based on a given infrastructure service that will be accommodated in the data center of your choice. This allows you to automate the infrastructure service deployment.
CSA Server:	Configure CSA Integration.
Default CSA Server *	Configure CSA integration.
Cancel Next	

• Thereafter, in the summary step, verify the data to be published to CSA.

Summary of new Service Design for ASAC	
Service Design Name:	
ASAC Service Lesign Involved Application Components: ASAC, ASAC Web, ASAC DB, ASAC Backup Tool	Automate Infrastructure Service Deployment
Associated System Software	
Tomost Application Server, Oracle 11g Servers Used in the Design:	
ASAC App Server, ASAC DB Server Select Target Data Center:	You can create new CSA service design based on a given infrastructure service that will be accommodated in the data center of your choics. This allows you to automate the infrastructure service deployment.
Amazon AWS	
Default CSA Server	
Previous Publish	

• Once the publishing is finished successfully, you can check the service design created in CSA.



Note: The relationship names and component icons are defined arbitrarily by CSA users. Therefore, the published service design could look slightly different from the one above.

Chapter 7: Surveys

This section covers the following topics :

- "Understanding Survey Definition" below
- "Starting New Survey" on the next page
- "Undertaking the Survey" on page 110
- "Keeping Track of Survey" on page 112
- "Reviewing Answers" on page 113
- "Taking a Self-Assessment Survey" on page 115
- "Monitoring and Managing Survey" on page 117

Understanding Survey Definition

A Survey Definition In Enterprise Maps consists of the questions in a survey. This Survey Definition artifact contains out-of-the-box survey definitions designed to help assess the possibility of migrating Application Components into Cloud.

Cloud Business Assessment

Survey for assessing the possibility of cloud migration from business perspective.

Cloud Technical Assessment

Survey for assessing the possibility of cloud migration from technical perspective.

Note: Only Administrator role can create or edit survey definitions. Survey Definitions can be accessed both from **Survey Definition** in Catalog UI and **Manage Scripts** in Administration UI.

Enterprise Maps	CATALOG REPORTS NAVIGATOR ADMI		
↔ User Management ∽ C	Configuration \checkmark Governance \checkmark Customization \checkmark		
General	+ / ×		
Surveys	🖸 Name 🔺	Applicable to Artifact	Artifact Selection Customization ID
, Reports & Portlets	Assign Servers/VMs to Infrastructure Services &	Infrastructure Service	infrastructureServiceArtifact
Data Sources	Cloud Business Assessment 🕹 🖋 Business survey for Application Component	Application Component	applicationComponentArtifact
	Cloud Financial Assessment 🕹 🖋	Application Component	applicationComponentArtifact
Data Import Definitions	Cloud Technical Assessment 🕹 🖋	Application Component	applicationComponentArtifact
Lifecycle	Collect Application Component Hardware Requirement	Application Component	applicationComponentArtifact

Starting New Survey

Once a survey is defined (i.e. Survey Definition artifact is created and previewed), a Survey Manager or Administrator can invite the owner or contacts of the artifacts to fill out the survey (Survey artifact).

A survey comprises of a list of artifacts, respondents and their responses.

Note: Only Survey Manager or Administrator can start a survey.

To start a survey, login as a user with Survey Manager role/credentials and follow the steps below:

1. Open Catalog Browser and click **Survey Definitions** under Content tab.

				Implementation and Migratio	on Content
Business Services Business Actors Business Roles Business Collaborations Business Collaborations Locations Data Centers Business Objects Contracts	A Application Functions Application Services Application Interactions Application Components Application Collaborations Application Interfaces Application Interfaces Application Collaborations Application Interfaces Application Collaborations Application Interfaces Application Application	Infrastructure Functions Infrastr	 Requirements 	☆ □ Deliverables ☆ Work Packages ☆ □ Projects ☆ □ Projects ☆ ⑤ Financial Planning ☆ ⑤ Project Financial Profile ☆ ⑤ Poplication Component Financial Profile ✔ Papelication Component Financial Profile	☆ Image: Contacts ★ Image: Contacts ★ Image: Contacts ↓ Image: Contacts
Contracts Business Processes Business Functions Business Interactions Business Events Representations Meanings Values Values Products	□ ★ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆	Server Groups Communication Paths Communication Paths Communication Paths Communication Paths Communication Deployment Specifications Infrastructure Services		 ✓ Lifecycle Planning Plateaus ♦ Gaps 	California Calif

2. Select a survey definition to start the survey.

a. If you are the Administrator, you may click **Edit** to change the following fields in the survey definition:

a. Applicable to Artifacts: artifact types this survey applies to.

b. Target Contact Roles: contacts under the survey artifacts who will be invited to take the survey. By default, all contacts of the survey artifacts are invited.

Note: Survey Manager is not allowed to access Edit function.

3. Click **Start Survey** and fill in the required information to begin with survey.

Cloud Technical Asses	sment				
Overview	► Start Survey 🖋 Edit				
Preview	Technical survey for Application Component				
Assessment Portfolio	Show more information Applicable to Artifacts: Application Compone	unt .			
Access Rights			er, Subject Matter Expert / Archited	ct, Technical Owner	
	Survey Designer: System				
	Executed/Running Surveys				
	You can manage individual ongoing surveys. Surveys answered by all the re	espondents or marked co	mplete are displayed in green and sur	rveys that are incomplete are o	displayed in yellow or n
	reached the timeline.				
	Right now you see all survey instances, Show only surveys started usin	g the 'Start Survey' wiza	ard.		
	Mark Completed X Cancel Survey				
	Name 1	Date Started	Expected Completion Date	Progress	Status
	Migrate Applications into Cloud - Technical Assessment - 2015	05/28/2015	12/31/2015	17/71	 Not Completed
	Migrate Applications into Cloud - Technical Assessment - 2016	05/28/2015	12/31/2016	13/2	 Not Completed
Start survey 'Cloud Tech	hnical Assessment'				
	d select the artifacts you wish the survey to be processed for. List of respond	ents is calculated and car	n be		
optionally notified over email. Click 'Preview	v' on the right to review the survey questions				
Show more information					

Start survey 'Cloud' Lechnical Assessment'	
You must enter some basic information and select the artifacts you wish the survey to be processe	or. List of respondents is calculated and can be
optionally notified over email. Click 'Preview' on the right to review the survey questions	
Show more information	
Name of the survey:	Cloud Technical Assessment
Expected Completion date: 03/10/2016	Preview
Message for the respondents:	Technical survey for Application Component
	This survey has been requested by <u>Administrator</u>
	Please fill in this survey by the end of March 10, 2016
	✦ Learn More_
Send Email Notifications	
Owner as respondent if no other contacts available	
Cancel Next	

4. Enter the name and click **Next**. Select the artifacts to be included in this survey.

elect the ar	/			n surveyed yet. You can switch the t	able to display all and furth	er filter the list	t. If you are missing	some artifacts, import them from	external sources.
-	Name 🔺	Version	Alias	Transformation Str	Domain	Rating	Package	Lifecycle Stage	Artifact Type
				T -	T -	T -	T -	T -	
Acronym	Analyst Researce	ch 0.2 odo orci et felis consequat at eu	ismod erat tempor.		Demo Example Doma.	*****		Candidate	Application Compone
	ASCENT DB	1.0		Transform	Demo Example Doma.	. 습습습습		Candidate	Database Schema
	🟠 ASCENT Web	1.0		Transform	Demo Example Doma.	. 습습습습		Candidate	J2EE Application
	☆ BE1	1		Analyze	Demo Example Doma.	. 습습습습		Retired	Application Compone
	☆ BE2	1			Demo Example Doma.	. 습습습습		Retired	Application Compone
	☆ BE3	1		Ignored	Demo Example Doma.	. 습습습습		Retired	Application Compone

Note: The filter **All that haven't been surveyed yet** is selected by default. You can select **All** to view artifacts that have been surveyed earlier.

- 5. Verify the counts of artifacts and respondents and if they are as expected. You can do the following if required:
 - Remove unwanted artifacts from the survey
 - Add or remove respondents

Click the **Finish** button visible at the bottom of the list.

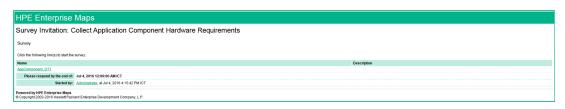
Start survey 'Cloud Financial Assessment'		
You are about to start a survey 'Cloud Financial Assessment' that:		
Surveys information about 4 artifact(s) Affects 8 people Each survey wizard contains 11 questions		
Email notifications to fill in the survey are sent out right after you click 'Finish'.		
Surveyed Artifacts		
You can see the list of artifacts to be surveyed below. You can also review the respondents, generated based	d on artifa	ct contacts and ownership.
Remove from Survey		Search 💿 🔾
Name 1	Version	Respondents
ASAC	1	○ Nicole Smith, Joseph Banks, Doris Wagner, Bev Bailey, Andy Miller, Dave Olson, Mary River
ASCENT	1	● Nicole Smith, ● Jack Foster, ● Joseph Banks, ● Doris Wagner, ● Bev Bailey, ● Andy Miller, ● Mary River
ASCENT DB	1.0	 Nicole Smith, South Joseph Banks, Doris Wagner, Bev Bailey, Andy Miller, Dave Olson, Mary River
ASCENT Web	1.0	 Nicole Smith, Source Joseph Banks, Doris Wagner, Bev Bailey, Andy Miller, Dave Olson, Mary River
		Displaying 1 - 4 of 4
Previous Finish		

Undertaking the Survey

You can respond to the survey in the following 2 ways:

• Via Notification Email: respond to an invite for survey through email by Survey Manager as given below:

a. Open your Inbox and look out for an email with the subject title "Survey Invitation: ..." sent by Enterprise Maps.



b. Open the link corresponding to the artifact name (for example : Agresso). The survey opens in a new window. You need to login to Enterprise Maps in order to fill in the survey.

Agresso Application Component				
		-in a survey for the 'Agresso' v steps you will be asked about some details		➔ Open in Catalog
	Name	Agresso		
	Version	3.1	Lifecycle Stage	Candidate
Cloud Business Assessment	Domain	Demo Example Domain	Owner	Nicole Smith
	Description	Acronym: AGAlias: AgressPurpose: Nullar	m scelerisque nunc sed nunc euism	od placerat.
Business survey for Application Component This survey has been requested by <u>Administrator</u>				
Please fill in this survey by the end of December 30, 2016				
Migrate Applications into Cloud - Business Assessment - 2016				
🔶 Learn More_				
				Start

Note: Your account must at least have the READ permission for the survey artifact, else you will just see an error message in the open window. If this happens contact your administrator.

- c. Answer the survey questions, then click **Finish** to complete the survey for that artifact.
- d. Repeat steps 1-3 to complete survey for other artifacts.
- Via a Survey Instance: respond to a survey directly on EM UI as given below:
 - a. Open the survey artifact you wish to undertake. Look for the surveyed artifacts you would like to respond to. Click your name in the respondents list to start filling out the survey.

Marget Conclusion	Enterprise Maps	CATALOG REPORTS NAVIGATOR ADMINISTRATION		new in t Domain Administrator Documentation
Overview Image: Completed Cancel Survey East Access Rights Mark Completed Image: Course Survey East Marke Completed Image: Course Survey East Status Net Completed Status Survey Definitions Courd Buildness Assessment Survey Definitions Courd Buildness Assessment Survey Definitions Courd Buildness Assessment Survey Definitions Dec 30, 2016 500 PM Survey Search	Artifacts 🗸 Create 🗸	Import ~	ជំ Favorites 🛛 Recent Do	cuments 📰 My Tasks 📋
Access Rights Magnet Applications into Cloud - Business Assessment - 2015 Status: Not Completed Survey Definition: Coud Business Assessment Survey Definition: Coud Business Assessment Survey Definition: Coud Business Assessment Survey Definition: Dec 30, 2015 550:11 AM Survey Completed Completion Date: Dec 30, 2015 550:11 AM Surveyed Artifacts: Dec 30, 2015 550:12 M Surveyed Artifacts Dec survey of the selected artifacts if you are no longer interested in filling the survey witzed for them. The status of an artifact in the survey is transmer. Surveyed Artifacts: Dec 30, 2015 550:11 M The let of the artifacts to be survey of the selected artifacts if you are no longer interested in filling the survey witzed for them. The status of an artifact in the survey is transmer. Surveyed Fillows: You may cancel the survey of the selected artifacts if you are no longer interested in filling the survey witzed for them. The status of an artifact in the survey is transmer. Surveyeed form Survey Search Name 1 Version AsSac 1 AsSac 1 AsSac 1 AsSac 1 AsSac 1 AsE Instance 1 <		nto Cloud - Business Assessment - 2016, version 1.0		Located in Default Domain no votes $ \star \star \star \star \star$
Name † Version Respondents Status ASAC 1 Administrator, Andy Miller, Dave Olson Not Completed ASCENT 1 Open in Catalog Not Completed ASE Instance 1 Remove Respondent Not Started		Migrate Applications into Cloud - Business Assessment - 2016 Status: Not Completed Survey Definition: Cloud Business Assessment Survey Lefinition: Cloud Business Assessment Survey Definition: Cloud Business Assessment Survey Definition: Dec 30, 2015 356:11 AM Expected Completion Date: Dec 30, 2016 500 PM Surveyed Artifacts The last of the artifacts to be surveyed follows. You may cancel the survey of the selected		artifact in the survey is
ASCENT 1 Open in Catalog Not Completed ASE instance 1 Remove Respondent Not Started				_
ASCENT 1 Not Completed			Open in Catalog	
Agresso 3.1 • Take Survey • Not Started				_
Billing Services 5.2 • Jack Foster, • O Dave Olson, • O Bev Balley • Not Completed CAD Surface 2 • Note Smith • Note Smith		Billing Services	5.2	 Not Completed

b. A Survey Manager or a user with 'write' permission for the current survey can also undertake the survey on behalf of other respondents. Simply, click the particular respondent's name and select the option **Take Survey on behalf of [respondent name]**.

Migrate Applicati ^{Survey}	ons into Cloud - Business As	sessment - 2016, version 1.0			Located in Default Don no votes 🚖 🚖 🚖
Overview	Mark Completed X Ca	ncel Survey Edit			
	Migrate Applications into Cloud - Busine	ess Assessment - 2016			
Access Rights	Status:	Not Completed			
	Survey Definition:	Cloud Business Assessment			
	Survey in Progress:	11/68			
	Start Date:	May 28, 2015 3:56:11 AM			
	Expected Completion Date:	Dec 30, 2016 5:00 PM			
	Surveyed Artifacts				
	Remove from Survey				Search 🛞 Q,
	Name ↑	Version	Res	Open in Catalog	Status
	ASAC	1	C	Remove Respondent on	
					Not Completed
	ASCENT	1	•	Take Survey on behalf of Mary River	
		1	c 0	Take Survey on behalf of Mary River	
	ASCENT				 Not Completed
	ASCENT ASE Instance	1	•	Mary River. O Nicole Smith	

Keeping Track of Survey

As a survey respondent and user you can keep track of the surveys that require your response via Survey Tasks. These tasks are created for each respondent in a survey right after the survey is started, or when a user is added into that survey as a respondent. The task is removed once a respondent finishes the survey or is removed from the survey.

Survey respondents can follow their tasks to complete the surveys. The survey tasks are available right on Catalog page and Task page.

Catalog	Transformation	Governance	Administratior
Business Layer	Cloud Transformation	Surveys	User Management
Capabilities & Functions Business Processes	Transformation Guide	Definitions Running Surveys	User Management Task/Batch Processing Integrations
Application Layer	Implementation and Migration Roadmap	Motivation	Settings
Application Components Application Services Application Interfaces & APIs	Projects Plateaus & To-Be	Proposals & Demands Drivers Goals	Customize
Technology Layer	Lifecycle My Tasks	Requirements	Viewpoints Data Model
Services & Deployments Servers	Processes	Policy & Compliance Reports	Policy Assertions Scripting
System Software Deployment Specs & Scripts	Analysis Impact and Dependencies	Principles Policies	Datasources
Recently Visited	Investment Diagrams	Favorite Policy Reports	Spreadsheet files EA Modeling Tools PPM & APM
Here is the list of catalog items you have visited in the past. Since you haven't visited any such item yet this list is now empty.	Surveys to Answer Migrate Applications into Cloud Migrate Applications into Cloud Migrate Applications into Cloud	Here you will see all policy reports that you will mark as favorite in the catalog. There are no such policy reports now.	CMDB CSA & Codar XML & JSON files HPE EM Federation

Tasks page

Artifacts Y Create Y Import Y		2	☆ Favorites 🛛 Recent Documents 🛛 ■ My Tas	iks
Tasks Survey Tasks	~			
Task	Artifact	Artifact Type	Created 🗸	
		T	T -	
Migrate Applications into Cloud - Financial Assessment - 2016	Oracle HRMS	Application Component	8/12/2015	
Migrate Applications into Cloud - Financial Assessment - 2016	Mason	Application Component	8/12/2015	
Migrate Applications into Cloud - Financial Assessment - 2016	VOMS DB	Application Component	8/12/2015	

Note: If a particular user does not have 'Read' permission to the survey artifact, the link to that artifact will not be available. See image below.

Tasks Survey Tasks	~		
Task	Artifact	Artifact Type	Created 🔻
Migrate Applications into Cloud - Business Assessment - 2016	F.A.Qs	Application Component	8/6/2015
Migrate Applications into Cloud - Business Assessment - 2016	ITIM	Application Component	8/6/2015
Migrate Applications into Cloud - Technical Assessment - 2015	F.A.Qs	Application Component	8/6/2015

Reviewing Answers

Once you complete a survey, you can review your answers and even redo the survey.

Review Survey:

- Open the survey instance
- Click the surveyed artifact you wish to review the answers for
- Select Review Answers

Migrate Applications i	nto Cloud - Business Assessment - 2016, version 1.0 -		Located in Default Don no votes 🚖 🚖 🚖
Overview	Mark Completed 🗶 Cancel Survey 🖋 Edit		
	Migrate Applications into Cloud - Business Assessment - 2016		
Access Rights	Status: Not Completed		
	Survey Definition: Cloud Business Assessment		
	Survey in Progress: 11/6		
	Start Date: May 28, 2015 12:56:11 AM		
	Expected Completion Date: Dec 30, 2016 2:00 PM		
	Surveyed Artifacts		
	The list of the artifacts to be surveyed follows. You may cancel the survey of the selectee. Completed' if all the respondents answer, 'Not Completed' when at least one respondent K Remove from Survey		Search Q
		Version Respondents	Status
	Agresso	3.1 O Nicole Smith	Not Started
	Open in Catalog	1 Administrator, O Andy Miller, O Dave Olson	Not Standard Not Completed
		Andy Miller. Q Jack Foster	
	Add Respondent		Not Completed
	Review Answers	1 O Mary River, O Nicole Smith	Not Started
	Billing Services	5.2 Sack Foster, Oave Olson, Bev Bailey	Not Completed

Redo the Survey:

• As one of the respondents, it is possible for you to redo the entire survey (assuming you have responded before) in the review dialog. Click **Take Survey Again**.

0	Question	Administrator	
	Financial Profile		
I V	/hat are the current annual hardware costs for hosting this application in your data cente	780000	
2 V	/hat are the current annual costs related to maintenance of this application? (This doesn'	650000	
3 A	re there some other costs related to this application?		
4 P	lease enter an estimate of these costs.	360000	
Ö	3rd Party Associated Costs		
5 V	/hat are the current annual 3rd party software license costs related to this application?	25000	
6 V	/hat are the current annual costs related to maintenance of this application billed by 3rd	12500	
•	Transformation		
7 lf	the application depends on a 3rd party software (database, middleware or similar) which	No	
8 C	an your organization accommodate the billing model offered by cloud providers?	Yes	
9 Is	it feasible to get a budget and other resources needed for the transformation?	Don't know	
-	Transformation Cost		
10 C	an you put an rough estimate of the costs of the labour work/additional software costs n	Yes	
11 P	lease enter an estimate of these costs.	75000	

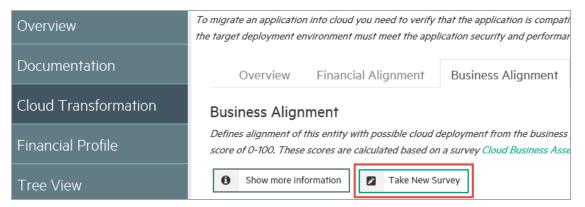
Taking a Self-Assessment Survey

Alternatively, as an artifact owner or contact, you can also fill out the survey for that artifact without having to wait for a Survey Manager to initiate it for you. There are two surveys designed out-of-the-box for self-assessment by Application Component's owner and contact.

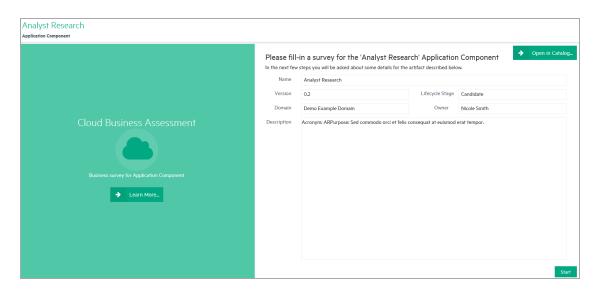
- In Business Alignment UI: survey 'Cloud Business Assessment'
- In Technical Alignment UI: survey 'Cloud Technical Assessment'

To fill out a self-assessment survey:

- 1. Open the Application Component view page.
- 2. Click the Cloud Transformation tab.
- 3. Navigate to Business Alignment or Technical Alignment tab.
- 4. Click Take New Survey button.



5. The survey opens in a new window. Click **Start** to begin answering the survey questions in the wizard.

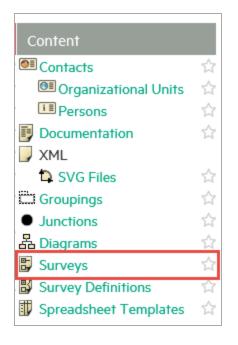


6. Click **Finish** to complete the survey.

Monitoring and Managing Survey

To monitor or manage surveys :

1. Open Catalog Browser and click **Surveys** under Content tab.



2. Select a Survey to monitor or manage. The Survey view page opens as follows:

Migrate Applications ir	nto Cloud - Business	s Assessment - 2016, version 1.0			Located in Default Domain no votes $ \star \star \star \star \star$		
Overview	Mark Completed	Cancel Survey 🖋 Edit					
Access Rights	Migrate Applications into Cloud -	Business Assessment - 2016					
Access Rights	Status:	Not Completed					
	Survey Definition:	Cloud Business Assessment					
	Survey in Progress:	11/68					
	Start Date:	May 28, 2015 12:56:11 AM					
	Expected Completion Date:	Dec 30, 2016 2:00 PM					
	Surveyed Artifacts						
		are no longer interested in filling the survey wizard for them. The status of an a and 'Not Started' when no respondents answer.	rtifact in the survey is				
	Remove from Survey				Search 💿 🔍 🛃		
	Name ↑		Version	Respondents	Status		
	Agresso		3.1	Nicole Smith	Not Started		
	ASAC		1	Administrator, O Andy Miller, O Dave Olson	Not Completed		
	ASCENT		1	Andy Miller, Ø Jack Foster	Not Completed		

- 3. As per your role, you can execute all or some functions in the Survey view page. For instance :
 - Catalog User can only view the status and progress of the survey.
 - Survey Manager and Administrator can additionally :

- Mark the survey as Completed.
- Cancel the survey.
- Remove artifacts from the survey if not completed.
- Edit survey information such as Description and Expected Completion Date.
- Add or Remove respondent to and from the survey.

Chapter 8: Collaboration

HPE EM is a collaborative platform enabling you to actively participate and provide information to other users throughout the service lifecycle.

This part contains the following topics:

Tasks

- "How to Use Comments" on the next page
- "How to Use Notifications" on page 121
- "How to Use Events" on page 123
- "How to Use Tasks" on page 125
- "How to Use Ratings" on page 126
- "How to Use Feeds" on page 127
- "How to Share Artifacts" on page 130

HPE EM provides the following collaboration features:

Comments

The Artifact View page provides a Discussion area where you can start threads and respond to other comments. For details, see "How to Use Comments" on the next page.

Notifications

You can send e-mail notifications about an artifact to specified stakeholders. For details, see "How to Use Notifications" on page 121.

Events

Events keep you up-to-date with changes to artifacts that you are a stakeholder in and user actions that may impact you. For details, see "How to Use Events" on page 123.

Tasks

Tasks provide you with updates for lifecycle and contract tasks assigned to you. For details, see "How to Use Tasks" on page 125.

Ratings

You can apply an individual rating to an artifact, contributing to an overall rating that enables other users to select the best artifacts. For details, see "How to Use Ratings" on page 126.

• Feeds

HPE EM provides artifact and search feeds that enable you to track changes and discussions about artifacts in your feed readers and in the Reports tab. For details, see "How to Use Feeds" on page 127.

Sharing

HPE EM provides a simple action to provide all users with read access to an artifact, making it visible across the whole user-base. For details, see "How to Share Artifacts" on page 130.

HPE EM is also a collaborative platform in combination with your development environments. HPE Software provides plug-ins for widely used IDEs that enable your developers to collaborate using the discovery and publishing features of HPE EM directly from their IDE.

How to Use Comments

HPE EM provides an artifact discussion forum where you can make comments about particular artifacts.

The Artifact Overview page includes a Discussion component right at the bottom showing the last few comments.

Discussion

Comments for Artifact (1 Comment) Last Comment: Administrator, 2:26 PM

Enter Discussion

Click a thread title to enter that discussion or click *Enter Discussion* to open the **Documentation > Discussion** sub-tab to see all the comments

You can browse all comments in the Artifact Details Discussion sub-tab.



You can organize the Artifact View Discussion sub-tab using **Show Thread** and **Show List** with an option to sort the list view by oldest or newest comment first.

Start a new discussion thread using Add Comment.

Tip: In the Add Comment dialog, click	+	to provide a reference link to another artifact in your
comment.		

Respond to a particular comment using by clicking **Reply** for that comment.

If these are no replies to your thread or comment, you can Edit and Delete your comments.

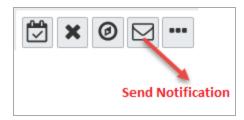
The Artifact Comments Feed context action provides a URL that you can use in feed readers or in the Reports Tab to keep up-to-date with any new comments about the artifact. For details, see "How to Use Feeds" on page 127.

How to Use Notifications

HPE EM enables you to send e-mail notifications to artifact stakeholders.

To Send Manual Notifications:

1. In the Artifact Details page Overview tab, click the **Send Message** context action for the artifact you want to send the notification for, to open the Send a Message page.



2. Select the recipients to notify.

Recipient	Description
Owner	The user, group, or role that owns the artifact. "How to Edit Artifact ownership" in the UG.
Maintainers	Users, groups, and roles groups with write permission for the artifact. For details, see "How to Edit Access Rights in the UG.
Contacts Users and organizational units associated with the artifact by the relationship or listed in the artifact stakeholder property. For detail "How to Manage Contacts" in the UG. The Contacts recipient gro refined into selectable contact roles.	
Other Recipients	Click Add Other Recipients and use the user, group, and role search feature to add any other required recipients.
Previous Stakeholders	Expand Show Advanced Options and select Include Recipients from Previous Versions to notify stakeholders from previous versions of the artifact about changes to a newer version. The stakeholders notified by this option match those for the current artifact version. For example, if Consumers is selected, then the consumers of previous versions are notified.

Notification Recipients

Note: The recipient options vary depending on the status of the artifact.

- 3. *Optional*: Change the subject for the mail if required.
- 4. *Optional*: Check **Lifecycle Status** to include a section containing current lifecycle status in the mail.
- 5. Enter the message text for the mail.
- 6. Click **Preview** to view a draft of the mail message.
- 7. Click **Send** to send the notification to the selected recipients.

The administrator can set up automatic notifications as part of the lifecycle process. For details, see "How to Define Automatic Actions" in the *Administration Guide*.

How to Use Events

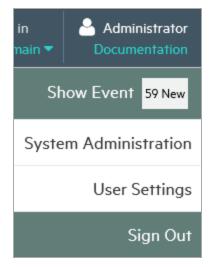
HPE EM keeps you up-to-date with all actions on artifacts that are relevant to you. Actions may appear in the Events lists because you performed them, or because they affect artifacts that you are a stakeholder for.

Events checker is disabled by default to keep up the server speed. However, the administrator can enable this checker by changing the value of platform.ui.userevent.notificationsEnabled system property to TRUE.

Caution: Enabling platform.ui.userevent.notificationsEnabled system property can result in slow performance.

After enabling the event checker, events information appears in the following places in the UI:

• New Events notification in the Profile Status section of all pages.



• Actions on individual artifacts displayed in the Artifact Details page Events tab.

The Events components in the Artifact Detail page Overview tab display the latest actions performed in HPE EM that are relevant to the user.

Overview											
	Actor: Collect All (Clear)										
Cloud Transformation	Event			Actor	Date 🔻	Туре					
	New comment reply o	n thread 'Artifact' has been added on Application Component 'Agr	New	Administrator	12:28 PM	Comments					
	O New comment thread	'Artifact' has been created on Application Component 'Agresso'.	New	Administrator	12:25 PM	Comments					
	© New comment thread	'Comments for Artifact' has been created on Application Compone	New	Administrator	12:15 PM	Comments					

• Here, events component displays actions performed on the artifact with a **More...** link to the latest events under main menu Reports tab.

Events	🚔 12 ×
Latest Events 🔊	
	لغ
X One or more artifacts were permanently deleted.	
by Administrator, Mar 17, New	
One or more artifacts were deleted.	
by Administrator, Mar 17, New	
Obmain was changed for one or more artifacts.	
by Administrator, Mar 10, New	
The owner was changed for one or more artifacts.	
by Administrator, Mar 9, New	
Governance was ended for one or more artifacts.	
by Administrator, Mar 9, New	
More	

You can customize the information the Events component displays.

To Customize the Events Component:

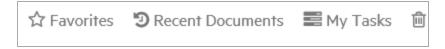
- 1. Click the tool icon in the Events component on the home page to open the Edit Configuration -Events dialog box.
- 2. Customize the following events parameters:

Edit Configuration -	Events ×
-	by the Events portlet and event notifications. You can define important events;
i.e. set event visibility.	
Number of Events:	5 ~
Domain:	O Current O All Domains
Event Notifications Enabled:	
Visibility	
Contracts:	O Show All 💿 Hide My Actions O Hide All
Lifecycle:	O Show All 💿 Hide My Actions O Hide All
Artifact Changes:	O Show All 💿 Hide My Actions O Hide All
Task Reports:	Show All ○ Hide My Actions ○ Hide All
Comments:	O Show All O Hide My Actions O Hide All
	Save Cancel

3. Click **Save** to apply your changes.

How to Use Tasks

As a user in HPE EM you may be required to perform actions related to contracts and the lifecycle of artifacts. Tasks may be assigned to you as an individual, a member of a group, as a user in a particular role, or because you are the owner of an artifact. The My Tasks component in the Catalog Homepage updates you with your latest tasks assignments.



Catalog Homepage My Tasks Component

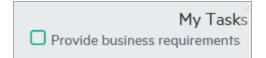
Task assignments come from lifecycle or as a result of a contract request. Click the task name to open the relevant page to view the lifecycle.

To view all your outstanding tasks, click My Tasks to open the Tasks page.

Tasks	Pending (All)	Located in:	ce 🔻	
	Pending (All)		0.11	6
Task	Lifecycle Tasks		Created -	Source
Define unsupp		ver 2016 Standard	Mar 9	Eifecycle Task
Define plan wher Define unsupp		Microsoft Windows Server 2016 Datacenter	Mar 9	≣ Lifecycle Task
Define plan when	the software version will be unsupported			
Deploy applica	tion into production environment	Central	9/28/2015	📰 Lifecycle Task
Deploy applica	tion into production environment	ASE Instance	9/28/2015	📰 Lifecycle Task

The Tasks page shows more details about each tasks and enables you to sort them by type or filter to find a particular task or artifact.

In addition to viewing all tasks assigned to you, Artifact Details pages contains task information specific to the artifact in the My Tasks component.



The My Tasks component enables you to complete a lifecycle task to view its details.

For all these task displays, clicking the task opens the appropriate page to perform the required actions depending on the task type.

Lifecycle Tasks

Perform a task assigned to you, your group, or your role as part of a lifecycle process.

Lifecycle Requests

Process requests for approval of the completion of a lifecycle stage for artifacts.

How to Use Ratings

HPE EM enables you to apply a rating score to artifacts. You can apply a rating to each artifact once and change your rating at any time.

The average rating is available in Artifact Detail pages and in tables of artifacts, enabling you to choose services based on their collective rating.



To Rate an Artifact:

- 1. Open the Artifact Details page.
- 2. Move the cursor over the stars and click a star to set your rating. The status next to the rating stars indicates the current status and indicates if you have previously rated the service.

Average ratings are available to filter and sort tables of artifacts. For details, see "Tables in the User Interface".

Servi	ces	All	All Nor	lin: I-Reference ▼ Filter ▼			
+		×					
		Name	Version	Domain	Rating 🔻	Package	Lifecycle Stage
				T -	T -	T -	T -
	☆	FinPlanner from Internet	1.0	Demo Example Domain			Candidate
	삸	Financial Review Service	1.0	Demo Example Domain	0 ***		Candidate
	☆	Project planning	1.0	Demo Example Domain	0 ***		Candidate
This serv		Product modeling consisting from all calculation of product calculating in FinPlanner1) Deposit product22	1.0 Loan products3) Pension calculator	Demo Example Domain	0 ****		Candidate
For indiv		Create New Proposal actor change of product parameters (loan product) for RECALCULATION delete prod	1.0 uct from simulation (saving product) f	Demo Example Domain or RESIMULATION add product to the simulationfor	OK SME actor char	Cancel	Candidate ers (loan product) for RE

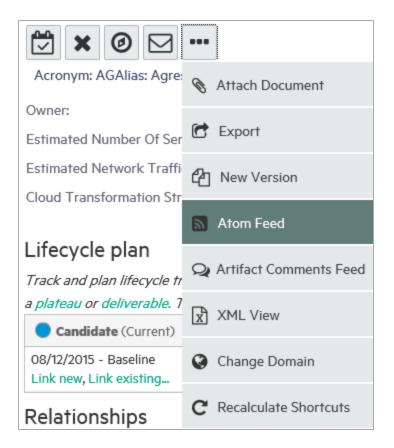
How to Use Feeds

HPE EM provides Atom feed support to enable you to track changes either with your own feed reader or using the Content Feed feature of the Reports Tab.

You can access the following feeds:

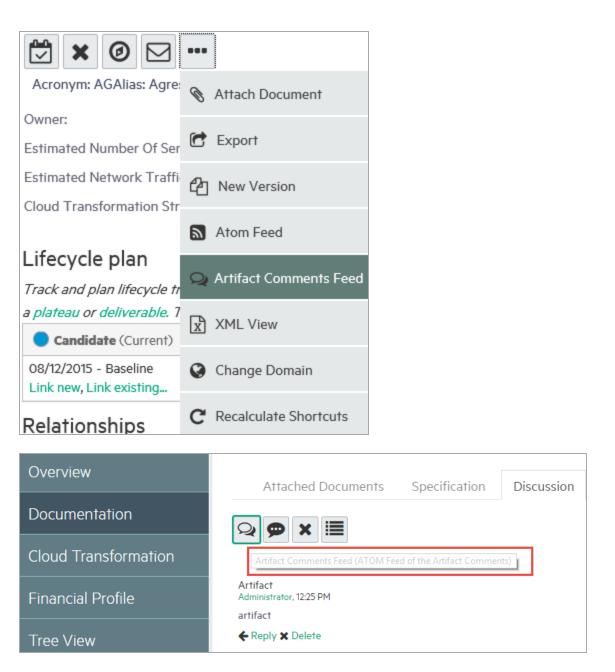
Individual Artifact Feeds

Track changes to a specific artifact. Use the **Atom Feed** context action from the Artifact Details page Overview or Details tabs to obtain the URL for the feed.



Individual Artifact Comment Feeds

Track the discussion about a particular artifact. Use the **Artifact Comments Feed** context action from the Artifact Details page Overview or Details tabs or the **Artifact Comments Feed** context action from the Artifact Details page Discussion section of the Documentation tab to obtain the URL for the feed.



Search Result Feeds

Use the Search URL provided with saved searches to create a custom search feed. A typical example would be to create a search feed for all services. This feed would then notify you about the creation of new services.

How to Share Artifacts

By default, the separation of the Catalog into domains and default security mean that artifacts are only visible to users who need to see them. However, there are situations where you want to make an artifact visible to all users, for example, when a service goes into Production.

HPE EM provides a simple share mechanism which enables the administrator or the owner of an artifact gives all users read access to an artifact, making it visible to everyone. Share may be performed on an individual artifact or in bulk.

Note: The default functionality of sharing uses the system#registered group which represents all users who access HPE EM. The administrator can change the users that can access shared artifacts. For details, see "How to Change the Sharing Principal" in the *Administration Guide*.

To Share an Artifact:

- 1. Open the Artifact Details page for the artifact and select the Access Rights tab.
- 2. Click the **Share** context action to open the Share dialog box.
- 3. *Optional*: Expand **Advanced Options** and select **Include Subartifacts** to also share sub-artifacts in the artifact aggregate.

Share	×
Grant Read Only access to every use Advanced Options	r?
Include Subartifacts	
Share Cancel	

4. Click **Share** to make the artifact visible to all users.

To Share a Set of Artifacts:

1. From a table of artifacts, select the artifacts to change, open the **Edit** context menu, and select **Share** to open the Share dialog box.

+	* *					
	Properties		Version	Domain 🔺		
FinPla Key ci	Change Owner		1.0	Demo Example Domain		
	Change Access rights	g process. The solution will analyze actual portfolio of services used by client, evaluate ternal sales and partners to provide optimal set of products, improve and simplify the s				
inforn	Change Domain	about suitable				
D Buildi	Share	Reorganization g & Collection Management, D	1.0 evelop Resource Partne	Demo Example Domain rship Requirements, Manage Ca		
	Unshare	le Management	1.0	Demo Example Domain		
D Having	Partner Management g a Partner management system	m and partner training	1.0	Demo Example Domain		

- 2. *Optional*: Expand **Advanced Options** and select **Include Subartifacts** to also share sub-artifacts in the artifact aggregates as in step 3 above.
- 3. Click **Share** to make the selected artifacts visible to all users.

Chapter 9: Excel/CSV File Export and Import

Enterprise Maps provides the capability to export and import data in spreadsheet formats. This is useful if you want to transfer spreadsheets or relational databases data from other systems to HPE EM. You can also edit multiple data sets efficiently in spreadsheet format in offline mode and upload the data back to Enterprise Maps in one step.

The following operations are supported by Spreadsheet Import UI:

- Export an artifact collection to a CSV file
- Export multiple artifact collections to a ZIP file (which contains CSV files and each of them contains a collection of artifacts)
- Import an artifact collection from a CSV file
- Import multiple artifact collections from an XLS or XLSX file

Note: Some operations are not available for Spreadsheet Import Command Line. For more details, see "CSV Import and Export Tools" in *Customization Guide*.

To populate a simple collection from a spreadsheet file, a good practice to begin with is to create one artifact in the HPE EM collection by using the Catalog, open the collection list, select it, and then use the *Save as CSV* function to access the CSV file from HPE EM. You can then open the result in a spreadsheet editor such as Excel, add more data in the specified form as per the first record, and then use the *Excel/CSV import* to publish all the data inside HPE EM.

You can also store successfully imported spreadsheet files as templates for future use. For more information, go through below mentioned topics:

- "Exporting CSV Files" on the next page
- "Importing Spreadsheet Files" on page 135
- "Managing Template" on page 138
- "Spreadsheet Template Options" on page 141

Exporting CSV Files

To export CSV data from HPE EM:

- 1. Open the Catalog in a browser.
- 2. If the collection you are interested in is empty, create the first artifact so that the exported CSV file contains an example data row.
- 3. Open the collection you are interested in either by searching for it in the Search box or by opening the collection from the Catalog panel. For example, to open the Business Function collection, select *Capabilities & Functions* from the Catalog panel list and perform your search by clicking the Filter menu to open the Search page. Then you can the Business Function value from the Artifact Type selector and click Search.
- Option A: Using the Menu Bar Search Field

Artifacts · Create · Import · Principle Version 1.0 IM y Tasks		Ente	erprise Ma	ips	CATALOG		ADMINISTRATION Q Business Function ×	Administrator Documentation
	I	ñ	Artifacts 🗸 Create 🖌 Import 🗸		Import ~		Separation of Susiess functions Principle Version 10 Applications remain within the limits of business functions	

Option B: Using the Catalog Search Page

Search										
business function										
Artifact Type:	< Any > ~			Keywords:			~			
Last Modified:	Any Time 🗸 🗸			Domain:		< All D	omains > v			
Add Criteria Search Save _ Load Clear										
Name 🔺		Artifact Type	Version	Owner	Domain	Rating	Package	Last Modifie		

4. After you have located and opened the collection you are interested in exporting, click the More Actions button (e.g., the button with three dots next to the Edit and Delete buttons), and click Save as CSV. This will start the download of data in CSV format from the table to your local computer.

Business Functions All		Located in: Filter All Non-Reference ▼ Filter	•		
+ 🗁 🗙 🚥					
Nan C Export	Version	Domain	Rating	Package	Lifecycle Stage
Governance		T -	τ-	T -	τ.
	1.0	Demo Example Domain			Candidate
Access Control	1.0	Demo Example Domain			Supported

5. Open the downloaded CSV file in a spreadsheet editor, such as Excel. The first row is a header that specifies the mapping of data in HPE EM. It helps you to learn how to link the data in specific

File		ne Inse	rt Page	Layout	Formulas Dai	ta F	Review View	1				
Ê	🔏 Cut	-	Calibri	* 1	1 · A A	= =	≡ ≫-	📑 Wrap	Text	Genera	il	*
					e & Center 🔻		%,	00. 00. 00. ♦ 00.				
	Clipboard	Ea.		Font	Gi .		Alignme	ent	6	i I	Number	Gi.
	A1		• (=	<i>f</i> ∗ busi	inessFunctionS	tatus						
	А	В	С	D	E		F		G			
1 b	usinessFi	revision	domainId	owner	description	ke	eyword		revisionCr	name		
2		2	defaultDo	admin	Manage all fir	ancial	and policy asp	pects of t	admin	ASSETS I	MANAGE	MENT
3												
4												
5												
6												
7												
8												
9												

columns to properties, relationships, etc.

6. Remove unnecessary and redundant headers. For example: delete all columns but keep the following headers: businessFunctionStatus, revision, domainId, owner, description, keyword, revisionCreator, name. Add new data to complete the collection in spreadsheet, and when you are finished, make sure to Save as CSV. Once you do this, you are ready to Import back into HPE EM.

X	📙 🌖 - (°	× . –	_					_	_	_	_	busine	essFu	nctior	nArtifa	ct -	Microsoft
F	ile Hoi	ne Inse	ert Page	Layout	. 1	Formulas D	ata	Review	v View	V							
	Cut		Calibri		* 11	· A A	=	= =	≫,-	📑 Wrap	Text	Gene	eral			¥	≤ ₹
Pas	te 🛷 Forn	nat Painter	BIU			<u> </u>	E	33			e & Center 🔻		/0	,	€. 0 .00		Conditio Formattir
	Clipboard	Ę.		For		Gi.			Alignme	ent	5	i	Nur	nber		- Ga	
	H14		· (*	f _x	Anal	yze Usage Re	cords	5									
	А	В	С	[)	E			F		G						н
1	businessF	revision	domainId	owne	er	description		keywor	rd		revisionCr	name					
2		2	defaultDo	admi	in	Manage all f	inanc	ial and p	policy as	pects of t	admin	ASSET	S MA	NAG	EMEN	T	
3		2	defaultDo	admi	in	Provide assu	irance	e to seni	ior mana	gement a	admin	AUDIT	MAN	AGE	MEN	Г	
4		4	defaultDo	admi	in						admin	Access	Con	trol			
5		2	defaultDo	admi	in	Record all pe	ertine	ent custo	omer dat	a. Ex	admin	Acquir	e Cu	stom	ier Da	ta	
6		3	defaultDo	admi	n						admin	Adviso	ory Ei	ngine	2		
7		2	defaultDo	admi	in	Identify					admin	Alloca	te &	Insta	ll Res	our	e
8		2	defaultDo	admi	n	Issue identif	iers f	or new :	services	and to m	admin	Alloca	te Sp	ecifi	c Sen	/ice	Paramet
9		2	defaultDo	admi	in	Ensure that a	a cons	sistent c	ustomer	risk asse	admin	Analyz	e &	Mana	age Cu	usto	mer Risk
10		2	defaultDo	admi	in	Analyse &an	np; Re	eport S/	P Interac	tions pro	admin	Analyz	e &	Repo	rt S/F	Int	eraction
11		2	defaultDo	admi	n	Perform all r	neces	sary ana	lysis on	closed re	admin	Analyz	e &	Repo	rt on	Cust	omer
12		2	defaultDo	admi	in	Analyse and					admin	Analyz	e Re	sour	ce Pe	rfor	mance
13		2	defaultDo	admi	in	Assess the e	ffecti	iveness	of the se	ervice by	admin	Analyz	e Se	rvice	Qual	ity	
14		2	defaultDo	admi	in	Generate re	ports	on usag	e record	s based o	admin	Analyz	e Us	age F	Recor	ds	
15		2	defaultDo	admi	in	Ensure that t	the cu	ustomer	receives	s an invoi	admin	Apply	Prici	ng Di	scour	nting	g & Reba
16		2	defaultDo	admi	in						admin	Appro	ve Pi	roduo	ct Bus	ines	s Case

Importing Spreadsheet Files

To import spreadsheet files, first decide what type of information and relationship data you want to import and also how you would like to view the results of your import mapped into HPE EM repository.

Preparing Spreadsheet Files

To import the spreadsheet files successfully, you must follow the HPE EM spreadsheet syntax. Do one of the following to obtain a valid spreadsheet file and then start adding data into it:

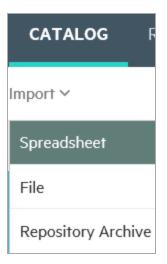
- Use *Download Template to Get Started* to download from a spreadsheet artifact. For more details, see the section *To download Excel/CSV Import Template* in "Managing Template" .
- Use Save as CSV. For more details see, "Exporting CSV Files".
- See EM_HOME/client/demo/import folder to refer to examples of CSV and XLS/XLSX files. For example: for XLS/XLSX spreadsheet syntax, follow the path EM_ HOME/client/demo/import/excel/from-ui/*.xlsx.

Using UI

HPE EM provides the option to directly import the Excel/CSV file from the Catalog UI.

To do so, follow the instructions given below:

1. Go to the Catalog home page. Click the Import menu and select Spreadsheet.



 In the Spreadsheet Import page select the CSV/XLS/XLSX file to drag and drop from your local folder. Alternatively, click anywhere in the box to manually upload.

Spreadsheet Import	
() You can prepare data in XLS/XLSX spreadsheet files and import them into HPE EM later on. You can also export/generate data from other systems and import them into EM in CSV format.	
Download Template to Get Started	
Upload Data	Select File(s) Settings
Drop file(s) to upload or click to pick manually	
Start Import	

3. Click Settings to view more options and Show More Information button to view their usage.

Download Template to Get	Started		
Upload Data		Select File(s)	Settings
You can override the default behavious Show more information	r of the import so that you can overcome problems with different input formats and redefine the behavior of overwriting data that already exists in HPE EM.		
Artifact Type:	<autodetect> ~</autodetect>		
Column Separator:	· · · · · ·		
Value Separator:	1		
Date Format:	yyyy-MM-dd HH:mmss		
Artifact Processing Mode:	• Create new and update existing • Create new only		
Relationship Processing Mode:	Additive Force CSV given values		
Property Processing Mode:	Ignore empty values in the import file Force data removal according to the import file		
Start Import			

- 4. Select the Artifact Type from the drop down list. If artifact type is <Autodetect>, the artifact type will be determined by CSV file names or Excel sheet names as follows:
 - a. Matches artifact type in SDM. For example: applicationComponentArtifact
 - b. Starts with artifact type in SDM and a dash (-). For example: *applicationComponentArtifact-sample*
- 5. Click Start Import. The Import Spreadsheet report appears.

Enterprise Maps CATALOG REPORT	S NAVIGATOR ADMINISTRATIC				Q Search	Create new in Create new in Create new in Default Domain V Documentation
Artifacts Y Create Y Import Y					습 Favorites 🕲 Re	ecent Documents 📰 My Tasks 💈
Import Spreadsheet						
inlahed (started by 🛦 Administrator, 6/29:01 PM) 5 successful.						
Name	Туре	Domain	Owner	Origin	Status 🔻	Processed At
Artifact 'Tomcat' import. Artifact 'Tomcat' has been imported. Performed actions 'CREATE'.	System Software	Default Domain	& Administrator	ApplicationDeploymentMod	✓ Created	6:29 PM
Artifact 'Java' import. Artifact 'Java' has been imported. Performed actions 'CREATE'.	System Software	Default Domain	& Administrator	ApplicationDeploymentMod	✓ Created	6:29 PM
Artifact 'MySQL' import. Artifact 'MySQL' has been imported. Performed actions 'CREATE'.	System Software	Default Domain	Administrator	ApplicationDeploymentMod	✓ Created	6:29 PM
Artifact 'serv1_app' import. Artifact 'serv1_app' has been imported. Performed actions 'CREATE'.	Server	Default Domain	Administrator	ApplicationDeploymentMod	✓ Created	6:29 PM
Artifact 'serv2_db' import.	Server	Default Domain	Administrator	ApplicationDeploymentMod	✓ Created	6:29 PM

Using Command Line

If you are an administrator or have administrator role privileges you will find the CSV Importer command line tool in the EM_HOME\client directory. If you are not an administrator, you can ask your administrator to archive the tool and share it with you so that you can access it.

To get the CSV Importer command line tool and be able to run it:

- 1. Unzip the archive and open a command-line shell and change to the client/bin directory. The tool depends on java 1.8, so make sure you have access to the java command at the PATH variable.
- 2. Call csvimport.bat or csvimport.sh to get help messages displaying the command-line options.
- Type the command with at least host, user, password, sdmName and file parameters to your environment. For example: "csvimport -host http://hpedemo/em -user admin -password changeit -file businessFunctions.csv -sdmName businessFunctionArtifact"
- 4. The CSV import of Business Functions from CSV file starts. The tool will log all events related to the progress and status of the import.
- 5. When you refresh your browser, you can view the results imported into the HPE EM collection.

Note: Importing a huge spreadsheet file may fail because of Out Of Memory error. To overcome this problem, increase the heap memory as below:

- 2MB excel file 100MB heap
- 10MB excel file 1.5GB heap

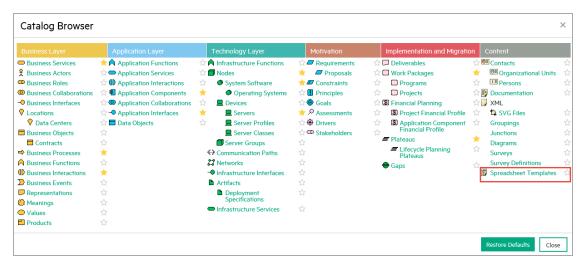
For more details, see "CSV Import Tool" in the Administration Guide.

Managing Template

The Spreadsheet Templates provide the initial structure for data to be imported using Import Excel/CSV function. As a Catalog user, you can create such templates for your own usage or share with others. Administrator can change access rights for Excel/CSV Import Templates as with other artifacts.

To create a new Excel/CSV Import Template:

1. Open the Catalog Browser and then click **Spreadsheet Templates**. In the next screen click **Open** create dialog for this artifact.



Spreadsheet Templates
Open create dialog for this artifact

 Enter the name of the template and select the artifact types this template applies to in Applicable to Artifacts section and click Save.

Spreadsheet Template Create new									
Name: *	Business Function CSV Template								
Description:	P • B I U Ø Metric • M • IIII •								
Version: Applicable to Artifacts:	10 Add								
Documentation Image: Save Cancel									

3. In the template view page, click the **Click here to upload a file** link to add the Excel/CSV file for this template.

Business Function C Spreadsheet Template	SV Template, v	ersion 1.0	
Overview	A Warning: This ar	tifact has no data content attached. Click here to upload a file.	
	X 0		
Tree View	Attach Data Co	ntent	×
	Source:	• File O URL	Browse
Access Rights	Server Folder:	/defaultDomain	Select
	Location after Upload:	http://16.154.113.26:80/em/platform/rest/location/defaultDomain	
Show More			Upload Cancel

4. Click **Browse** and select the Excel or CSV template file and then click **Upload**.

Note:

- You can use 'Save as CSV' function in artifact collection or search pages to produce CSV files and use them as CSV templates. For details, see "Exporting CSV Files" on page 133.
- To create Excel/CSV template manually (for example: using Microsoft Excel), refer to "CSV Import Tool" in *Customization Guide* to get help on syntax for Excel/CSV files.

Name	Date modified	Туре	Size
applicationComponentArtifact.csv	14/07/2015 20:17	Microsoft Excel Co	1 KB
applicationFunctionArtifact.csv	14/07/2015 20:17	Microsoft Excel Co	1 KB
applicationServiceArtifact.csv	14/07/2015 20:17	Microsoft Excel Co	1 KB
🔊 businessEventArtifact.csv	14/07/2015 20:17	Microsoft Excel Co	1 KB
businessFunctionArtifact.csv	14/07/2015 20:17	Microsoft Excel Co	1 KB
ataObjectArtifact.csv	14/07/2015 20:17	Microsoft Excel Co	1 KB
🔊 plateauArtifact.csv	14/07/2015 20:17	Microsoft Excel Co	1 KB

5. To verify the template created, open 'Spreadsheet Templates' collection.

Spreadsheet Templates	×	ated in: Non-Reference ▼ Filter ▼		
+ 🖄 ×	· ·			0
Name	Version	Applicable to Artifact	Domain	Rating
Application Component CSV Template CSV template for importing Application Components.	1.0	Application Component	Default Domain	
Application Deployment Template XLSX template that lef you create a single application deployment with its servers and installed system software.	1.0	Infrastructure Service	Default Domain	
	1.0	Application Component	Default Domain	
C Assic Data Import Template XLSX template that let you import basic data into HP EM so that you can utilize the reporting capabilities of HPE En	1.0 terprise Maps.	Application Component, Application Component Fi	Default Domain	
Business Function CSV Template	1.0		Default Domain	
	1.0	Person	Default Domain	

The Spreadsheet Import UI provides a convenient way to download the template of a specific artifact type.

To download Excel/CSV Import Template:

1. Go to **Import** tab, click **Spreadsheet** and then click the **Settings** tab.

Spreadsheet Import	
You can prepare data in XLS/XLSX spreadsheet files and import them into HPE EM later on. You can also export/generate data from other systems and import them into EM in CSV format.	
Download Template to Get Started	
Upload Data	Select File(s) Settings

2. Select an artifact type. The **Upload Data** is automatically changed to **Upload Data about...** to inform the selected artifact type for downloading template or uploading data.

Spreadsheet Import					
() You can prepare data in XLS/XLSX spreadsheet files and import them into HPE EM later on. You can also export/generate data from other systems and import them into EM in CSV format.					
Download Template to Get Started					
Upload Data about Business Function(s) Select File(s) Settings					
You can override the default behavior of the import so that you can overcome problems with different input formats and redefine the behavior of overwriting data that already exists in HPE EM.					
Show more information					
Artifact Type:					
Column Separator:					
Value Separator:					

3. Click **Download Template to Get Started**. You can then add data into the saved template and import the Excel/CSV file back to Enterprise Maps to publish data.

Note:

• If such a template is not available, the template of higher-level artifact type, if exists, is used instead. An example of template hierarchy is as below:

Artifact > Application Layer > Application Component > J2EE Application.

- If the template for J2EE Application does not exist, then template for Application Component is used and so on.
- In the case of no available templates, users are prompted to download a default template for Application Component (as in the image below).

Spreadsheet Import					
You can prepare data in XLS/XLSX spreadsheet files and import them into HPE EM later on. You can also export/generate data from other systems and import them into EM in CSV format.					
Download Template to Get Started					
Upload Data about Application Collaboration(s) Select File(s) Settings					
You can override the default behavior of the import so that you can overcome problems with different input formats and redefine the behavior of overwriting data that already exists in HPE EM. Show more information					
Artifact Type: Application Collaboration					

Spreadsheet Template Options

While working with Excel templates, you may enter data which is non-importable. You can ignore such meta data by specifying instructions in the spreadsheet import function.

Add the following options at the beginning of the excel sheet:

Column 1		Option	Option	
Keyword	Option Name	Parameters	Parameters	Description

Option	ignore			Ignore this sheet
Option	sdmName	<artifact type<br="">in SDM></artifact>		Import data as this artifact type
Option	skipRowWhenEmptyFirstCell			Skip data row if first column is empty
Option	constantColumn	<property in="" sdm=""></property>	<property value=""></property>	Add this property for all imported artifacts
Option	calculateFormula	auto/true/false		auto - recalculates a cell value that is defined by a formula. If the formula is not supported, use the cell's last value. This is the default value. true - fails if unable to calculate formula false - uses only the cell's last value
				Note: Data referenced by formula must be in the same spreadsheet file. Referencing data in a different spreadsheet file is not supported.

Ignored rows

• Rows before the header and the first column starting with capitalized text is ignored (except above 'Option' rows).

• Rows after the header and the first column that is empty are ignored if *Option skipRowWhenEmptyFirstCell* is set.

Ignored columns

• Columns with empty header are ignored.

	A	В	С	D
1	Option	sdmName	applicationComponentArtifact	
2	Option	constantColumn	description	Imported from spreadsheet
3	Option	skipRowWhenEmptyFirstCell		
4	Option	calculateFormula	auto	
5	Component Name	Version	Ignored	Subcomponents
6	name key=true	version		composed Of target = application Component Artifact property = name
7	Demo Component 1	1		
8	Demo Component 2	3		
9		This line is ignored because of the skipRowWhenEmptyFirstCell Option		
10	Demo Composed Component	3		Demo Component 1 Demo Component 2
11				

Chapter 10: Extension for Sparx Systems EA

HPE EM integrates with the widely used Sparx Systems Enterprise Architect data modeling tool via extension module. The Sparx Systems EA is a fully integrated data modeling environment for you to use with HPE EM. The HPE EM user is able to synchronize data models bi-directionally using the extension.

Installing Extension for Sparx Systems EA

You can install the HPE EM Extension for Sparx Systems EA to extend your local installation of Sparx Systems EA to synchronize models with the HPE EM server.

You must already have Sparx Systems EA installed. For more details of supported Sparx Systems EA versions, see "Supported Product Integrations" in *Installation and Configuration Guide*.

To install the HPE EM Extension for Sparx Systems EA:

- 1. Close Sparx Systems EA if it is running.
- 2. Run the installer hpe-em-sparx-3.20.msi.
- 3. Click Next until the final wizard panel appears, and then click Finish.

WARNING: Extension for Sparx Systems EA stores the HPE EM user password(s) using a Triple DES password encryption method. User passwords are stored outside the HPE EM server, thus bypassing HPE security policies. This could cause security issues such as decryption or corruption.

Note: To avoid error when installing Sparx Systems EA into a Windows system folder, disable User Access Control (UAC) in Windows Control Panel.

To configure proxy in HPE EM Sparx Add-In:

Change the default setting of HPE EM Sparx Extension, to connect to HPE EM server from Sparx client via proxy.

- 1. Close Sparx Systems EA if it is running.
- Go to HPE EM Extension data folder on your local machine: C:\Users\{USER} \AppData\Roaming\HPE EM Extension for Sparx EA\.
- 3. Open the file settings.xml.
- 4. Edit this file by adding proxy setting element under the "<repositories>" node:

<proxy proxyEnabled="True" proxyUrl="http://127.0.0.1:12000" requiresAuth="True" username="username" password="password" />

Add your proxy URL instead, and the required authentication if you have.



5. Save the changes.

Supported Archimate® version

HPE EM Sparx Systems EA mapping configuration supports only synchronization elements having Archimate® 2.0 stereotypes. Both Archimate® 1.0 and 2.0 stereotypes are available in Sparx Systems EA. Make sure you choose the correct Archimate® stereotypes in your architecture.

Uninstalling Extension for Sparx Systems EA

Before you install a new version of the HPE EM Extension Sparx Systems EA, it is helpful to uninstall any existing version on your system.

To uninstall follow the steps mentioned below:

- 1. Close Sparx Systems EA if it is running.
- 2. Open the Control Panel > Programs > Programs and Features.

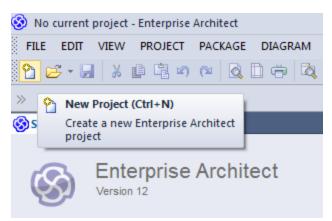
3. Select the program from the list, and then click **Uninstall**.

Control Panel Home	Uninstall or change a program											
View installed updates	To uninstall a program, select it from the list and then click Uninstall,	To uninstall a program, select it from the list and then click Uninstall, Change, or Repair.										
Turn Windows features on or off	Organize ▼ Uninstall Change Repair											
Install a program from the network	Name	Publisher	Installed On	Size	Version							
		Contract Contracts		10.0								
	Control France (Control)	And a second sec										
	Control Topo Topo 11 (2018)	And a second sec										
	Concept Congress (11)	Section Colleges										
	Readout Radial Ultras	Reading Constants										
	Concernation of the second	Canal Manufacture										
	and the second	1000000										
	Company in State	Speec Taxabana										
	Paulita (Sant 1981)	The Name										
	and the state of t	Manual constant										
	 Strapping Country 	through the										
	and the second second	Standard Contract, Company,										
	All the basedon lighted to Though light	Manufally Provident Company,										
	And Consultant Manager	Standard Technol. Company										
	Contraction in the second	Postal Taplac. Inc.										
	and the second design of	Standard Contract Company										
	and the second s	Phone State Conception	1.11.100									
	and the states in party of	Standard Contact Company										
	A REAL PROPERTY AND A REAL PROPERTY AND	Number Content Company										
	18 Official Constants	Number Content Company										
	HPE EM Extension for Sparx EA	Hewlett Packard Enterprise	12/9/2015	1.82 MB	3.00							
	and the second base from the	and in section of the										
	a martin i contra l'ante	termination of the second second										
	R tould be ingenerative	term Comparison		10.000	1							

Connecting Extension for Sparx Systems EA to EM

Once the installation for HPE EM Extension for Sparx Systems EA is complete, you can connect to Enterprise Maps in the following manner :

1. Create or open a project in Sparx Systems EA.



[EXT	ENSIONS	WINDOW	HELP	
-		ArcGIS		•	🝓 🖊 🖡 🖽 🖽
		ODM		+	
i		GML		+	
1		NIEM		+	
Ť		Eclipse		×	
l		HPE Ente	rprise Maps	+	Synchronize with EM
l		Visual St	udio	+	Import Diagram from EM
1		Import		•	More Synchronization Actions
		Publish		•	Settings
		MDG Tec	hnologies		About HPE EM Extension
		Add-In W	/indows		
1		Manage	Add-Ins		

2. From the main menu, click Extensions > HPE Enterprise Maps > Settings.

The HPE Enterprise Maps Settings window appears as below.

Repository used for Import/Export: Name: Repositories No repository defined Purpose of this project Document Base-line architecture Document particular plateau of a target architecture Document deliverables of a project Select Automatic Synchronization Schedule Select Enable automatic synchronization of packages under version control (SVN or similar) Synchronize every day at: 00 = Options Warn about use of ArchiMate 1.0 Enable element/diagram locking Enable SVN automatic checkout 	HPE EM Extension Project Settings	
No repository defined Purpose of this project Document Base-line architecture Document particular plateau of a target architecture Document deliverables of a project Select Automatic Synchronization Schedule Enable automatic synchronization of packages under version control (SVN or similar) Synchronize every day at: 00 * Keep deleted elements Options Warn about use of ArchiMate 1.0 Enable element/diagram locking Enable SVN automatic checkout	Repository used for Import/Export:	
Purpose of this project Document Base-line architecture Document particular plateau of a target architecture Document deliverables of a project Select Automatic Synchronization Schedule Enable automatic synchronization of packages under version control (SVN or similar) Synchronize every day at: 00 - : Variant constraints Options Varian about use of ArchiMate 1.0 Enable element/diagram locking Enable SVN automatic checkout	Name:	
 Document Base-line architecture Document particular plateau of a target architecture Document deliverables of a project Select Automatic Synchronization Schedule Enable automatic synchronization of packages under version control (SVN or similar) Synchronize every day at: 00 + : 00 + Keep deleted elements Options Warn about use of ArchiMate 1.0 Enable element/diagram locking Enable SVN automatic checkout 		No repository defined
 Document particular plateau of a target architecture Document deliverables of a project Select Automatic Synchronization Schedule Enable automatic synchronization of packages under version control (SVN or similar) Synchronize every day at: 00 + : 00 + Keep deleted elements Options Warn about use of ArchiMate 1.0 Enable element/diagram locking Enable SVN automatic checkout 	Purpose of this project	
 Document deliverables of a project Select Automatic Synchronization Schedule Enable automatic synchronization of packages under version control (SVN or similar) Synchronize every day at: 00 + : 00 + Keep deleted elements Options Warn about use of ArchiMate 1.0 Enable element/diagram locking Enable SVN automatic checkout 	O Document Base-line architecture	
Automatic Synchronization Schedule □ Enable automatic synchronization of packages under version control (SVN or similar) Synchronize every day at: 00 ▼ : □ Keep deleted elements Options ☑ Warn about use of ArchiMate 1.0 ☑ Enable element/diagram locking ☑ Enable SVN automatic checkout	Occument particular plateau of a target architecture	Select
 Enable automatic synchronization of packages under version control (SVN or similar) Synchronize every day at: 00 + 00 + Keep deleted elements Options Warn about use of ArchiMate 1.0 Enable element/diagram locking Enable SVN automatic checkout 	Document deliverables of a project	Select
Warn about use of ArchiMate 1.0 Enable element/diagram locking Enable SVN automatic checkout	Enable automatic synchronization of packages under version control (SVN or Synchronize every day at: 00 ->	r similar)
Image: Construction of the second	Options	
Enable SVN automatic checkout	Warn about use of ArchiMate 1.0	
	Enable element/diagram locking	
OK Cancel	Image: Image	
		OK Cancel

3. Click the Repositories button to define a repository. The Create new Repository window appears

as below.

-	Create new Repository – 🗖 🗙							
Server Information Enter HPE EM Base URL, username and password. If you are using HPE EM virtual appliance, use the URL http://127.0.0.1/em. The default admin password is 'changeit'								
HPE EM Base URL Username	http://localhost:80/em admin							
Password								
	Back Next Finish Cancel							

4. Enter HPE Enterprise Maps URL with the credentials and click **Next**. A list of the available Sparx EA repositories on the Enterprise Maps server is generated. Select a repository in the domain where you would like Sparx EA to be synchronized, and click **Finish**.

-	Create new Repositor	y – 🗆 🗙
Select Repository Select a Repository from HF	PE EM Server	
Name Default Sparx EA Synchroniza Demo Domain Sparx EA Sync Global Sparx EA Synchroniza	chronization	Domain Default Domain Demo Example Domain Top-level Domain
-	Back Next	Finish Cancel

5. The newly added repository is automatically set as the default repository for all the import, export and synchronization actions.

-	HPE EM Settings – 🗖 🗙
Repositories Settings Cold	ors Settings
Default Sparx EA Synchro	nization at "http://iwfvm01381.hpswlabs.adapps.hp.com:8080/em" in "Default Domair 🗸 Edit Delete
Properties	
Name *	Default Sparx EA Synchronization at "http://iwfvm01381.hpswlabs.adapps.hp.com:8080/em" in "Default Domain" d
Base URL *	http://iwfvm01381.hpswlabs.adapps.hp.com:8080/em
HPE EM Name/UUID *	Default Sparx EA Synchronization
User	admin
Password	•••••
Local Directory	$\label{eq:c:Users} \end{tabular} C: \end{tabular} Users \end{tabular} where the the tension for Sparx EA vepositories \end{tabular} with the tabular tension of tabular tensi$
	Set Repository as Default
Save Changes	Cancel Add Close
L	

Click **Close** to exit Settings window.

Synchronize Data Between SparX Systems EA and EM

HPE EM SparX add-in supports synchronization of data between SparX project and Enterprise Maps repository server. The following are the functions to synchronize data:

1. Synchronize with EM

This function exports all the changes from SparX project to HPE EM and also imports the changes of existing elements on SparX project from HPE EM.

EXTENSIONS	WINDOW	HELP		
ArcGIS		+		
ODM		F		
GML		+		
NIEM		+		
HPE Ent	erprise Maps	•	Synchronize with EM	
Import		•	Import from EM	►
Publish		•	More Synchronization Actions	►
MDG Te	chnologies		Settings	
✓ Add-In \	Vindows		About HPE EM Extension	
Manage	Add-Ins			

Note: This function does not import new artifacts in EM.

2. Import from EM

This function allows you to import selective individual artifact from EM to SparX Project.

				<u>-03</u> 0 may	- COD						-					
ER	EXT	ENSIONS	WINDOW	HELP												
		ArcGIS		×												
		ODM		×							~	•	x	Proje	ect E	Brow
		GML		×							~	_	Þ	2	2	2 2
		NIEM		•						_		N		+		HPI
		HPE Ente	rprise Maps	•	2	ynchroni	ze with EN	4								1.0
		Import		+	I	mport fro	m EM)		Impo	rt Arl	ifact			
		Publish		+	N	More Sync	chronizatio	on Actions	•		Impo	rt Dia	agran	1		
		MDG Tec	hnologies		5	Settings									±	
	~	Add-In W	/indows		ļ	About HP	E EM Exter	ision								
٦		Manage	Add-Ins												÷	
	_				,											

a. Import Diagram - imports the selected diagram and all its artifacts to SparX project.

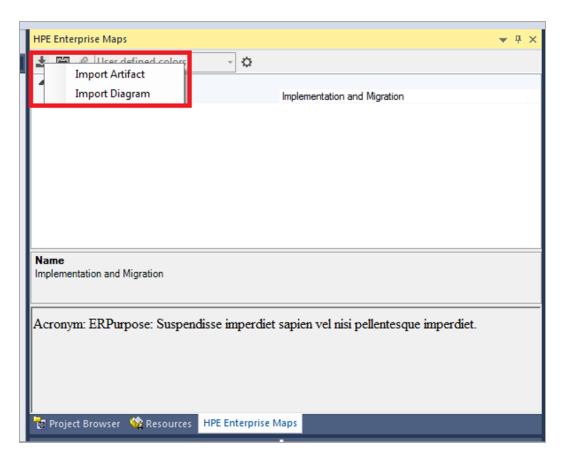
Note: You must ensure to configure the repository to import the selected diagram and its artifacts.

b. Import Artifact - searches the artifacts directly from HPE EM and then imports the selected artifact to SparX project.

irch to import readable artifact(s) from EM					
arch Term:	Sear	ch By: 📝 Nar	me 📝 Type 📝 Lif	ecycle Stage 👿 Domain 👿	Package 📝 Version
Name Name	Туре	Version	Lifecycle Stage	Domain	Package
<pre><noname></noname></pre>	Junction			Demo Example Domain	
<pre> <noname></noname></pre>	Junction			Demo Example Domain	
0.0 APQC General PCF 5.2	Business Process	1.0	Development	Demo Example Domain	
1.0 Develop Vision and Strategy (10002)	Business Process	1.0	Production	Demo Example Domain	
1.1 Define the business concept and long-term vi	Business Process	1.0	Development	Demo Example Domain	
1.1.1 Assess the external environment (10017)	Business Process	1.0	Production	Demo Example Domain	
1.1.2 Survey market and determine customer nee	Business Process	1.0	Production	Demo Example Domain	
1.1.3 Perform internal analysis (10019)	Business Process	1.0	Production	Demo Example Domain	
1.1.4 Establish strategic vision (10020)	Business Process	1.0	Production	Demo Example Domain	
1.2 Develop business strategy (10015)	Business Process	1.0	Production	Demo Example Domain	
1.2.1 Develop overall mission statement (10037)	Business Process	1.0	Development	Demo Example Domain	
1.2.2 Evaluate strategic options to achieve the o	Business Process	1.0	Deprecated	Demo Example Domain	
1.2.3 Select long-term business strategy (10039)	Business Process	1.0	Production	Demo Example Domain	
1.2.4 Coordinate and align functional and proces	Business Process	1.0	Production	Demo Example Domain	
1.2.5 Create organizational design (structure, gov	Business Process	1.0	Candidate	Demo Example Domain	
1.2.6 Develop and set organizational goals (10042)	Business Process	1.0	Production	Demo Example Domain	
1.2.7 Formulate business unit strategies (10043)	Business Process	1.0	Production	Demo Example Domain	
1.3 Manage strategic initiatives (10016)	Business Process	1.0	Retired	Demo Example Domain	
1.3.1 Develop strategic initiatives (10057)	Business Process	1.0	Production	Demo Example Domain	
1.3.2 Evaluate strategic initiatives (10058)	Business Process	1.0	Production	Demo Example Domain	

You can search the available artifacts by Name, Version, Lifecycle Stage, Artifact Type, Artifact Domain and Package. Use the Page Size to specify the number of artifacts to be displayed in a single page for a search result. You can then use the pagination buttons at the bottom of the window to navigate through the pages of search result.

You can also import your diagrams and artifacts from HPE EM add-in window.



To enable the HPE EM add-in window, check the **Add-In Windows** option from the **EXTENSIONS (EXTENSIONS > Add-In Windows)**.



3. More Synchronization Actions

This function allows you to export/import only the changed artifacts or full export/import of the artifacts.

→ ×
4 4

The following are the options:

- a. Import Changes imports all the changes of existing artifacts in SparX Project from EM repository (excludes new artifacts from EM).
- b. Export Changes exports all the changes from SparX Project to EM repository (includes new elements in SparX Project).
- c. Full Import imports all shared artifacts from EM repository to SparX Project.
- d. Full Export exports all elements on SparX Project to EM repository.
- 4. Automatic Synchronization Schedule

HPE EM SparX add-in allows you to schedule the synchronization with EM repository. Each time the scheduler is run, all the changes in EM repository and SparX project are synchronized. For more information, see "Scheduling Automatic Synchronization" below.

Scheduling Automatic Synchronization

You can configure a Sparx EA project to synchronize with EM on daily basis at a fixed time. To enable automatic synchronization, configure an EM repository and then set the Automatic Synchronization Schedule as represented below.

HPE EM Extension Project Settings	
Repository used for Import/Export:	
Name:	Repositories No repository defined
Purpose of this project	
O Document Base-line architecture	
Ocument particular plateau of a target architecture	Select
O Document deliverables of a project	Select
Automatic Synchronization Schedule Enable automatic synchronization of packages under version control (SVN or Synchronize every day at: 00 Keep deleted elements	similar)
Options	
Warn about use of ArchiMate 1.0 Warn about use of Arc	
Enable element/diagram locking	
Enable SVN automatic checkout	
	OK Cancel

Once the synchronization is over, a log file is created in the following path %*AppData*%*HPE EM Extensions for Sparx EA**log* (prefixed with 'autosync').

Note: For automatic synchronization to work, the Sparx EA project must be open at the scheduled time and user intervention must be avoided.

Note: HPE EM SparX add-in allows you to enable/disable SVN automatic checkout in setting window.

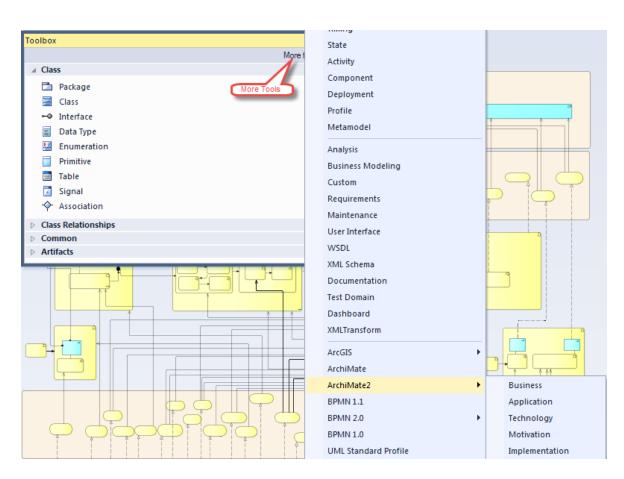
Basic Modeling with Sparx Systems EA

When building data models in HPE EM, Sparx Systems EA users can access Archimate 2.0 elements using the following steps:

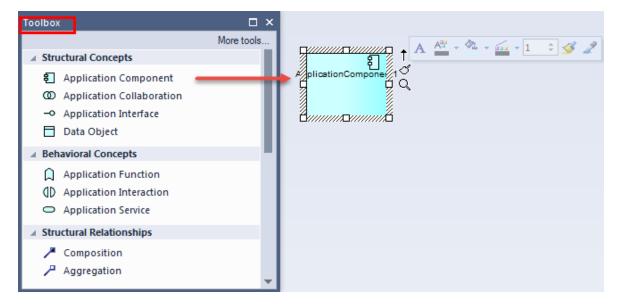
1. In the main menu click **Diagram > Toolbox** to display the diagram toolbox.

DIAGRAM	ELEMENT	TOOLS	ANALYZER	EXTENSIONS
New			C	trl+Insert
Proper	ties		F	5
Find in	n Project		S	hift+Alt+G
Toolbo	х		А	lt+5
Pan ar	nd Zoom		C	trl+Shift+N
Visual	Filters			
Layout	Tools			
Appea	rance			•
Advan	ced			•
Lock				
Alterna	ate Views			•
Swimla	anes, Matrix	and Kanb	an	
Visible	Relations		C	trl+Shift+I
Save			C	trl+S
Save Ir	nage to File.		C	trl+T
Save Ir	nage to Clip	board	C	trl+B
Snap t	o Grid			۰.
Zoom				•
Layout	Diagram			

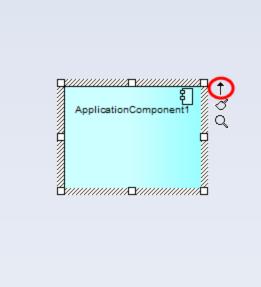
2. To display elements of Archimate 2.0 layer click **More tools**, and then select the layer for your model.



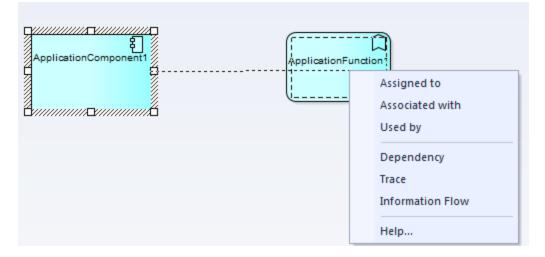
3. You can create new elements by dragging them from the Toolbox to a working diagram.



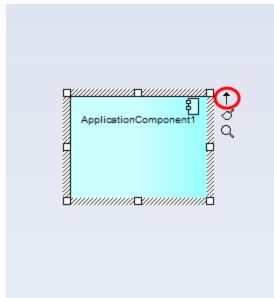
4. In a working diagram, you can create a link between elements by dragging the arrow (quick linker) from a selected element to another element.



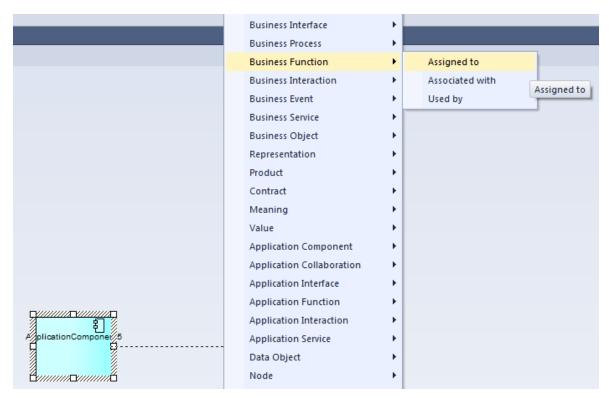
5. After linking elements, Sparx Systems EA will ask for a link type. Define the relationship between elements using the link type menu.



6. You can create a new element together with a link by dragging the arrow from a selected element to an empty area of your diagram.



7. Sparx Systems EA prompts you for a target element type and link type after you stop dragging the arrow.

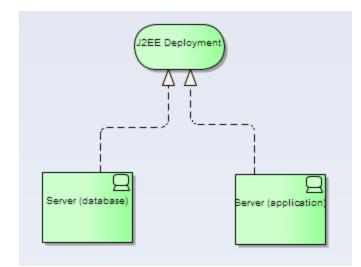


8. Sparx Systems EA opens a dialog that allows you to specify element properties. After you click **OK**, the element is created along with the link.

Building Reference Model for Cloud Transformation

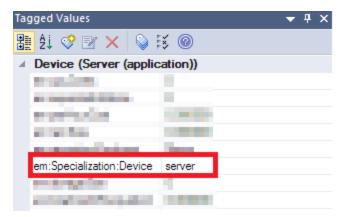
Reference model (or deployment model) in Enterprise Maps represents the required infrastructure of an application to be deployed on to different platforms. A reference model can be abstract and suitable for any platform, or can be specific to a particular platform (for example: Cloud). A reference model can also be further fine-tuned to a specific Cloud such as HP Cloud or Amazon AWS.

To build a reference model follow the steps mentioned below:



1. Create an Infrastructure Service and link the required Devices using *Realizes* relationship.

2. In **Tagged Values** window of Device, select **server** in the Specialization field for all Devices. This synchronizes the Devices as Servers into Enterprise Maps.

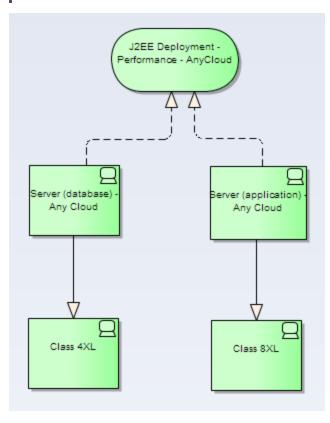


3. Additionally, define preferred Server Class(es) for each Server in the reference model using

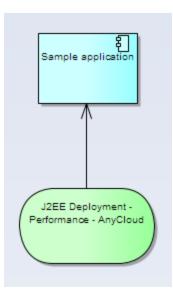
Specializes relationship.

Note:

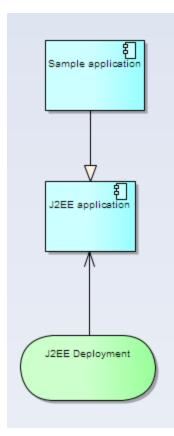
- You can also define Server Class required by the application later in its overview page in Enterprise Maps.
- Server Classes already available in EM can be imported from Enterprise Maps.



4. Define usage of this reference model by the application component linking through *Uses* relationship.



Or, making the application component *Specializes* another application that *Uses* this reference model.



5. Export these reference models to Enterprise Maps.

Synchronizing Deleted Artifacts

Over a period of time, administrators might delete some of the artifacts in EM. The problem arises, when a Sparx EA project containing deleted artifacts is synchronized with EM. The synchronization can detect this inconsistency and show the below message prompting the user to take action on deleted artifacts.

1. Artifact(s) that is/are deleted in EM but existing in SparX Project.

The following **Confirm Artifact removal** window shows a list of artifacts that were deleted in EM but are existing in SparX project.

V	Name	Stereotype	Artifact Uuid
V	123456	ArchiMate_ApplicationComp	fe774b82-c90e-422a-8e3e-880e1121fccc
V	ApplicationComponent1	ArchiMate_ApplicationComp	c175951a-7c8e-442b-bc44-7a47f313261
1	ApplicationComponent2	ArchiMate_ApplicationComp	1f3a870d-6574-457a-91da-5e684aa66a1
V	ApplicationComponent3	ArchiMate_ApplicationComp	73069462-8fae-4301-91ed-1673152a624
1	ApplicationComponent4	ArchiMate_ApplicationComp	0971b07f-8dbd-4ccc-834c-7412a351649
V	ApplicationComponent5	ArchiMate_ApplicationComp	9e867aab-40fe-4e2c-8edc-f30189e4b272
V	ApplicationFunction1	ArchiMate_ApplicationFunction	72d46426-1ba6-4b84-b8c3-20e8224aa7.
V	ApplicationFunction2	ArchiMate_ApplicationFunction	e9b2b419-a427-4aa0-8fdb-9106c548be4
V	ApplicationFunction3	ArchiMate_ApplicationFunction	Ofec290a-bf00-4faa-88cd-c9f10b0372c8
V	ASAC	ArchiMate_ApplicationComp	88734afe-06da-4ff2-b811-2d696a571bb2
V	ASAC App Server	ArchiMate_Device	29e376f3-79a4-4794-85ac-580f97cd1bea
V	ASAC Backup Tool	ArchiMate_ApplicationComp	54305e7d-5833-4711-8064-1520195a13.
1	ASAC DB	ArchiMate_ApplicationComp	9e51e015-8ed8-4548-8c4d-1c97c9b266.
V	ASAC DB Server	ArchiMate_Device	19f24c29-c639-4681-bab2-e9a04407fbf5
V	ASAC Deployment (2 nodes_00)	ArchiMate_InfrastructureServ	e57add4e-0c43-486d-93b5-3df663ab6e6
1	ASAC Production Deployment (Production, detailed description)	Diagram	686866b8-d3c8-4005-8c5b-e44093b8fcf2

The following options are available for the user:

- Remove Selected: removes artifacts from Sparx EA project also.
- Keep All: keep artifacts in Sparx EA project and restore them in EM.
- 2. Artifact(s) that is/are existing in EM but deleted in SparX Project.

The following **Confirm artifact removal** window shows a list of artifacts that were deleted in SparX Project but are existing in EM.

onfirm artifact removal			
One or more elements are deleted in project but still existing in EM. To remove remote elements, select them and click "Remove selected" button. To keep these elements in EM, click "Keep all".			
V	Name	Stereotype	Artifact Uuid
V	Advisory	ArchiMate_ApplicationFunction	1bb1d718-e006-4cfa-9c89-8ceeddc11f55
V	Business Proposal	ArchiMate_ApplicationFunction	0f0ef89d-bbfb-4da6-9aee-cd66948cb8fd
V	Client Goals	ArchiMate_ApplicationFunction	74867108-628b-40fc-9fad-ffbc11e2eb57
			Remove selected Keep all

The following options are available for the user:

- Remove Selected: removes artifacts in EM also.
- Keep All: keep artifacts in EM.

Element/Diagram Locking

HPE EM Extension for Sparx Systems EA provides a locking mechanism to assist Sparx EA users who work concurrently on the same elements/diagrams, either within Sparx EA or HPE EM.

Locking does cause certain intermittent interruptions for the user. However, the benefit is far more utilitarian, in terms of protecting data integrity.

Prerequisites

In order to take advantage of the locking, please ensure the following:

- Locking must be enabled in project settings.
- Elements, diagrams or the entire project must be synced to the same EM server, using the same

Sparx EA repository.

HPE EM Extension Project Settings	- 🗆 🗙			
Repository used for Import/Export: Name: Default Sparx EA Synchronization at "http://hpdemo:8080/em" in "Default Domain" domain	✓ Repositories			
Purpose of this project	No repository defined			
Document Base-line architecture Document particular plateau of a target architecture	Select			
O Document deliverables of a project	Select			
Automatic Synchronization Schedule Enable automatic synchronization of packages under version control (SVN or similar) Synchronize every day at: 00 v Keep deleted elements				
Options Image: Construction of the second				

How it works

• When you open a diagram or edit an element using properties window or project browser, the lock is triggered for that particular element/diagram.

ApplicationComponent : Ap	plicationComponent1			×
Properties General Requirements Constraints Scenarios Related Files Links	ApplicationComponent 1	Stereotype: Status: Alias: Keywords: Author: Complexity: Language: Version: Phase:	ArchiMate_ApplicationComponent	
		Package: Created: Modified: Main Adva	ASAC 12/10/2015 2:11:41 PM 12/10/2015 2:22:30 PM nced Tags Cancel Apply Help	

- You can then release the lock after you complete your work by syncing the edited element/diagram to EM again. This propagates the changes made by you and allows other users to begin their work on the same element/diagram.
- In case the edited element/diagram is not synced with EM, other users receive the below warning
 message when they attempt to open the diagram or while they edit the element during the locking
 period.



- If you choose **Edit Anyway**, the changes for this element/diagram become indeterminable. The last user, who syncs the changes with EM, overwrites the changes done by previous users.
- If you click **OK**, you are unable to edit the element/diagram until the lock is released. However, data integrity is assured.

• The lock is auto released after a lapse of 30 minutes, if there is no further editing from the user who triggered the lock. The other users can then start their work on the same element/diagram.

Diagram Synchronization

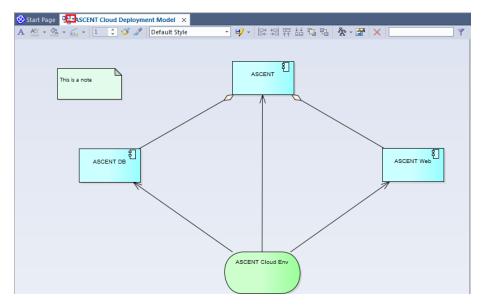
HPE EM Extension for Sparx Systems EA uses different techniques to detect the changes made to a diagram. During the synchronization between EM and Sparx EA, only that diagram is synced with EM. However, there are some unsupported cases when the extension cannot detect the changes made to a diagrams. In such cases, ensure to sync the modified diagrams manually.

The following are the unsupported cases:

1. **Policy compliance update**: a diagram is not treated as modified when you update the compliance status of an artifact belonging to that diagram.

HPE	HPE Enterprise Maps 🗸 🕈 🗙			
ŝ	🔗 Compliance highlight 🔻 🔅			
4	Overview			
	Name	ESB		
	Version	1.0		
4	Policy Compliance			
	Synchronized on	(Dbl. Click to Refresh)		
	No Report			
	Synchronized on (Dbl. Click to Refresh)			

2. Changes that do not trigger the unsaved state of a diagram: any changes on the diagram that do not turn it into the unsaved state (see image below). For example, editing a note or modifying an



element properties are not considered as modified diagram.