# **HP Enterprise Maps**

Software Version: 3.00 Windows and Linux Operating Systems

User Guide



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# Chapter 1: Using HP EM

HP 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 44	Explains how to view related artifacts in graphical mode.
"Reports" on page 46	Explains how to view, print reports and customize the dashboard.
"Architecture Transformation " on page 60	Explains how to use architecture management to manage architecture changes.
"Cloud Transformation" on page 70	Explains how to use Cloud transformation UI to manage applications' migration into Cloud.
"Surveys" on page 91	Explains how to start, undertake, manage and monitor surveys.
"Collaboration " on page 102	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 113	Explains how to export and import spreadsheet data.
"Extension for Sparx Systems EA " on page 122	Explains how to use the Extension for Sparx Systems EA.

# Chapter 2: Catalog

The HP 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.

*	$\widehat{m igodoldsymbol {m eta}}$	\$	
Administration	Governance	Transformation	Catalog
User Management	Surveys	Cloud Transformation	Business Layer
User Management Task/Batch Processing	Definitions Running Surveys	Transformation Guide	Capabilities & Functions Business Processes
Integrations Settings	<b>Motivation</b> Proposals	Implementation and Migration Roadmap Projects	Application Layer Application Components
Customize Customize UI	Drivers Goals	Plateaus & To-Be	Application Components Application Services Application Interfaces & APIs
Viewpoints Data Model	Demands & Requirements	<b>Lifecycle</b> My Tasks	Technology Layer
Policy Assertions Scripting	Policy & Compliance Reports	Processes	Services & Deployments Servers
Datasources Spreadsheet files	Principles Policies	Analysis Impact and Dependencies	System Software Deployment Specs & Scripts
EA Modelling Tools PPM & APM CMDB	Favorite Policy Reports Here you will see all policy reports that	Investment Diagrams	Recently Visited Analyst Research
XML files HP EM Federation	you will mark as favorite in the catalog. There are no such policy reports now.	Surveys to Answer Migrate Applications into Cloud - Fin Migrate Applications into Cloud - Fin Migrate Applications into Cloud - Fin More	ASCENT Cloud Financial Assessment Cloud Technical Assessment Application Cost Diagnostic Task Application Cost Diagnostic Task Agresso
og.	Here you will see all <b>policy reports</b> the you will mark as favorite in the catalo	Surveys to Answer Migrate Applications into Cloud - Fin Migrate Applications into Cloud - Fin Migrate Applications into Cloud - Fin	Analyst Research ASCENT Cloud Financial Assessment Cloud Technical Assessment Application Cost Diagnostic Task Application Cost Diagnostic Task

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.

Ø	Enterprise Maps	Catalog	Rep	oorts	Navig	gator	Adı	ministration
ñ	User Management 💌	Configuration	Ŧ	Governa	nce 🔻	Custo	mizat	ion 🔻
Adm	inistration			Lifecy	cle Proc	cesses		
				Techni	ical Pol	icies		
				Data Ir	ntegrity	/ Constra	aints	
	Name 🔺	Descript	ion	Assert	ions			
Note:	However, Administration pa	nel is only visible	e to ad	Iministrat	ors.			

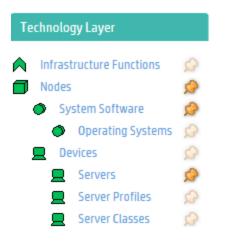
# Catalog Browser

The HP 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**.



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.

Ø) E	nterprise Maps
ñ	Artifacts 🔻 Create 🔻 Ir
	Business Services
	Data Centers
	Business Processes
	Business Interactions
	Application Components
	Application Interfaces
	Nodes
	System Software
	Servers
	Work Packages
	Plateaus
	Show More

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

erver	S	All	۹ Filter •				
	ATTENT	*					
•		Name -	Version	Domain	Rating	Package	Lifecycle Stag
	$\dot{\mathbb{T}}$	00144FA9533A_l2sun23-z1	1.0	Demo Example Domain	*****		
		00144FA9533A_l2sun23-z2	1.0	Demo Example Domain	*****		
		00144FA9533A_l2sun23-z3	1.0	Demo Example Domain	*****		
Ulindows 2		2k332ddmidev,w2k3autodev R2 Server Enterprise Edition	Service Pack 2	Demo Example Domain	*****		
Ulindows(#	☆ R) Serve		5.2.3790	Demo Example Domain	*****		
HP-UX		almond	B.11.23 U	Demo Example Domain	*****		
Ulindows(#	었 R) Serve		5.2.3790	Demo Example Domain	*****		
		anasser	1.0	Demo Example Domain	*****		
Lorem ipsu		ap100vm6.c0a.com Lor sit amet, consectetur adipiscing elit.	1.0	Demo Example Domain	*****		
Sed ornare		ap101vm7.c0a.com a at ante bibendum ac rhoncus erat rutrum.	1.0	Demo Example Domain	*****		
4.4.1	Page	1 of 122 🕨 📔 🤐 Hide descriptions Change Page Size					

4. To customize your view, you can sort, filter, and manage columns. You can use controls at the bottom of the collection page to control the page size and amount of description displayed.



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



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

Servers	All	▼	Filter 🔻

Keywords:		•
Last modified:	Any Time	•
Domain:	< All Domains >	v

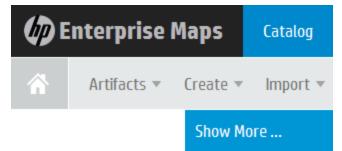
Specify your own search criteria using the form below.

# Creating Artifacts

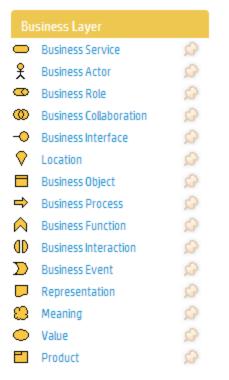
You can use HP EM to create new artifacts, and the attributes and relationships that impact those artifacts.

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 Funct	tion
Name: *	STRATEGY & PLANNING
Description:	₿ <i>Ⅰ</i> <u>∪</u>   <del>4.</del> •   注 는 本 本 王 重 ] F
	A business function for strategy & 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



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.

	ifacts			
Enter	text to search			
fact Type:	Documentation			
words:	•			
Add Crite	eria Search Clear			
	Name 🔺	Artifact Type	Version	
		Artifact Type Documentation	Version 1.0	

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 Documen	t Refere	nce	×
Document URL			
Type:	Optional	< No Value >	•
Link Text			
Advanced Options 🚖			
Keywords:	Optiona		v
		Separate keywords with commas.	
		Add	d

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 Document					
Source:		File O URL	Br	owse	
Туре:	Optional	< No Value >	×		
Server Folder:		< No Value >			
Location after Upload:		Business Requirements			
Advanced Options 🔻		Detailed Design			
		Functional Specification			
		Installation Instructions			
		Technical Specification			
		User Manual			
		Analysis			
		Project Plan			

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.

STRATEGY & PLANNING Business Function		
Overview	🖍 🗙 🙆 🏩	
Documentation	A business function for strate	egy & planning decisions
Tree View	Owner: Domain Id:	Administrator
Lifecycle	Version:	1.0 0
	Relationships	
Discussion	Composed Of:	Link new, Link existing
	Fully Automated By:	Link new, Link existing
Categories	Used Application Architecture:	Link new, Link existing
	Realized Business Services:	Link new, Link existing
Specification	Used Business Services:	Link new, Link existing
specification	Accessed Business Objects:	Link new, Link existing
	There are additional rarely used r	elationship types that are not defined on this artifact vet. Show them all

# Searching for Artifacts

HP 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.

Ø	interprise Maps	Catalog	Reports	Navigator	Administration	Q Enter text to search in catalo	og	) <u>'</u>	admin Default Domain ♥
ŵ	Artifacts 👻 Create 👻	Import 🔻				Favorites 🔻	Recent Documents 🔻	My Tasks	Recycle Bin

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.

Search									
T finance									
Artifact Type:	< Any >	v							
Keywords:		v							
Last Modified:	Any Time	v							
Domain:	< All Domains >	v							
Add Criteria Search	Save Loa	dClear							
/ ×									
🗆. Name 🔺		Artifact Type	Version	Consum	Owner	Domain	Rating	Packa	Last Modified
🔲 😭 Collecting Fina	nce Information	Business Fu	1.0		💄 Admi	Demo Exampl	****	Busin	Oct 8
Asset Class: TransactionalInternal A architecture.Definition Risk: Require		ategic Match: Direct ach	ievement of a		tvantage: No clien				Jun 16 I result in loss of competitive
🗆 😭 Corporate Fina	nce System (APAC)	Application	1.0		💄 Admi	Demo Exampl	****		Jun 16
🗆 ☆ Corporate Fina	nce System (APA	Application	1.0	No	💄 Admi	Demo Exampl	****	Applic	Oct 8
📋 👷 Finance Review	v	Application	1.0		💄 Admi	Demo Exampl	*****	Applic	0ct 8
Acronym: FINSYSAlias: FinSysPurpo		Application	2.2	No	💄 Admi	Demo Exampl	*****	Applic	Oct 30

- 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	
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.

Save Search				
✓ Search saved successfully.				
You can access it any time by navigating to this address:				
http://iwfvm01367.hpswlabs.adapps.hp.com:8080/em/web/service- catalog/catalog/advancedSearch?searchId=86961791-6fb3-11e4-be6d-86961790be6d				
Close				

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



# 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 actions related to individual artifacts.

Each artifact contains a large amount of detail, so 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.

<b>fin-planner-1.0.ear</b> Artifact		
Overview	/ × 0	
Documentation	Version: Owner:	1.0 O
Tree View	Domain Id:	Demo Example Domain
Lifeeuele	Relationships	
Lifecycle	Deployment Package of:	ASCENT
	Stored Data Objects:	Link new, Link existing
Discussion	Accessed by Services:	Link new, Link existing
	Associated with:	us5678vm.company.com …
Specification	There are additional rarely use	d relationship types that are not defined on this artifact yet. Show them all
Compliance	Latest Events	
compliance		Se .
	No events to display.	
Show More	More	

The page header displays the artifact name, artifact type, and artifact ratings. For details about ratings, see "How to Use Ratings" on page 108.

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 22	Manage the documents associated with the artifact.
"Cloud Transformation Tab" on page 22	Provides the ability to start, manage and review surveys, which helps assess and analyze current application components. Enables to publish service designs, cost estimation deployment and cloud assessment. Assessment can be done from financial, business and technical perspectives.
"Financial Profile Tab" on page 24	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 25	Shows an artifact structure browser. It either displays composite structure or impact report. In addition to artifact basic information

#### Artifact View Page Tabs

#### Artifact View Page Tabs, continued

Tabs	Tab Content
	(such as name, owner and type) the browser captures lifecycle information such as the current stage.
"Lifecycle Tab" on page 26	Information related to the artifact lifecycle, including as a graphical view of the lifecycle process showing stage details.
"Discussion Tab" on page 27	A discussion forum for the artifact.
"Specification Tab" on page 28	A page for a full specification of the artifact including edit options with rich text and HTML tagging.
"Compliance Tab" on page 29	A detailed breakdown of the current policy compliance status of the artifact.
"Access Rights Tab" on page 30	View and manage the access rights for the artifact.
"Contacts Tab" on page 31	View and manage the contacts for the artifact.
"History Tab" on page 32	Lists artifact revisions enables users to compare selected two revisions and see the differences between them.
"Relationships Tab" on page 33	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.

fin-planner-1.0.ear Artifoct		
Overview	× × Ø	••••
Documentation	Version: Owner:	1.0 O
Tree View	Domain Id:	Demo Example Domain
Lifecycle	Relationships	ASCENT
Discussion	Stored Data Objects: Accessed by Services: Associated with:	Link new, Link existing Link new, Link existing us5678vm.company.com
Specification	There are additional rarely use	ed relationship types that are not defined on this artifact yet. Show them all
Compliance	Latest Events	J
Show More	No events to display. <i>More</i>	

#### **Overview Tab Content**

Content	Description
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 <b>Show them all</b> to show the full relationships section.
Latest Events	Displays the latest actions affecting the artifact. Click <b>More</b> to open the Events tab or the Tool icon to customize the Events component content.For details, see "Events Tab" on page 1 and "How to Use Events" on page 105.
Architecture Changes (Plateau & Deliverable only)	Manages changes for plateau or deliverable. For details, see "Setting Target Architecture" on page 65
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.
	• <b>New Version</b> - Create a new version of the artifact and its sub-artifacts.
	<ul> <li>Atom Feed - Publish a feed for artifact changes or artifact comments. For details, see "How to Use Feeds" on page 108.</li> </ul>
	• Send Notification - Send an email notification to artifact stakeholders. For details, see "How to Use Notifications" on page 104.
	Change Domain - Move the artifact to another domain.
	<ul> <li>Artifact Comments Feed - Subscribing to the feed allows you to view the latest updated comments on the artifacts.</li> </ul>
	• 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 details, see "How to Use Tasks" on page 107.
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.

#### Overview Tab Content, continued

Content	Description
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.

# Documentation Tab

The Documentation tab provides a place to view and manage the documents associated with the artifact.

fin-planner-1.0.ear Artifact							no votes
Overview	6	() () ()	×				My Tasks
Documentation	C	🗌 Name 🔺	Туре	Date	Version		No tasks defined.
Tree View	[	FinPlanner HLD.docx	Analysis	Jan 20	1.0		Administrator
Lifecycle	[	FinPlanner BR.docx	Business Requi	Jan 20	1.0	Planning Consitent	Policy Compliance
Discussion							Keywords None set
Categories							🧨 Edit

#### Documentation Tab Content

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

# 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.

Payment Gate Application Component Governed in Condidate stage (start at:	R/T2/15 ¢00 AMU
Overview	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 [II-in the sameys that will guide you through this process.
Documentation	Overview Financial Alignment Business Alignment Technical Alignment Deployment Hodels
Cloud Transformation	Cloud Transformation Score New the spectration meet: conductives to be hosted in a cloud environment ? Individual metrics that load to the decisions or evaluable as the Alignment table. Technical Score
Financial Profile	Show more information
Tree View	Praaccial Algoment: 77 of 100 Buoleess Algoment: 72.17 of 100
Lifecycle	Technical Alignment: 72 et 100
Discussion	Cloud Transformation Strategy The Cloud Transformation Press age to the ores spectators and/or results and Attentive strategy. Dedument Holds or required for agelactors that are setured for load transformation and require automated deployment. You might then pre-build a HP CAKCodar aptracticute: Second Press from the deployment model.
Show More	Cloud Transformation Strategy: Transform
	Deployment Models: Payment Sate Cloud Deployment
	Available Service Designs: Payment Gate - Cloud Service Design

#### 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 Ali	gnment Business Aligr	nment Technical Alignment	Deployment Models
Defines alignment survey Cloud Finar		ssible cloud deployment from th	he financial perspective using a score of	f 0-100. High score means that resources for the transformation are available and the transformation leads to reasonable savings. These scores are calculated based on a
6 Show more	e information	Take New Survey	Review Survey Answers	
Financial Alignment	t Score: 7	7 of 100		
Deployme	ent Costs			8.000 -
		osting for this application compo	onent when deployed into available date	to centers 7,000
Estimate Type:		Total estimate based on number	of servers property *)	6,000
Current Data Center	n H	P Cloud		4,000 -
Current Costs:	3,	,156		2,000 - 8
Deployme	ent Alternati	ives		1,000 - 67
Used Servers/Nodes	s: vi	mamrnd188, vmacoe13 🚥		
	1		La	Harden and County
	HP Cloud (Current)			here to here here
Class M (2)	3,156			0 <sup>et/th</sup>
				deployment at different infrastructure vendors. Please fill-in the details below.
rou need to proma	ie more information o	ioout this opplication componen	n so that we can estimate costs of the a	achedyment at any secure any action of the action a second action
Estimated Number	Of Servers: 2,	, Edit		
Compatible Operati	ing Systems: M	licrosoft Windows		
Default Server Class	s: C	lass M		
*) This estimate is	based on the "Estima	ted number of servers" property	of this application and relationships de	lefining operating system and server class required to run the application.

#### Business Alignment sub-tab:

Assesses the viability of transformation from a business perspective.

Overview F	Financial Aligr	nment <b>l</b>	Business Alignment	Technical Alignment	Deployment Models	
Business Align	nment					
Defines alignment of this calculated based on a surv				s perspective using a score of	0-100. These scores are	Workload Variability 100 Geography
Show more inform	ation	Take New Sur	vey			
Regulatory Alignment:	53					Security
Vendor Support Alignment:	88					
Service Availability Alignme	ent: 90					
Security Alignment:	69					Service Availability Vendor Support
Workload Variability Alignm	nent: 72					Current alignment Minimum Alignment for Public Cloud hosting
Geography Alignment:	61					

#### Technical Alignment sub-tab:

Assesses the viability of transformation from a technical perspective.

Overview	Financial Alig	Inment	Business Alignmen	t Technical Alignment	Deployment Models	
Technical Al	lignment					
Defines alignment of i calculated based on a				hnical perspective using a score of	0-75. These scores are	Infrastructure Requirements Cloud Operating Model
Show more inf	formation 🛛 🖉	Take New Su	vey			
Architecture Alignment	: 75					HP CSA
Internet Access Alignm	ent: 69					
Performance Requirem	ents Alignment: 94					
HP CSA Alignment:	84					Performance Requirements Internet Access
Infrastructure Requiren	nents Alignme 16					- Overstaller and - Malazza Managada Schill Standardia
Cloud Operating Model	Alignment: 94					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.

			olgy-layer elements that provide run of the o	application. Deployment Models are required for applications that are selected for cloud transformation and require automated
Show more information	1			
Deployment Models:	Payment Gate Cloud Depl	loyment		
Reference Applications:	Link new, Link existing			
	ization of a deployment model t		ght pre-build a new CSA Service Design from a	s selected application deployment model.
Deployment Model:	Payment Gate Cloud De	eployment 👻		
Payment Gate Cl	loud Deployment			
nvironments:	N/A			
lisualized by Diagrams:	Link new, Link existing			
SA Service Designs:	Payment Gate - Cloud Ser	rvice Design		
Create new ServiceDe	asign Associate Existin	ng Service Design		
	mapping of deployment model	elements to CSA Topology Component	ents. You can change the mapping, the CSA To	nnologu Component column is editable
ne jouowing table shows the	mopping of deployment model	etements to con ropology compone	nts, rou can change the mapping, the Con ro	
				Search 🕲
Application Model Element			CSA Topology Component	
Name ↓	Version	Туре	Name	Version
name +	5.2.3790	Server	Depends on datacenter	
	5.2.3790	Server	Depends on datacenter	
vmamrnd188	5.2.5750	System Software	Missing	
vmacoe13	5.2.3790	-,		
vmarnd188 vmacoe13 Windows 2003		Web Application	Missing	
vmamrnd188     vmacoe13     Windows 2003     Payment Gate Web	5.2.3790		Missing	
vmamnd188     vmacoe13     Windows 2003     Payment Gate Web     Payment Gate DB	5.2.3790	Web Application		1.0
wmarnn 1188     wmarnn 1188     wmarce 13     Windows 2003     Payment Gate Web     Payment Gate DB     Payment Gate	5.2.3790 1.0 1.0	Web Application Database Schema	Missing	1.0

## Financial Profile Tab

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

Analyst Research Application Component Governed in Candidate stage (star	t at: 8/12/15 4:06 AM)									no votes $\star \star \star \star \star$
Overview	Financial Informat Here you can see financial plan fi		15 This information is the source for most f	inancial reports except thos	that are focused on trends	of the financial data. If there	is a new fiscal period in plac	e, you can create financial p	rofile for new fiscal perio	xd.
Documentation	View Details & Edit	Take New Survey	Review Survey Answers							
Cloud Transformation	Period: Annual Cost of Software: Annual Cost of Hardware:	FY2015 35,000 950,000								
Financial Profile	Annual Cost Labor Internal: Annual Cost Labor External:	700,000 16,000								
Tree View	Annual Cost Other: Annual Cost Total:	65,000 1,766,000								
Lifecycle	Transformation Cost:	88,000								
Discussion	History									
Show More		created in previous years	i. It is also possible to update this or crea	ate new records for previous	that have passed already.					
	8 ×		Software Cost	Hardware Cost	Internal Labor Cost	External Labor Cost	Other Cost	NPV	ROI	Health
	_	- > » C	SOLEMBIACOSE	natuware cost	Internation Cost	External Labor Cost	othercost	NEV	KUI	No data to display

#### 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.

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

Analyst Research Application Component Governed in Candidate	: stage (start al: 5/30/14 12:18 PM)			no vote ★ ★ ★ ★
Overview	Dependencies Showing Dependencies of: Analyst Research			💲 Show Impac
Documentation			Filter by Name: Type to filter Go	< Show Lifecycle Tre
bocumentation	Analyst Research	Candidate ( 🌀 In Progress)	Application Component Lifecycle	0
Cloud Transformation	🖃 💶 Business Objects	Candidate ( 👩 In Progress)	Application Component Lifecycle	Navigato
	eExpense	Candidate ( 👩 In Progress)	Application Component Lifecycle	
Financial Profile	Forms Magic	Candidate ( 👩 In Progress)	Application Component Lifecycle	
rinancial Profile	WallChart	Candidate ( 👩 In Progress)	Application Component Lifecycle	
Tree View	g 109vm7.c0a.com			
Lifecycle				
Discussion				

#### 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 lifecycle process the artifact belongs to and the functionality required to participate in its lifecycle.

Enterprise Quality Management Business Function Governed in Supported stage (start at: 6/18	/14 8:45 PM)	no vote ★ ★ ★ ★
Overview	Business Function Lifecycle	Move to
Documentation	Candidate Approved Candidate Approved Candidate Approved Candidate Candid	Set Stage/Process
Tree View	✓ Approved (Requested by ▲ Administrator , Jun 18)	🗶 End Governance
Lifecycle	Auto Request Approval	History
Discussion	Tasks No items defined.	Lifecycle Compliance No policy compliant data available because this lifecycle stage has no required technical
Categories	Policies No items defined.	policies. O Recalculate
Specification	Approvers No items defined.	Policy Compliance Planning Consitency 66 %

#### 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).				
	<ul> <li>Request Approval - Request approval for the current lifecycle stage for the artifact.</li> </ul>				
	Cancel Approval - Cancel an approval request.				
	Notify Approvers - Send a notification email to the stage approvers.				
	• <b>History</b> - View the lifecycle history for the artifact.				
Compliance	Displays the current compliance status with an option to recalculate it.				

# Discussion Tab

The Discussion tab provides a forum for users to comment and discuss the artifact.

fin-planner-1.0.ear	
Overview	^ 🌤 🗭 🗙 📋
Documentation	Please add some keywords to this artifact Administrator, 12:18 PM
Tree View	<ul><li>Admin</li><li>Administration</li><li>Utilities</li></ul>
Lifecycle	← Reply 🖍 Edit 🗙 Delete
Discussion	

#### Discussion Tab Content

Content	Description			
Discussion Threads	The main part of the page displays discussion threads and comments about the artifact with options to <b>Reply</b> , <b>Edit</b> , and <b>Delete</b> comments.			
Context Actions	Displays a set of discussion context actions for the artifact. The available 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 108.			

For details about using the Discussion features, see "How to Use Comments" on page 103.

# Specification Tab

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

fin-planner-1.0.ear Artifact	
Overview	
Documentation	Account Service Features: • Balance Check
Tree View	<ul><li>Cash Withdrawal</li><li>Savings</li><li>Bank Transfers</li></ul>
Lifecycle	<ul><li>Overdraft Facilities</li><li>24 hrs Account Access</li></ul>
Discussion	
Categories	
Specification	

#### Specification Tab Content

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

# 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.

Catalog Rep	orts Navigator Artifact Artifact	Administration		Enter text to s	search in catalog	Q Administrator
Artifacts • Create • Import •					Favorite	s 💌 Recent Documents 👻 My Tasks 🛛 Recycle Bin
A/R Billing Upgrade Project Governed in Kick-off stage (start at: 6/16/14 9:44 PM)						no votes * * * * *
Overview	Lifecycle Compliance This artifact is involved in an active lifecycle process. Here you	can review the status of all policy assertions r	reeded to be evaluated so that you can advance into	new lifecycle stage.		Show:  Policies  Annotated Sources
Documentation	Current Status: 0% Policy ~	Туре	Status	Errors	Warnings	Validated Tasks
Financial Profile	Has Business Requirements	Required	Non-Compliant	1	0	Provide project requirements
Tree View	Policy Compliance Check the aggregated policy violations from all known policy a Average Compliance: 100% Issues Found: 0	eports. You can review the current policy repo	rts and also define a new one. You can do that on the	e "Reports" tab by selecting C	reate under All Reports.	
Lifecycle	Name	Compliance -				
Discussion	ArchiMate® Compliance Planning Consistency	100 % 100 %				
Compliance						
Show More						

About   Documentation   Current Date: Jun 11, 2015 3:35:47 PM, IST	Last Login: Jun 11, 2015 3:17:31 PM, IST
© Copyright 2003-2015 Hewlett-Packard Development Company, L.P.	

#### Compliance Tab Content

Enterprise Map

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.

fin-planner-1.0.ear Artifact				no votes ★★★★★
Overview				
Documentation	*• */ ×			< Share
bocumentation	🗆 Entity 🔺	Туре	Access	Check Access of
Tree View	Architects	Role	🖍 Read/Write	_
	🔲 🕹 Business Analyst	Role	Sead 🗠	Owner
Lifecycle	🔲 🕹 Business Partner	Role	Read	💄 Joseph Banks
	Project Managers	Role	Read/Write	Change
Discussion	🗆 🕹 Administrator	Role	🖋 Read/Write	<i>v</i>
Discussion				Managing Access
Specification				
				This page displays currently assigned
Access Rights				access rights and allows their management.

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:
	• Share - Make the artifact visible to all users by giving them all read permission. For details, see "How to Share Artifacts" on page 110.
	• 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

# Contacts Tab

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

fin-planner-1.0.ear Artifact				
Overview	Business Owner			Send Message
Documentation				Seno Hessage
Tree View	Administrator			
Lifecycle				
Discussion	Technical Support			
Specification	₽			
Contacts	Architect			
Show More	4			
	Developer			
	Project Manager			
	<u>⇔</u> ×			
	Name	Owner	Туре	Rating -
	Automatically created user account	Andy Miller	User	*****
	Administrator	Administrator	User	*****

#### 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 104.

L Doris Wagner

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# History Tab

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

User

\*\*\*\*\*

fin-planner-1.0.ear Artifact					
Overview	-				
Documentation					
	🗆 Revision 🗸	Date	Actor	Lifecycle Stage	Lifecycle Process
Tree View	□ 4	2:45 PM	L Administrator		
	□ 3	2:16 PM	💄 Administrator		
Lifecycle	□ <b>2</b>	12:58 PM	💄 Administrator		
	□ 1	5/23/2014	💄 Administrator		
Discussion					
Specification					
History					

#### 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 <b>Compare Revisions</b> action to examine the changes in detail.

# Relationships Tab

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

Overview     Outgoing       Documentation <ul> <li> <ul> <li></li></ul></li></ul>	fin-planner-1.0.ear Artifact					••• ★★★★
Image: Construction of the second	Overview	Outgoing				
Iffercycle     Industry and addressing and addressing and addressing and addressing and addressing addresing addressing addressing addressing addressing addressi	Documentation	<b>*</b>				
Lifecycle     Besalizes     ASCENT     Application Component     1.0       Discussion     Incoming     Incoming     Incoming     Incoming       Categories     Image: Categories     Image: Categories     Image: Categories       Relationships     Image: Categories     Type     Version	Tree View	🗀. Relationship -	Artifact	Туре	Version	
Discussion     Incoming       Categories     Incoming       Relationships     Artifact     Type     Version	Lifervicle					
Categories	enceyen	Realizes	ASCENT	Application Component	1.0	
Relationships Artifact Type Version	Discussion	Incoming				
(Cotoriship)	Categories	· · · · ·				
□ Associated with us5678vm.company.com Server 1.0	Relationships	Relationship .	Artifact	Туре	Version	
		Associated with	us5678vm.company.com	Server	1.0	

#### **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 HP 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" below
- "Relationships Editor UI" on page 36
- "Adding an Artifact Relationship" on page 37
- "Removing an Artifact Relationship" on page 40
- "Adding a Shortcut" on page 41
- "Non-Compliant Relationships" on page 42

## Understanding Relationship Types

Relationships are created according to the HP EM SDM which is based on Archimate® specification. HP 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 HP 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.

Overview		×	Ø							
Documentation	Version:					Q.				
	Owner:	Owner:				L Joseph Banks				
Cloud Transformation	Domain	ld:			I	Demo Example Domain				
Financial Profile	Track th 'Baselin	e plans e'. You d	an add a	ned lifec plan for	r lifecy	ransitions of this artifact. The current lifecycle status and when it was reached is referenced as rcle transition by linking this artifact from a plateau or deliverable. The date for the transition rnd date property.				
Tree View	• Ca	ncelle	1							
	08/11/	2015 -	Baseline	(Approv	red)					
Lifecycle	Relationships									
	Realized	l applica	tion servi	ces:		Link new, Link existing				
Discussion	Used Servers/Nodes:					VMAMQA279, pdo2003intel03.labs.peregrine.com				
Show More	Realized by Projects:					Link new, Link existing				
Show More	Financia	l Profile	:			ASAC				
	Financial Profiles History:				1	Link new, Link existing				
	Fully Automates:				I	Link new, Link existing				
	Used Ap	plicatior	n Architec	ture:	(	GetCCM, CRM UI				
	Used Infrastructure:				I	Link new, Link existing				
	Application Function: Used by Business Architecture:				1	Link new, Link existing				
				ture:	1	Link new, Link existing				
	Deployn	nent Spe	cification	:	1	Link new, Link existing				
	Compati	ible Ope	rating Sys	items:	1	Link new, Link existing				
	Default	Server C	lass:		I	Link new, Link existing				
	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:									
	<ol> <li>Re-enter those into the system properly while following the current model.</li> <li>Declare this kind of relationship as a shortcut if you want to keep them in the repository as is.</li> </ol>									
	Hide the	m for no	w							

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.

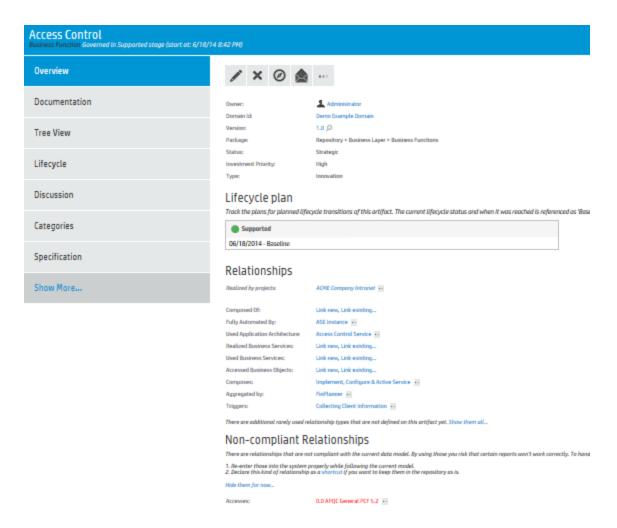
To view the outgoing and incoming relationships of a selected artifact:

- 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 Application Component Governed in Can						no vote
Overview	Out	going				
Documentation		oming				
Cloud Transformation		X				
Financial Profile		Relationship 🔺	Artifact	Туре	Version	
		Composes	GetASAC	Application Interface	1.0	
Tree View		Financial Profile	ASAC	Application Component Fina	1	
		Survey	Migrate Applications into Cloud - Technical Assessme	Survey	1.0	
Lifecycle		Survey	Migrate Applications into Cloud - Business Assessme	Survey	1.0	
		Survey	Migrate Applications into Cloud - Technical Assessme	Survey	1.0	
Relationships		Survey	Migrate Applications into Cloud - Business Assessme	Survey	1.0	
inclution print po		Uses	GetCCM	Application Interface	1.0	
Show More		Uses	CRM UI	Application Interface	1.0	
		Uses	pdo2003intel03.labs.peregrine.com	Server	1.0	
		Uses	VMAMQA279	Server	6.1.7600	

# Relationships Editor UI

The Overview tab shows you two types of relationships: Archimate standard relationships in the Relationships area, and Non-Archimate standard relationship in the Archimate Non-compliant Relationships area. The example shows an application service artifact.



If you have many relationships defined by a single relationship type, only a few artifacts are shown on the artifact overview page. If you want to show more relationships, you can click the **More...** button to show 10 artifacts at one time.

The most recently modified artifact will be displayed first on the list of relationship artifacts. The quantity of displayed artifacts after clicking More is decided by a system property titled platform.ui.relationship.artifact.max in system properties. Changing this value determines how many artifacts are shown.

### 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 business functions:	Manage Product Offering Inventory , CRM Support & Readin
Financial Profile:	Location intelligence
Deliverables:	Location intelligence
Associated Business Functions:	Link new, Link existing
Visualized by Diagrams:	Link new, Link existing
Composed of:	Link new, Link existing
Composes:	Link new, Link existing
Aggregated by:	Link new, Link existing
Aggregates:	Link new, Link existing
Assigned From:	Link new, Link existing
Specialized by:	Link new, Link existing
Specializes:	Link new, Link existing
Triggers:	Link new, Link existing
Triggered by:	Link new, Link existing
Flows To:	Link new, Link existing
Flows From:	Link new, Link existing

There are rarely used relationship types that are not defined on this artifact yet. Hide them...

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 on the Triggers relationship type, the available type menu might display Work Package consisting of Program and Project as available artifact types.

### Relationships

Realized business functions:	Manage Product Offering Inventory , CRM Support & Readiness , Sen					
Financial Profile:	Location intelligence					
Deliverables:	Location intelligence					
Associated Business Functions:	Link new, Link existing					
Visualized by Diagrams:	Link new, Link existing					
Composed of:	Link new, Link existing					
Composes:	Link new, Link existing					
Aggregated by:	Link new, Link existing					
Aggregates:	Link new, Link existing					
Assigned From:	Link new, Link existing					
Specialized by:	Link new, Link existing					
Specializes:	Link new, Link existing					
Triggers:	Link normalistics					
Triggered by:	Link r Work Package 🕨 Program					
Flows To:	Link new, Link existing					
Flows From:	Link new, Link existing Project					

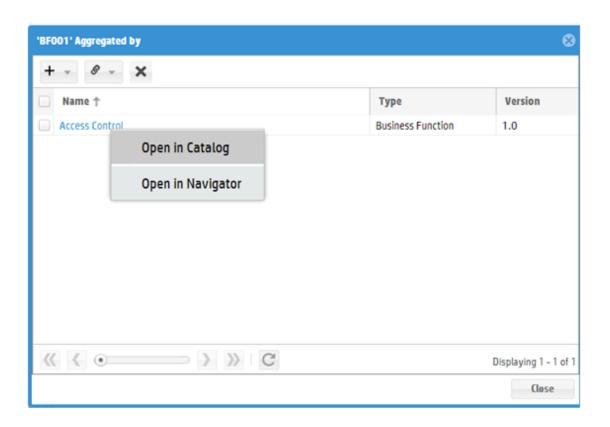
There are rarely used relationship types that are not defined on this artifact yet. Hide them...

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

Aggregated by:	Access Control	
Triggered by:	Link new, Link ex 🔗 🛛 Link ne	ew ⊦
Flows From:	Link new, Link ex	
Assigned To:	Link new, Link ex 🔗 Link ex	xisting 🕨
Realizes:	Link new, Link ex	
Composed of:	Link new, Link ex	view

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



### 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

Aggregated by:	Access Control
Triggered by:	Dpen in Catalog
Flows From:	
Assigned To:	Ø Open in Navigator
Realizes:	
Composed of:	X Unlink from this artifact
Triggers:	
Flows To:	Table view

3. You can also remove a set of artifacts linked to a the selected artifact while in the Table view,

'BF001' Aggregated by		8
+ - 8 - ×		
Name  Remove selected artifacts from relationship	Туре	Version
Access Control	<b>Business Function</b>	1.0
Analyze Resource Performance	<b>Business Function</b>	1.0
Analyze Service Quality	<b>Business Function</b>	1.0
« < • • • • > » C		Displaying 1 - 3 of 3
		Close

simply by selecting each artifact you wish to remove from the list.

### Adding 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.

FinPlanner Proposal		
Overview	/ × Ø	••••
Requirements		st for an architecture change. It is expected that a proposal wil delling the desired outcome is built. At this point of time it is kr
Changes to be Delivered		ency of selling process. The solution will analyze actual portfo l process, capture and improve information about client and in mer:
Prerequisites	<ul> <li>Capture key soft-informa</li> <li>Simulate various scenari</li> </ul>	partners to provide optimal set of products, improve and simp lation about client and behavior to improve services fos and analyze visually potential impacts of the analyze optic rovide recommendation about suitable products
Details	<ul> <li>Build reports regarding t</li> </ul>	the actual usage of the products, trends and consolidated cust
Documentation	Requirement Ar	natysis
	Planning	
Tree View	Associated Plateaus:	FinPlanner
	Implementing Projects:	FinPlanner
Show More	Architecture Diagrams:	FinPlanner Q Juirements ***
		🔗 Link existing
	Internal Effort:	N/A
	External Effort:	N/A Table view
	Cost:	N/A

2. There must be at least one shortcut created for this artifact. Click the "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.

### Non-Compliant Relationships

HP EM enables you to create relationships between compliant and non-compliant artifacts. Artifacts that are non-compliant with the Archimate-based HP EM data model are shown in the artifact view. However some of the relationships can be non-compliant according to the data model. These are shown in the Relationship Editor component, but with red color:

### 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:

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

Hide them for now...

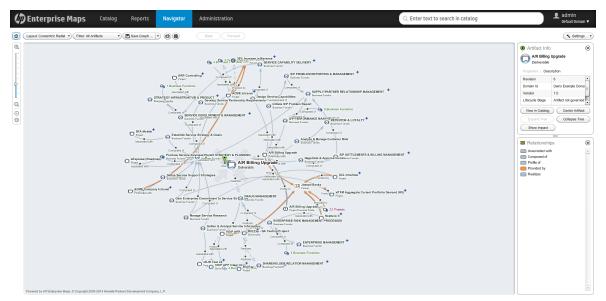
Accesses:

0.0 APQC General PCF 5.2 💀

# 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).

User Guide Chapter 3: Navigator

### Screenshots

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

# Chapter 4: Reports

HP 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 49
- "Policy Reports" on page 51
- "Heat Map Reports" on page 54
- "Structure Map Reports" on page 55
- "Custom BIRT Reports" on page 56
- "Roadmap Reports" on page 56
- "Cloud Transformation Reports" on page 58

Reports are customizable. Administrators can therefore create and deploy new reports without having to restart Enterprise Maps. For more details, see "Report Creation" in *Developer Guide* or contact HP 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.

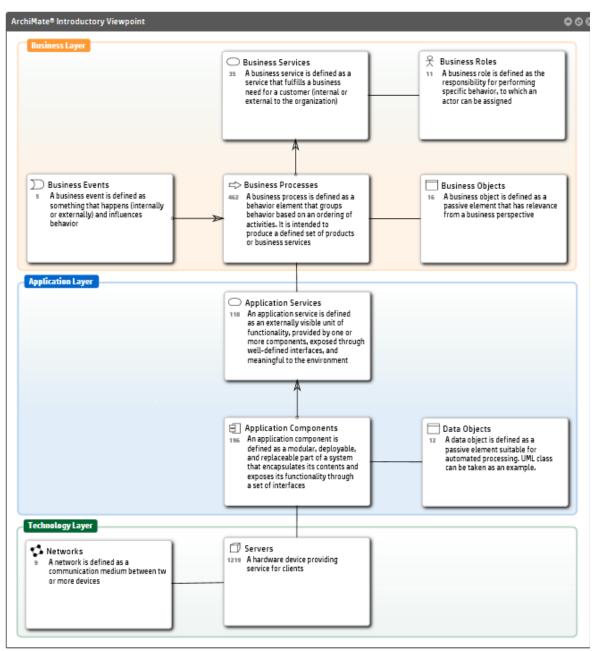
- "Archimate Introductory Viewpoint " below
- "Policy Radar Report" on the next page
- "Adding a Portlet to Your Dashboard " on page 48
- "Printing Portlet Content" on page 48

### Archimate Introductory Viewpoint

The HP 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

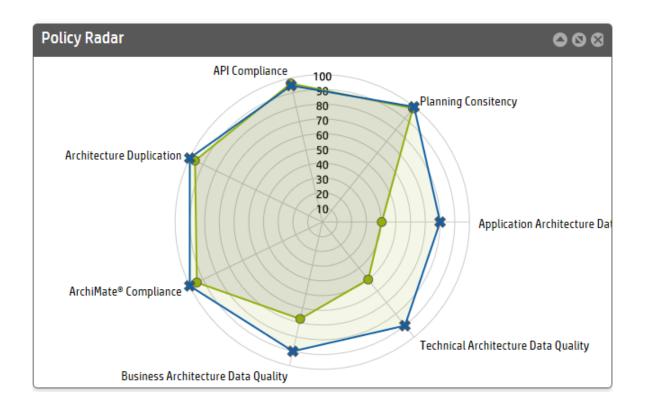
artifact properties and relationships.

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

HP 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 HP 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.

ŵ	All Reports 👻 Arch	itecture 👻 C	Cloud Assessment 👻 Tra	nsformation 🔻 Financia	l ▼ Governance ▼
Arc	:hiMate® Introductory	Viewpoint	Dashboard	🗇 🗢 🛇 😣 🛛 Artii	act Statistics
	usiness Layer	Busines 32 Abusine a service	Add Widget	▶ By Category ▶	Architecture
		busines: (interna organiza	Store as Default Layout	Ву Туре 🛛 🕨	Transformation
			Reset to Default Layout		Finance +
Σ	<ul> <li>Business Events</li> <li>A business event is defined as something that happens (internality or externality) and</li> </ul>	Susines 458 A busine a behav	Lock Dashboard	cts :t is defined as a : that has	Maintenance 🕨 🕨

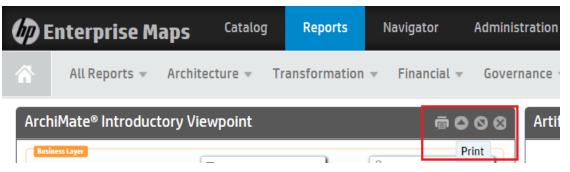
### Printing Portlet Content

HP 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.



- 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

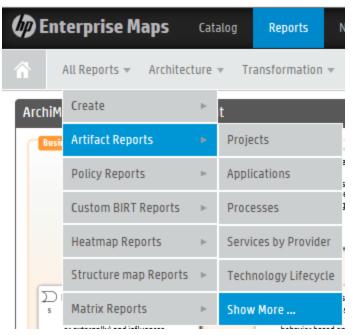
HP EM artifact reports provide table views of the artifact data contained in the HP EM repository. The report is designed and used directly in the HP EM web UI. The artifact table represents the result of a DQL query that is part of the report definition. Artifact reports are re-calculated every time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

Projects Used to review pro	Projects Ised to review projects, their status and their content.							
Health	Name 🖌	Manager	Planned Start	Planned Finish	Lifecycle Stage			
	A/R Billing Upgrade	Joseph Banks	October 2013	March 2013	Kick-off			
•	ab - test	Joseph Banks	October 2013	January 2013	Kick-off			
•	ACME Company Intranet	Bev Bailey	March 2013	October 2012	Implementation			
<b></b>	ACME Intranet	Bev Bailey	March 2013	October 2013	Kick-off			
•	AP Web Interface	Joseph Banks	June 2014	August 2013	Kick-off			
•	APO - Pilot	Joseph Banks	October 2013	January 2013	Kick-off			
<b></b>	APO Infrastructure	Joseph Banks	June 2013	November 2013	Kick-off			
٠	Barcode Asset Collection	Joseph Banks	July 2013	September 2012	Kick-off			
٠	Bill Pay - QA Testing Project	Mary River	January 2014	June 2013	Implementation			

### Viewing Artifact Reports

#### To view artifact reports:

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



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.

Catalog Browser	×
Projects	۵
Applications	
Processes	
Services by Provider	
Services by SLO	😒
Lifecycle Processes	2
Pending Approvals	2
Restore Defaults	Close

 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.

Projects Used to review p	orojects, their status and their content.											
Health	Name -	Manager	Planned Start	Planned Finish	Lifecycle Stage	Completion	NPV	ROI	Discount Rate	Budget	Planned Cost	Actual Cost
				-	-							
<u> </u>	A/R Billing Upgrade		July 2013	August 2013	Kick-off	41 %	3,244,851	3,282,000	10 %	0	1,121,000	1,213,000
0	ACME Company Intranet		August 2013	September 2013	Implementation	5 %	-1,000,000	-1,000,000		0	1,000,000	0
<u> </u>	ACME Intranet		June 2013	May 2014	Kick-off	97 %	-760	-760	10 %	0	35,000	759
0	AP Web Interface		December 2013	February 2014	Kick-off	27 %	0	0	10 %	0	0	0

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

HP EM policy reports are used to report the levels of policy compliance of the artifacts in HP EM repository. The report is designed and used directly in the HP 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 HP EM repository. Users always view results from the most recent calculation of the report.

ArchiMate <sup>®</sup> Compliance Policy Report					
Overview	ArchiMate Compliance				
Definition	Report Properties				
Results	Actual Compliance: 94.63 Target Compliance: 100.0				
	Overall Compliance	Top five artifacts with the wo	orst compliance		
	overan comptance	Top five artifacts with the we	not comptioned		
		Artifact	Compliance •	Owner	Domain
				Owner	
		Artifact	Compliance 🔺		Demo Example Domair
		Artifact Identity Management System	Compliance 🔺	Administrator	Domain Demo Example Domain Demo Example Domain Demo Example Domain
	Compliant (95%)	· Artifact Identity Management System ISB	Compliance - 0 % 0 %	Administrator	Demo Example Domair Demo Example Domair

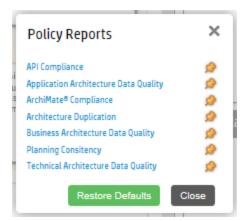
### Viewing Policy Reports

#### To view policy reports:

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

Ent	terprise Maps	Cata	alog	Reports	Navigator	Adn
	All Reports 👻 Architect	ure	r Ti	ransformatio	n 🔻 Financial	≠ Gα
:hiM	Create	Þ	t			
Busi	Artifact Reports	Þ				
	Policy Reports	Þ	API (	ompliance		
	Custom BIRT Reports	Þ	Appl	ication Archit	ecture Data Qual	ity
	Heatmap Reports	Þ	Arch	iMate® Compl	iance	J
	Structure map Reports	Þ	Arch	itecture Dupli	cation	
5	Matrix Reports	Þ	Busi	ness Architec	ture Data Quality	
	sometning that happens (internally or externally) and influences behavior	-	Plan	ning Consiten	су	ł
			Tech	nical Archited	ture Data Quality	y
Appli	cation Layer		Shov	v 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. Click Archimate Compliance to view the policy report called Archimate Compliance.

### Archimate Compliance Report Structure

The Archimate Compliance policy report consists of three subreports:

• **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.

Overview	Archimate Compliance	e			
Definition	Domain:	Top-level Domain			
	Owner:	System			
esults	Target Compliance [%]:	100.0%			
esuits	0	I.	T		
esuits	Overall Comp	oliance	Top five artifacts with	the wo	
esuits	Overall Comp	oliance			
-50115	Overall Com	bliance	Artifact	Compli	View R.
-50115	Overall Comp	bliance	· Artifact FinPlanner Access from fro	Compli	View R. View R.
esuits	Overall Comp		· Artifact FinPlanner Access from fro Sponsor	Compli 0 % 0 % 0 %	

• **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 Compliance						
Overview						
	Artifact 🔺	Туре	Status	Compliance	Problems	
Definition						
	00144FA9533A_l2	Server	Compliant	100 %	0	View Report
Results	00144FA9533A_l2	Server	Compliant	100 %	0	View Report
	00144FA9533A_l2	Server	Compliant	100 %	0	View Report
	24 * 7 availability	Principle	Compliant	100 %	0	View Report
	27000@labm2am	System	Compliant	100 %	0	View Report
	2k332ddmidev,w2	Server	Compliant	100 %	0	View Report
	<noname></noname>	Junction	Non-co	0%	1	View Report

• 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 subreport.

Archimate Compliance Policy Report			
Overview		ı: @ Policies ⊚≀	Annotated Sources
Definition	Advisory Service Artifact Name		
	Policy Technical Policy Name	Errors	Warnings
Results	Archimate Compliance Validator Solution Non-Compliant	1	0

Each row starts with a clickable plus symbol (+). When clicked it expands a row to show a full textual description of all errors are warnings.

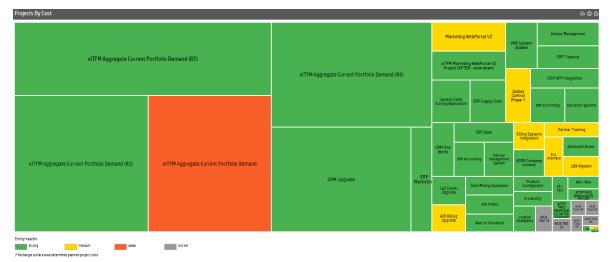
	Policy	L.	Status	Errors	Warnings
-		nate Compliance Validator Archimate Compliance Validator	🗕 Non-Compliant	1	0
		Artifacts: Advisory Service Archimate Non-compliant Relationships: rea	lizedBy: (businessFunctionArtifo	ict: Collecting Client I	Information)

## Heat Map Reports

You can use the HP 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. HP 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 HP 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 HP EM administrator, you can use HP 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.

	Enterprise Management		Operation					
Enterprise Effectiveness Management Processes	Enterprise Risk Management Processes	Financial & Asset Management Process	Customer Relations	hip Management	Resource Management & Operations			
Facility Management & Support Support	Audit Management Business Continuity Management	Financial Assets Management	Collecting Client Information	Customer Interface Management Customer QoS/SLA Management	RM&D Support & Readiness Processing			
Program & Project Management Management	Fraud Management Security Management	Procurement Management	Selling Billing & Collection Management	CRM Support & Readiness Fulfillment Response	Resource Performance Management			
Enterprise Quality Management	Insurance Management		Order Handling Problem Handling	Retention & Loyalty	Resource Trouble Management			
luman Resources Management Processes	Knowledge & Research Management Stakehol Processes	Ider & External Relations Management Processes	Service Management & Operations	Supply/Par	rtner Relationship Management			
Workforce Strategy Employer & Labor Relation Management	Knowledge Research Management Management Management	rities Relations Communication	Service Problem Management Management	S/P Problem Reporting & Management Bill	ents & Management & Readiness			
HR Policies & Organization Practices Development	Technology Legal				P Requisition anagement			
	ction via 'realizes' relationship							

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 HP 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 HP 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 <a href="http://www.eclipse.org/birt/">http://www.eclipse.org/birt/</a> where you can find details about the technology used and a few report examples.

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

## Roadmap Reports

HP 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.

🕼 Enterprise Maps	Gatalog	g Reports	Navigator	Administration							Enter text to search in catalog	Q	Administrator
☆ All Reports ▼ Arc	hitecture 🔻	Transformation •	• Financial •	Governance *	Cloud 🔻							Re	ecent Documents 👻
1-Year Roadmap													00
Select color visualization:	latio of complete	d/all deliverables	*										$\langle \rangle$
0%-25%	25%-50%	50%-7	5%	75%-100%	No change declared t	es to deliver	loday						
Projects		1			11.		2015	Ш.			IV.	2016	
A/R Billing Upgrade	A/R Billing Up												
ACME Company Intranet	33 days	ACME Compan											
ACME Intranet	ACME Backend 127 days	25 days	ACME Fronti 141 days	end				ACME Intranet 37 days	ACI 37	ME Reporting days			
AP Web Interface						AP Web 43 days	nterface						
APO - Pilot	APO - Pilot 331 days					40 0895							
APO Infrastructure	3510895			APO In 34 days	rastructure								
Barcode Asset Collection		Barcode Asset Colle 40 days	ction	J4 0895									
Bill Pay - QA Testing Project		Bill Pay - QA Testing Pro											
Bill Pay Application	Bill Pay Application 152 days												
Billing Systems Integration	Toc obys				Billing Syste	ems Integ	ation						
Business Unit Integration	Business Unit Inb 321 days	egration			00000					F			
CRM One World	J21 deys	ç	RM One World 33 days										
Call Center Upgrade		Cal	Il Center Upprade						L				
Commerce Center 6.0		19	9 days					Corr	merce Center 6. bys	.0			
Commerce Center 6.0 - QA Testing Project			Commerce C	enter 6.0 - QA Testing	Project			333	ays				
Data Mining Expansion				Data Mining Expansio N/A									
Distribution Access	Distribution Acce	55		N/A									

# **Cloud Transformation Reports**

Cloud Transformation provides the following reports:

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

#### **Cloud Transformation Status**

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

Assessment Financial	Technical		the second s	20	The birth of the second	6	to along an increase to birth on The anal have to be		Show less information
based on the score and also on the	operational co	sts of the applications which also a	solution, the assessment scores of the signed in technical and financial s	or are calculated based on s surveys.	urveys the higher the score t	ne suitability of the application to run	in cloud enviroment is higher. The goal here is to	assign a transjormation decision for e	Search
Application Name	Version	Owner	Business Score	Financial Score	Technical Score	Overall Score	Current Hardware Cost	Recommendation	Transfomation Strateg
Agresso	3.1	L Nicole Smith	54	82	54	63	N/A	Private Cloud	N/A
Analyst Research	0.2	L Nicole Smith	41	62	73	59	\$950,000	Private Cloud	N/A
ASAC	1	L Joseph Banks	83	89	90	87	N/A	Public Cloud	N/A
ASCENT	1	L Administrator	68	76	74	в	\$289,260	Private Cloud	Transform
ASE Instance	1	L Administrator	84	88	80	84	\$151,123	Public Cloud	N/A
BE1	1	L Mary River	15	5	30	17	\$1,250,000	Re-architect	N/A
BE2	1	L Mary River	35	10	48	31	N/A	Private Cloud	N/A
88	1	L Mary River	50	11	61	40	N/A	Private Cloud	N/A
3E4	1	L Mary River	41	51	68	53	N/A	Private Cloud	N/A
Silling Services	5.2	L Joseph Banks	52	20	46	39	\$170,000	Private Cloud	N/A
irand Identity	6.2	L Mary River	44	23	56	41	N/A	Private Cloud	N/A
SrandMart	9.1	L Dave Olson	57	29	42	42	N/A	Private Cloud	N/A
Susiness Availability Monitoring	1	Administrator	45	90	55	63	N/A	Private Cloud	N/A
usiness Objects	7.4	L Mary River	54	22	51	42	N/A	Private Cloud	N/A
AD System	2	A Nicole Smith	84	51	80	n	N/A	Public Cloud	N/A

In this report:

#### • Minimum Estimated Hardware Cost

The lowest cost 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.

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.

#### 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

Is calculated as:

Savings Opportunity = Current Hardware Cost - Minimum Estimated Hardware Cost

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

• ROI (5 years)

Is calculated as:

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

#### **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.

Cloud Transformation Data Quality Policy Report					
Overview	/ × C …				
Definition	Report Properties	11 %			
Results	Target Compliance: 80 %				
	Overall Compliance	Top five artifacts with the worst	t compliance		
		Artifact	Compliance 🔺	Owner	Domain
		Corporate Help Desk	0 %	Administrator	Demo Example Domain
		🗎 Retail System	0 %	Administrator	Demo Example Domain
		Identity Management System	0 %	Administrator	Demo Example Domain
		CGM	33 %	L Administrator	Demo Example Domain
	<ul> <li>Compliant (81%)</li> <li>Non-compliant (19%)</li> </ul>	File Store	33 %	Administrator	Demo Example Domain

View results for all 196 artifact(s).

# Chapter 5: Architecture Transformation

Enterprise Maps (HP EM) enables the enterprise architect to provision future states of an enterprise architecture in order to evaluate new solution architecture designs. This enables the Enterprise Architect to maintain a view of shared IT assets and to make decisions regarding asset sharing through the approved solution design of a new project. The ability to create consolidated future views in selected time slices is made possible through the export of a new solution design layout to the HP EM repository during the Solution Architecture Design phase.

HP EM is capable of managing not only the current architecture (as-is) but also the future architecture (to-be) provisioned for the enterprise. HP EM uses the same artifacts as in Archimate2® Implementation, and Migration and Motivation layers to model the transformation process.

In HP 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.

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

- "Creating Proposal" on the next page
- "Creating Project from Proposal" on page 64
- "Setting Target Architecture" on page 65
- "Setting Efforts of Architecture Changes" on page 68
- "Monitoring Architecture Changes" on page 68

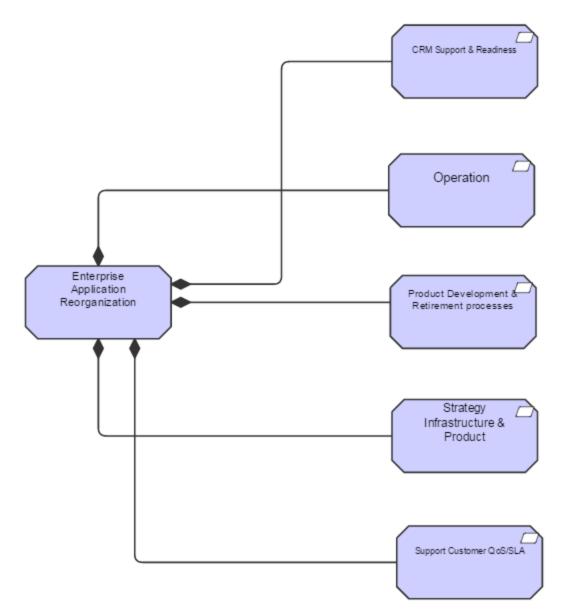
## **Creating Proposal**

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
    - D Content
  - Interprise 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
      - 🖫 Architecture changes of CRM Support & Readiness
    - Image: A construction A construction
      - 🖫 Architecture changes of Operation
    - Requirements
      Requirements of Enterprise Application Reorganization
    - Strategy Infrastructure & Product Strategy Infrastructure & Product
      - Recht ArchiMate\_Deliverable» Architecture changes of Enterprise Applications
      - ArchiMate\_Requirement» Enterprise Application Reorganization
      - ArchiMate\_Plateau» Enterprise Application Reorganization
    - E 🖂 Cablasses
- 2. 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 **Sparx add-in** later on.

Finplanner - version 2 Proposal	
Overview	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
Requirements	template. Package for this proposal: finplanner.v2 Create Architecture

3. Once the proposal has the structure defined, the architect or the proposal owner is using the "Extension for Sparx Systems EA" on page 122 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 **Sparx add-in**. While doing so you can assign the values for the estimates on the effort needed to build the solution.

	La Architecture of Enterprise Application	3
Assess Performance of Existing Products	HP Enterprise Maps	Manage Product Exit 1.0 Supported
Anage Product Development Launch New Product Caduct & Offer Developmen & Retirement Sather & Analyze New Product Ideas	Conterprise Application Reorganization (Plateau)     Target Stage     Date     Prerequisite     Internal Effort     External Effort     Cost     Name Manage Product Exit	Supported N/A 0 0 0
Develop Product Commercialization Strategy Develop Detailed Product Specification Develop New Product Business Proposal		

5. 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.

Requirement Coverage								
Name	<b>Requires Coverage</b>	Covered by	Description					
Product Development & Retirement processes	Yes	Development & Retirement						
CRM Support & Readiness	Yes	CRM Support & Readiness						
🗖 Operation	Yes	C Operation						
Strategy Infrastructure & Product	Yes	🗔 Strategy Infrastructure & Product						
Support Customer QoS/SLA	Yes	🗔 Support Customer QoS/SLA						

6. In HP 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.

8 - X							All items	~	Search 🛞 🔾
Name	Туре	Version	Last Approved Stage	Target Stage	Prerequisite	Internal Effort	External Effort	Cost	Completion Status 🗸
Assess Performance of Existing Products	Business Function	1.0	Supported	Retired		2342	2342		A Not completed
Product & Offer Development & Retirement	<b>Business Function</b>	1.0	Supported	Deprecated					🔺 Not completed
Support Marketing Fulfillment	<b>Business Function</b>	1.0	Supported	Implementation	$\checkmark$	N/A	N/A	N/A	Invalid
Develop Resource Partnership Requirements	<b>Business Function</b>	1.0	Supported			N/A	N/A	N/A	Invalid
Launch New Product	<b>Business Function</b>	1.0	Supported	Supported		5464			Completed
Support Retention & Loyalty	<b>Business Function</b>	1.0	Supported	Supported		675	453		Completed
Manage Product Exit	<b>Business Function</b>	1.0	Supported	Supported		234	45	4353	Completed
Manage Sales Inventory	Business Function	1.0	Supported	Supported		14412			Completed
Support Problem Handling	Business Function	1.0	Supported	Supported	$\checkmark$	N/A	N/A	N/A	Completed
Manage Campaign	Business Function	1.0	Supported	Supported	$\checkmark$	N/A	N/A	N/A	Completed

Target Architecture Changes

7. 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.

chitecture changes listed	l here are not completed, i	t is not advisable to start a pr	oject based on this proposal.				
						Search	© C
Type↓	Owner	Plateau	Realized by	Last Approved	Target Stage	Completion Sta	tus
Business Function	Administrator	🛲 Enterprise Applicati	CRM Support & Readiness	Supported	Supported	Completed	
Business Function	Administrator	🛲 Enterprise Applicati		Supported		A Not comple	eted
Business Function	Administrator	🛲 Enterprise Applicati	CRM Support & Readiness	Supported	Supported	Completed	
<b>Business Function</b>	Administrator	🛲 Enterprise Applicati	CRM Support & Readiness	Supported	Implementation	A Not comple	eted
Business Function	Administrator	🛲 Enterprise Applicati	CRM Support & Readiness	Supported	Supported	Completed	
<b>Business Function</b>	Administrator	🛲 Enterprise Applicati	CRM Support & Readiness	Supported	Supported	Completed	
	Type ↓           Business Function           Business Function           Business Function           Business Function           Business Function           Business Function           Business Function	Type J.         Owner           Business Function         Administrator           Business Function         Administrator	Type J.         Owner         Plateau           Business Function         Administrator         Enterprise ApplicatL.           Business Function         Administrator         Enterprise ApplicatL.	Business Function         Administrator         Æ Enterprise Applicatt         CRM Support & Readiness           Business Function         Administrator         Æ Enterprise Applicatt         CRM Support & Readiness           Business Function         Administrator         Æ Enterprise Applicatt         CRM Support & Readiness           Business Function         Administrator         Æ Enterprise Applicatt         CRM Support & Readiness           Business Function         Administrator         Æ Enterprise Applicatt         CRM Support & Readiness           Business Function         Administrator         Æ Enterprise Applicatt         CRM Support & Readiness	Type J.         Owner         Plateau         Realized by         Last Approved           Business Function         Administrator         # Enterprise Applicatt.         CRM Support & Readiness         Supported           Business Function         Administrator         # Enterprise Applicatt.         Support & Readiness         Supported           Business Function         Administrator         # Enterprise Applicatt.         CRM Support & Readiness         Supported           Business Function         Administrator         # Enterprise Applicatt.         CRM Support & Readiness         Supported           Business Function         Administrator         # Enterprise Applicatt.         CRM Support & Readiness         Supported           Business Function         Administrator         # Enterprise Applicatt.         CRM Support & Readiness         Supported	Type J.         Owner         Plateau         Realized by         Last Approved         Target Stage           Business Function         Administrator <ul></ul>	Type J         Owner         Plateau         Realized by         Last Approved         Target Stage         Completion Sta           Business Function         Administrator         Imaget Replice Applicat         C (RM Support & Readiness)         Supported         Supported         Completed           Business Function         Administrator         Imaget Replicat         C (RM Support & Readiness)         Supported         Supported         Completed           Business Function         Administrator         Imaget Replicat         C (RM Support & Readiness)         Supported         Supported         Completed           Business Function         Administrator         Imaget Replicat         C (RM Support & Readiness)         Supported         Not completed           Business Function         Administrator         Imaget Replicat         C (RM Support & Readiness)         Supported         Not completed           Business Function         Administrator         Imaget Replicat         C (RM Support & Readiness)         Supported         Not complete           Business Function         Administrator         Imaget Replicat         C (RM Support & Readiness)         Supported         Completed           Business Function         Administrator         Imaget Replicat         C (RM Support & Readiness)         Supported         Completed

8.

## Creating Project from Proposal

The HP 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	💉 🗙 🧭 🌨
Requirements	Proposal represents a request for an architecture change. It is expected that a proposal will go through a should be driven by requirements that are properly decomposed. Once this is done a plateau that is mode At this point of time it is known how costly the implementation of the proposal will be so that it can be t
Changes to be Delivered	Requirement Analysis
Prerequisites	Composed of (Requirements): Link new, Link existing Aggregated by (Requirements): Link new, Link existing Requirement Diagrams: Requirements of Banking Financials
Details	More on requirements
Documentation	Planning You can create a project for this proposal
Tree View	Associated Plateaus: Architecture Diagrams: Architecture Diagrams: Create project from this proposal All architecture elements from the plateaus which are not prerequisities will be copied into the deliverables

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

Create Project from Proposal 'Banking Financials'						
This action will crea plateaus associated	te project from ti I with the proposi	his pro al and	posal will c	. It will copy the contents of the reate deliverables from them.		
Name:	Financial Planning 2015					
Start Date:	02/02/2015					
End Date:	12/31/2015	×				
				Create 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

HP 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 Architecture Changes**

8 -	×	All items 👻 Sea	arch 🤇	Q
Name	Туре	Last Approved Stage	Target Stage	Prer
Identity Man	Application Component		Production	2
Get Invest.P	Business Process	Candidate	Cancelled	2
🧹 Get Cash-Flow	Business Process	Candidate	Production 👻	] [
Get Marketi	Business Process	Candidate	Cancelled	
Call me Back	Business Process	Candidate	Candidate	C
Business Pr	Business Process	Candidate	Deprecated	
Goals Achiev	Business Process	Candidate	Development Production	C
FinPlanner A	Application Component	Candidate	Retired	
FinPlanner P	Application Component		Production	
Individual A	Business Process	Candidate	Production	

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

Target Architecture C	hai	Active	
8 - 1 - X	-	Board Approval	© Q
Nam Set Target Stage	•	Cancelled	i Stage Targe
Retail System	Арр	Candidate	Produc
Collecting Client's Cash-Flow I	Bus	Classed	Produc
🧹 Get Invest.Profile	Bus	Closed	Produc
det Cash-Flow	Bus	Denied	Produc
Get Marketing Data	Bus		Develo
Call me Back processing	Bus	Deprecated	Produc
Business Proposal Management	Bus	Development	Develo
Goals Achieving Review	Bus		Produc
FinPlanner Application	Арр	Draft	Produc
FinPlanner Presentation Layer	Арр	Implementation	Produc
« < • • • • • • • • • • • • • • • • • •			ring 11 - 20 of 138
		Initial	-

**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: 2 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							
Finished (started by Administrator , 4:26:55 2 successful.	Finished (started by L Administrator , 4:26:55 PM) 2 successful.						
× ····							
Name	Artifact Type	Status 🗸					
Get Invest.Profile	<b>Business Process</b>	Successful					
Get Cash-Flow	<b>Business Process</b>	Successful					

## Setting Efforts of Architecture Changes

HP EM allows users to manage costs, and internal and external effort of the architecture changes. The data can be entered through Plateaus UI or *Changes to be Delivered* tab of Proposals. This helps speed up the evaluation process and assists stakeholders make some key decisions.

FinPlanner Proposal													no va ★ ★ ★ ★
Overview	Delive	ered Archited	ture	Chan	ges								
Requirements	Here you c enterprise	an see a list of archited architecture. To alter t	cture chan the costs o	ges that i of the arcl	needs to be delive hitecture change y	red by this propose ou need to open th	al. Each a he platea	hange is deo u which dec	clared within lares it.	a plateau	ı which repres	ents a st	able state of the
Changes to be Delivered											S	earch	© Q,
	Name	Туре↓	Version	Owner	Plateau	Last Approved	Target	Internal I	Ext. Effor	Cost 🔻	Complianc	Comp	etion Status
Prerequisites	👄 S	Infrastructure Ser	N/A	Andy	🛲 FinPlanner	Not assigned		10				🔺 N	lot completed
	<b>—</b> Ap	Infrastructure Ser	N/A	Nicol	🛲 FinPlanner	Not assigned		50		100000		A N	lot completed
Details	🗖 Fi	Data Object	1.0	Jose	🛲 FinPlanner	Not assigned		10				🔺 N	ot completed
	🗖 Pr	Data Object	1.0	Dave	🛲 FinPlanner	Not assigned						A N	lot completed
Documentation	🗖 Co	Data Object	1.0	Jose	🛲 FinPlanner	Not assigned						🔺 N	ot completed
Documentation	🗖 Co	Data Object	1.0	Jose	🛲 FinPlanner	Not assigned						🔺 N	ot completed
	🗢 (r	Business Service	1.0	Dave	🛲 FinPlanner	Candidate						🔺 N	ot completed
Tree View	👄 Ad	Business Service	1.0	Nicol	🛲 FinPlanner	Candidate						🔺 N	ot completed
	🗢 (r	Business Service	1.0	Dave	🛲 FinPlanner	Candidate						A N	ot completed
Show More	<b>— G</b>	Business Service	1.0	lose	FinPlanner	Candidate						A N	ot completed

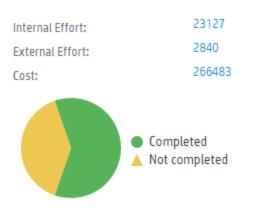
## Monitoring Architecture Changes

The proposal owner can monitor the following aspects:

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

### Changes to be Delivered

### 30 Elements total, more...



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

Enterprise Maps Catalog	Reports Navigator Administration										Enter text to sea	irch in catalog
Artifacts + Create + Import +												
terprise Application Reorgani	zation											
posol												
verview	Delivered Architecture Changes											
	Delivered Architecture Changes											
equirements	Here you can see a list of architecture changes that needs t	to be delivered by this proposi	al. Each ch	ange is de	clared within a plateau whi	ch represents a stab	ile state of the enti	erprise architecture	. To alter the cas	ts of the architectu	re change you need to	o open the plateau which
hanges to be Delivered	Name	- Type ↓	Version	Owner	Plateau	Last Approved	Target Stage	Internal Effort	Ext. Effort	Cost	Compliance	Completion Status
rerequisites	A Develop Detailed Product Specifications	Business Function	1.0	Adm	🕿 Enterprise Applicati	Supported	Supported		0		2 Violations	Completed
	A Support Billing & Collections	<b>Business Function</b>	1.0	Adm	🖝 Enterprise Applicati	Supported	Supported	0	0	67800	2 Violations	<ul> <li>Completed</li> </ul>
	Support Bitling & Collections	Business Function Business Function	1.0 1.0		🖝 Enterprise Applicati 🖝 Enterprise Applicati			0	0	67800 98700	2 Violations 4 Violations	
etails				Adm		Supported	Supported	0	0			Completed
	A Service Development & Management	Business Function	1.0	Adm Adm	🖝 Enterprise Applicati	Supported Supported	Supported Supported	0	0	98700	4 Violations	Completed     Completed
letails	A Service Development & Management	Business Function Business Function	1.0 1.0	Adm Adm Adm	Enterprise Applicati	Supported Supported Supported	Supported Supported Supported	0	0	98700 50000	4 Violations 4 Violations	Completed     Completed     Completed     Completed
ocumentation	Service Development & Management Strategy Infrastructure & Product Supply/Partner Relationship Management	Business Function Business Function Business Function	1.0 1.0 1.0	Adm Adm Adm	■ Enterprise Applicati ■ Enterprise Applicati ■ Enterprise Applicati	Supported Supported Supported Supported	Supported Supported Supported Supported	0	0	98700 50000	4 Violations 4 Violations 4 Violations	Completed     Completed     Completed     Completed     Completed
ocumentation	Strategy Infrastructure & Hanagement Strategy Infrastructure & Product SupplyPartner Relationship Management Support Setting	Business Function Business Function Business Function Business Function	1.0 1.0 1.0 1.0	Adm Adm Adm Adm	Enterprise Applicati Enterprise Applicati Enterprise Applicati Enterprise Applicati	Supported Supported Supported Supported Supported Supported	Supported Supported Supported Supported Supported	0	0	98700 50000	4 Violations 4 Violations 4 Violations 2 Violations	Completed     Completed     Completed     Completed     Completed     Completed
	Service Development & Hanagement Strategy intractoruture & Product A Strategy intractoruture & Product A Supply/Partner Relationship Hanagement A Supply/Partner Relationship Hanagement A Hanage Customer Inventory	Business Function Business Function Business Function Business Function Business Function	1.0 1.0 1.0 1.0 1.0	Adm Adm Adm Adm Adm	Enterprise Applicati     Enterprise Applicati     Enterprise Applicati     Enterprise Applicati     Enterprise Applicati	Supported Supported Supported Supported Supported Supported	Supported Supported Supported Supported Supported			98700 50000	4 Violations 4 Violations 4 Violations 2 Violations 2 Violations	Completed     Completed     Completed     Completed     Completed     Completed     Completed     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 3 topics:

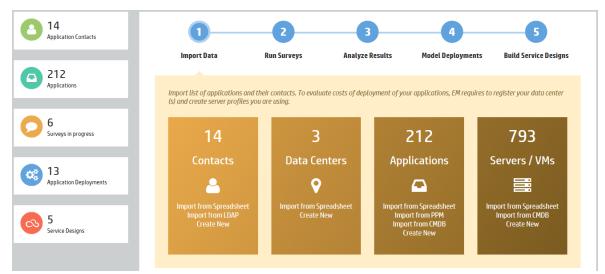
"Cloud Transformation Dashboard" below

"Estimating Cost of Deployment" on the next page

"Service Design Publishing" on page 75

## Cloud Transformation Dashboard

The Enterprise Maps Cloud Transformation Dashboard functions like a wizard and comprises of 3 separate panels. The wizard runs you through the cloud transformation process. This process helps provide insights into status of IT infrastructure.



The 3 panels on the dashboard 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
Contacts	All contacts.
Applications	All application components.

### Left Panel, continued

Application Deployments	Infrastructure services representing deployments of applications.
Surveys in-progress	Surveys currently open.
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 Deployments	Build up deployments from Sparx Systems EA or import them from 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:

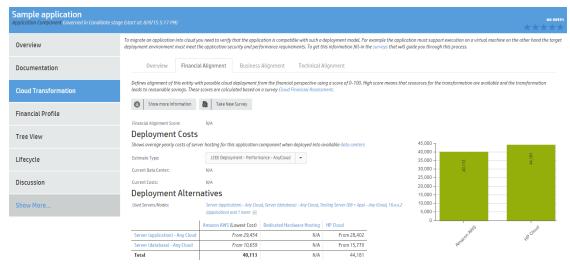
- 1. Open the Application Component.
- 2. Go to Cloud Transformation tab and click **Financial Alignment** sub tab.
- 3. In Estimated Number Of Servers field click Edit and enter a number here.
- 4. In the **Compatible Operating Systems** field select the Operating System required. If no selection is 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.

Sample application Application Component Governed in Candidate stag	e (start at: 8/4/15 5:17	РМ)					no votes
Overview	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.						
Documentation	Overview	Financial Al	gnment Business Alignm	nent Technical Alig	nment		
Cloud Transformation	Defines alignment of this entity with possible cloud deployment, 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 sovings. These scores are calculated based on a survey Cloud Financial Assessment.						
Financial Profile	Show more     Financial Alignment		Take New Survey				
Tree View	Deployment Costs Shows prevale work/ costs of server hosting for this application component when deployed into available data centers 60.000						
Lifecycle	Estimate Type: Current Data Center:	[	Total estimate based on number of	servers property *) 👻		50,000	89
Discussion	Current Costs: N/A					30,000	
Show More	Deployment Alternatives Used Servers/Nodes: Server (adjustation) - Any Cloud, Server (tatabase) - Any Cloud, Testing Server (10 + App) - Any Cloud, Servers (adjustation) and T more					10,000	
		Amazon AWS	Dedicated Hardware Hosting	HP Cloud (Lowest Cost)	1	"He Cloud	Prosen MAS
	Class 8XL (2)	From 58,90	B N/A	From 56,804		***	wnaton.
	Total	58,90		56,804			
You need to provide more information about this opplication component so that we can estimate costs of the deployment at different infrastructure vendors. Please fill-in the details below.							nils below.
	Estimated Number Of Servers: 2, Edit						
	Compatible Operating Systems: Link new, Link existing						
	Default Server Class		lass 8XL				
	*) This estimate is based on the "Estimated number of servers" property of this application and relationships defining operating system and server class required to run the application.						

**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 127 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 J2EE Deployment Performance Any



Cloud. The UI refreshes to show estimated cost for this reference model.

**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
- DWH
- HR System
- Payment Gate
- RMC Backend
- TLS
- Travel Mobile Connect

#### 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.

HP Cloud 4XL compu	te_suse
Name: *	HP Cloud 4XL compute_suse
Description:	B I U A
Version:	1.0
Package:	Repository > Reference Data > Server Profiles 🗙
	O Add
Total Cost of Acquisition:	
Per Hour Cost:	1.96
Expected Lifetime (Months):	
Memory (GB):	60
CPU Cores:	60
Storage Size (GB):	870
Save Cancel	

#### How to Refresh Pricing Information

Pricing information of Amazon Web Service and HP Cloud data centers is available and up-to-date as of the release of Enterprise Maps. To get the latest pricing information of these data centers follow the steps below:

- 1. Run EM\_HOME/demos/cloud-pricing-import/createCSVs.bat.
- 2. Check EM\_HOME/demos/cloud-pricing-import/generated folder to make sure aws.csv and hpcloud-data.csv are updated (check the modified dates). If an error occurs or these files are not updated, refer to README file for more troubleshooting details.

**Tip:** If you are behind the firewall, modify createCSVs.bat and add these Java options "-Dhttp.proxyHost=proxyhostURL -Dhttp.proxyPort=proxyPortNumber"

- 3. In case Amazon Web Server returns more Server Profiles, modify aws-classes.csv to specify Server Classes for the new server profiles.
- Run EM\_HOME/demos/cloud-pricing-import/import.bat to import updated CSV files. Alternatively, copy updated CSV files to your local machine and use Import Spreadsheet function to import them.

## 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.

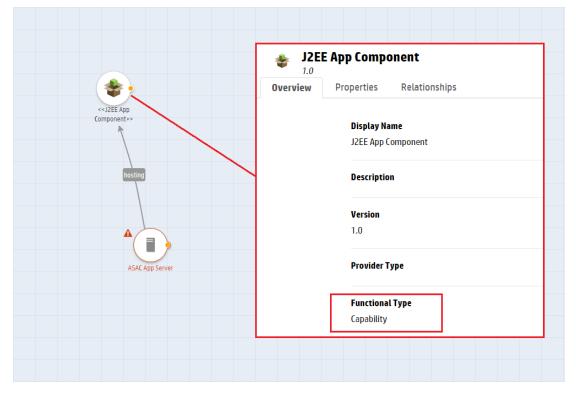
### Publishing from a CSA Reference Service Design:

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:



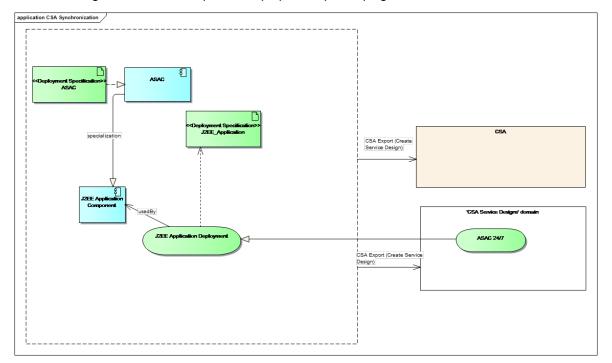
- Create a component called ASAC; the functional type for which is Concrete.
- Create another component called J2EE App Component; the functional type for which is Capability.
- Define J2EE App Component as the supported capability of ASAC.

🧑 Cloud Service Automation	Help	admin 🕶
C Topology Components		
SASAC 1.0 Overview Properties Relationships Operations Capability Characteristics		
Supported Capability		
SZEE App Component 1.0		
Property Mappings		
Capability Property Component Property		

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

C. Tandan Consump			
ropology components	< Topology Components		
Amazon Server			
Overview Properties Relationships Operations Capability Characteristics			
🔸 Outgoing To 🛛 🍫 J2EE App Component 1.0 hosting 🖉 🕺	Outgoing To     State App Component 1.0	hosting	×

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 Application Component Governed in Candidate stage (start at	c %22/15 1560 PM0
Overview	To migrate in 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 survey that will guide you through this process.
Documentation	Overvlew Financial Allgoment Business Allgoment Technical Allgoment Deployment Models
Cloud Transformation	Deployment Models An Application Deployment Models An Application Deployment Models are required for applications that are selected for cloud transformation and require automated applications that are selected for cloud transformation and require automated applications are provided and applications and applications and applications and applications and applications and applications applications and applications and applications applications and applications application
Financial Profile	Show more information
Tree View	Deptoyment Models: Link revu.link costing Reference Applications: J2EE Applications: J2EE Application Component
Lifecycle	CSA Service Designs CSA Service Design is a specialization of a deployment model that is used in HP CSA/Codor. You might pre-build a new CSA Service Design from a selected application deployment model.
Discussion	Deployment Model: Note available •
Show More	You can associate this application with its reference model. While defining a deplayment model/service design for such reference application, you can reuse the same deplayment model for multiple such applications, which share the same architecture.
	😘 Associate Application Reference Model 🔶 Create New Deployment Model

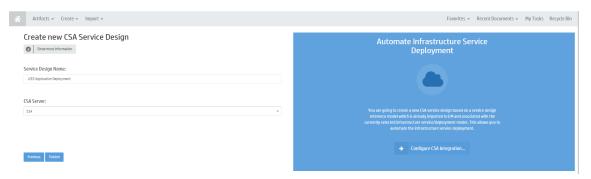
• Link J2EE Application Component to the imported infrastructure service (reference service design).

J2EE Application Component Application Component Governed in Candidate stoge (s	start dc 3/2/1/5 1-40 PM
Overview	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 fills in the survey: their will guide you through this process.
Documentation	Overvlew Financial Alignment Business Alignment Technical Alignment Deployment Models
Cloud Transformation	Deployment Models A Application Deployment Model decides an infrastructure serve together with various technologi-layer elements that provide run of the application. Deployment Models are required for applications that are selected for cloud transformation and require automated deployment, Woodes are required for applications that are selected for cloud transformation and require automated deployment.
Financial Profile	Show more information
Tree View	Deployment Modes: /2EE Application Deployment = Reference Applications: Link existing
Lifecycle	CSA Service Designs (SA Service Design is a specialization of a deployment model that is used in HP CSA/Codox. You might pre-build a new CSA Service Design from a selected application deployment model.
Discussion	Reference Service Designs: 1722 Application Deployment 📃
Show More	You can rebuild a Service Design for this reference model application. When doings as, 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, which represents this application component. Thereafter, which represents this application component. Thereafter, which represents this application component. Thereafter with the location only for the non-reference application component. You are possible with a new deployment model.
	Associate Reference Service Design

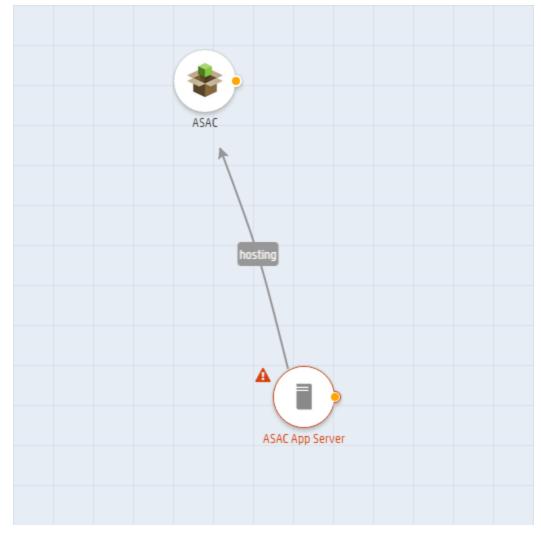
- Ensure that infrastructure service is linked to a deployment specification which contains JSON data
  of the reference service design.
- Go to Cloud Transformation > Deployment Models tab of ASAC application component. Select the deployment model to be published from the drop-down list, review its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

SAC pplication Component Governed in Condidate stage (start al: S	9/17/15 3:10 PM)				****			
Overview	To migrate an application into cloud you need to and performance requirements. To get this inform				ist support execution on a virtual machine on the other hand the target deployment environment must meet the application secu	rity		
Documentation	Overview Financial Alignme	ent Busines	is Alignment Technical Alignme	Deployment Models				
Cloud Transformation	Deployment Models An Application Deployment Model describes a deployment, they vary between working envi			er elements that pravide run of the applica	tion. Deployment Nodels are required for applications that are selected for cloud transformation and require automated			
Financial Profile	Show more information							
Tree View		v, Link existing p Component 🔤						
Lifecycle	CSA Service Designs CSA Service Design is a specification of a deployment model that is used in HP CSACodor. You might pre-build a new CSA Service Design from a selected application deployment model.							
Discussion	Deployment Hodel: J2EE	App Component > J2	EE Application Deployment					
Show More	J2EE Application Deploys Environments N/A Visualized by Oligorams Link net	ment						
	Create new ServiceDesign As	sociate Existing		can change the mapping, the CSA Topology	y Component column is editable.			
					Search @ Q			
	Application Model Element	Version		ISA Topology Component	Version			
		1.0		ASAC =	1.0			
	« ( o > )		and a second		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**.



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



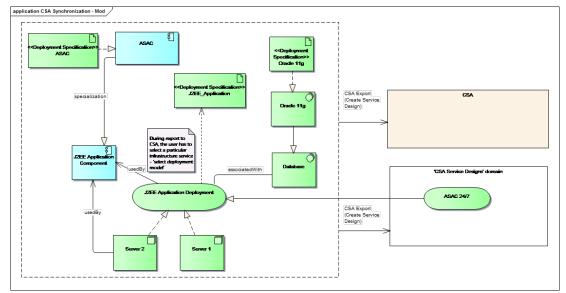
#### Publishing from a Deployment Model:

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:

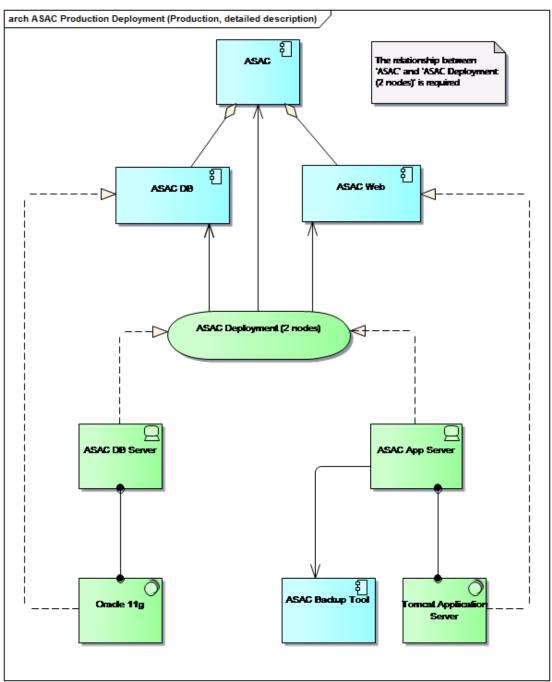
### Archimate Compliant Model

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 create a component for an application component or system software which is *specialized* by

Cloud Service Automation					Help	admin 👻	
< Topology Components	-	Create Topology Component		? 36			
		Display Name *	Image				
By Provider Type 🔹	📮 Ope	ASAC		Change Image	Search	Q,	
All Components		Description	Ť	Recommended dimension of 256x256. Maximum file size of 1MB.			
📬 Amazon AWS			Tags	Select Tags 👩		_	
🚭 Chef	- <del>2</del>	Version	No tags selected				
🚓 HP 3PAR		1.0					
		Functional Type				_	
HP CloudSystem 8.x	the second	Concrete •	0		This component is not supported on HP Helion OpenStack ver 1.1 or less.	_	
		Provider Type					
HP Database and Middleware Automation		(none) •					
HP Insight Control server provisioning				Create Cancel		_	
MP Matrix Operating Environment		Wate Network is a logical component over which a group	of virtual machines can communica	ite.			
HP Network Automation	0	penStack Router 15.07.0000					
🅼 HP OneView		Router is a logical component used to represent a router.					
HP Server Automation		penStack Security Group 15.07.0000 he Security Group is a logical component used to manage	incoming and outgoing traffic from	a naturali port			
HP SiteScope	- <u>66</u> "	ie seconty droup is a logical component oseo to manage	incoming and outgoing transcripting	a network port.			
(/) НР UCMDB		penStack Server 15.07.0000 erver is a logical component that represents a virtual mac	thine				
C HP Virtualization Performance Viewer		penStack Swift Container 15.07.0000					
🚺 OpenStack		pensitatik switt container 15.07.0000 ontainer is a logical component representing an object sto	ore				
Refresh	Create	Import			10 Tot.	al Items	

#### 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.

🅼 Cloud Service Automation					
C Topology Components					
ASAC DB 1.0 Overview Properties Relationships Operations Capability Characteristics					
◆ Outgoing To   ◆ ASAC 1.0	aggregates	× x			
← Incoming From	realizes	× ×			

#### 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. Currently supported data centers are: "Amazon AWS", "VMware vCenter" and "HP Cloud". 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.

Overview	Financial Align	ment Bu	usiness Alignment	Technical Alignment	Deployment Models					
Deploymen	t Models									
	ment Model describe			h various technology-layer elei	ments that provide run of the	application. Deployment Models are required for appl	ications that are selected for cloud transformation and require automated			
6 Show more in	formation									
Deployment Models:	ASA	ASAC Deployment 12 Nodes) =								
Reference Applications	: Link	new, Link existir	ng							
CSA Service	Designs									
	-	leployment mo	del that is used in HP CSI	N/Codar. You might pre-build a	new CSA Service Design from	a selected application deployment model.				
Deployment Model:	A	SAC Deployment	(2 Nodes) 🔻							
ASAC Deplo	yment (2 N	odes)								
Environments:	N/A									
Visualized by Diagrams	s: Link	new, Link existin	1g							
CSA Service Designs:	N/A									
-										
Create new Se	erviceDesign	Associate Exi	isting Service Design							
The following table of	hows the menning of	daploumant m	adal alamante to CSA Tor	ology Components, You can ch	ango the menning the CSA T	pology Component column is editable.				
The joildwing table 3	iows the mapping of	acproyment in	ouce clements to con roy	sology components. Fou can er	lange the mopping, the con n	pology component columns catable.				
							Search 🛞 🔾			
Application Model	Element			CSA To	pology Component					
Name		Version	Туре	Name		Version				
🐔 ASAC		1.0	Application Co	mponent 🗈 ASA	iC	1.0				
ASAC DB		1.0	Application Co	mponent 🗈 ASA	IC DB	1.0				
SAC Web		1.0	Application Co	mponent 🗈 ASA	iC Web	1.0				
💻 ASAC DB Server		1.0	Server	Depend	ls on datacenter					
💻 ASAC App Server		1.0	Server	Depend	ls on datacenter					
• Oracle 11g		1.0	System Softwa	are 🗈 Ora	cle 11g	1.0				
E ASAC Backup To	ol	1.0	Application Co	mponent 🗈 ASA	C Backup Tool	1.0				
Tomcat Applicat	ion Server	1.0	System Softwa	are 🗈 Tor	ncat Application Server	1.0				
« < •	>	»C					Displaying 1 - 8 of			
Create new S	ervice Design									

• 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	
Show less information	
Service Design Name:	
Name of the service design to be published to CSA.	
ASAC Deployment (2 Nodes) - Service Design	Automate Infrastructure Service
	Deployment
Infrastructure Service/Deployment Model:	
The infrastructure service 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.	You can create new CSA service design based on a given infrastructure service
Amazon AWS	that will be accommodated in the data center of your choice. This allows you to automate the infrastructure service deployment.
	מענטוואוב נוול ווווזמגנוטננטול צביאיגל עבאועניין איז
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 server.	
CSA ~	
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.

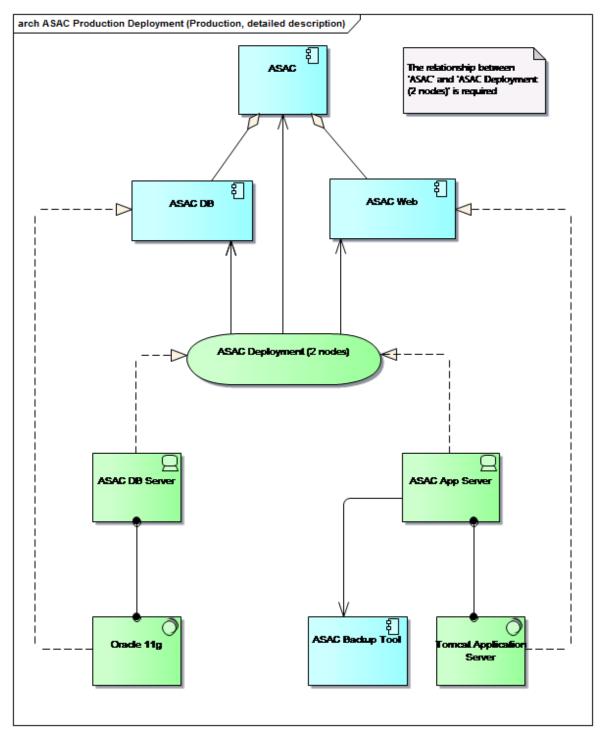
Summary	
Show more information	
Service Design Name:	
ASAC Deployment (2 Nodes) - Service Design	
Involved Application Components:	Automate Infrastructure Service
ASAC, ASAC DB, ASAC Web, ASAC Backup Tool	Deployment
Associated System Software:	
Oracle 11g, Tomcat Application Server	
Servers Used in the Design:	
ASAC DB Server, ASAC App Server	
Select Target Data Center:	You can create new CSA service design based on a guiern infrastructure service that will be accommodated in the data center of your choice. This allows you to automate the infrastructure service deployment.
Amazon AWS	
CSA Server:	
(SA	
Preiss Ratio	

**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.

### 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 Tool and Tomcat Application Server.

🅼 Cloud Service Automation				? ×	Help admin 🗸
< Topology Components	_				
By Provider Type	🗖 Ope	Display Name*	Image	<i>a</i>	Search Q
by Fronder Type	upe ope			Change Image Recommended	Juncii 🔍
All Components		Description	<b>W</b>	dimension of 256x256. Maximum file size of 1MB,	
📬 Amazon AWS			Tags	Select Tags 💿	
😳 Chef	ter a	Version	No tags selected		
😂 HP 3PAR	_	1.0			
•		Functional Type			This component is not supported on HP Helion OpenStack ver 1.1 or less.
HP CloudSystem 8.x	.66		0		This component is not supported on the netion operation, we had on teas.
(// HP Database and Middleware Automation	e constant	Provider Type (none)			
MP Insight Control server provisioning	, <u>55</u>			Create Cancel	
HP Matrix Operating Environment		wate Network is a logical component over which a group	of virtual machines can communica		
IP Network Automation	0	IpenStack Router 15.07.0000			
🅢 HP OneView		he Router is a logical component used to represent a rout	er.		
HP Server Automation		IPENSTACK SECURITY GROUP 15.07.0000 the Security Group is a logical component used to manage	incoming and outgoing traffic from	> natural part	
HP SiteScope	- <u>66</u> "	ne secondy droup is a logical component oseo to manage	incoming and outgoing transcription	a network port.	
🅢 НР ИСМОВ		IpenStack Server 15.07.0000 erver is a logical component that represents a virtual mac	hine		
C HP Virtualization Performance Viewer					
OpenStack		<b>IpenStack Swift Container</b> 15.07.0000 ontainer is a logical component representing an object sto	ore		
Refresh	Create	Import			10 Total Items

• 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.

Artifacts + Create + Import +	Favorites + Recent Documents + My Tasks Recycle Bin
Create new CSA Service Design  Show more Information	
Service Design Name: ASIC Production Desloyment	Automate Infrastructure Service Deployment
Select Infrastructure Service/Deployment Model: #SAL Deployment (2 notes) *	
Select Target Data Center: Amazon Aws ~	You can create new ESA service design based on a given infracthurture service that will be accommodated to the data center of your choice. This advance you to automate the infracturicate are vice supportent.
CSA Server: CSA at hppsvm233123.hppsvlabs.adapps.hp.com *	
Lance her	

Note: Currently, OpenStack Server is being used for HP Cloud data center.

- 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 DB to ASAC
  - Outgoing relationship from ASAC Web to ASAC
  - 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

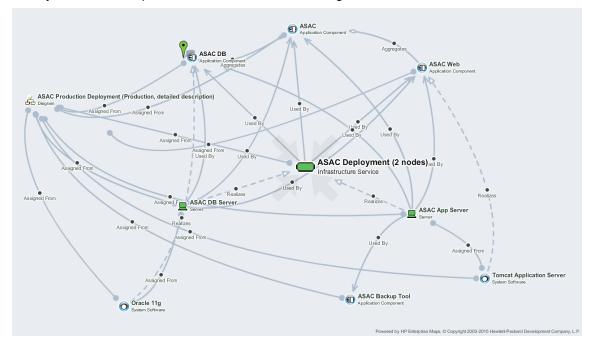
🅢 Cloud Service Automation		Help	admii	n •
< Topology Components				
Oracle 11g           1.0           Overview         Properties         Relationships         Operations         Capability         Characteristics				
← Outgoing To Amazon Server 15.07.0000	assignedFrom		×	×
→ Outgoing To SAC DB 1.0	realizes		×	×

### 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.

CSA at hpswvm233123.hpswlabs.adapps.hp.com CSA Repository						
Overview	🖌 🗙 📝					
Synchronized Artifacts	Domain Id: Mapping Configuration:	nvcuong's testing domain Default CSA Mapping				
	Base URL:	https://hpswvm233123.hpswlabs.	adapps.hp.com:8444/csa/login			
	Username:	admin				
Import from 'CSA at hpswvm233123.hpswlabs.adapps.hp.com' Tosk						
Imports data using 'CSA at hpswvm233123.hpswlabs.adapps.hp.com' csaRepository. Execution History						
	Started at 🗸	Result	Run Time	Details		
	11:58 AM	A Finished with Warnings	00:16:12	[#3,2015-08-25T11:58:12] in /usr/loc		
	Import from 'CSA at hpswvm233123.hpswlabs.adapps.hp.         Task         Imports data using 'CSA at hpswvm233123.hpswlabs.adapps.hp.com' csaRepository.         Execution History         Started at ~       Result       Run Time		r. Run Time	Details		

**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.

De Tos	leployment Specification Association Update Task							
	Deployment specifications that do not realize any architecture element are connected to a system software or application component of matching name and version, if such is found. Execution History							
	Stated at - Result Run Time Details							
	1:15 PM	✓ Finished	00:00:35	[#4,2015-08-25T13:15:09] in /usr/local/jenkins/workspace/nnlong_EM_hpswvm234247/trunk/target/hpem/L				

 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.

Deployment Model In Application Deployment Model a Ieployment, they vary between wo	escribes an infrastructure		ology-layer elements that provide run of the ap	lication. Deployment Models are required for applications that are selected for cloud transf	ormation and require automated		
Show more information							
eployment Models:	ASAC Deployment (2 Nod	(es)					
Reference Applications:	Link new, Link existing						
	n of a deployment model		ght pre-build a new CSA Service Design from a s	lected application deployment model.			
Deployment Model:	ASAC Deployment (2 N	lodes) 🔻					
ASAC Deployment (	2 Nodes)						
nvironments:	N/A						
	N/A Link new, Link existing						
invironments: /isualized by Diagrams: :SA Service Designs:							
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Visualized by Diagrams: (SA Service Designs: Create new ServiceDesign	Link new, Link existing N/A Associate Existin		ents. You can change the mapping, the CSA Topi	ogy Component column is editable.	Search 🛞 🔾		
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Isualized by Diagrams: SA Service Designs: Create new ServiceDesign he following table shows the map	Link new, Link existing N/A Associate Existii Ding of deployment model	L elements to CSA Topology Component	CSA Topology Component Name	Version	Search O		
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ssalized by Diagrams: SA Service Designs: Create new ServiceDesign Application Model Element Name ASAC M ASAC 08 M ASAC Web	Link new, Link existing NA Associate Existin aing of deployment model Version 1.0 1.0	I elements to CSA Topology Component Type Application Component Application Component	CSA Topology Component Name ASAC ASAC DB =	Version 1.0 1.0	Search 🛞 🔾		
sualized by Diagrams: SA Service Designs: Create new ServiceDesign create new ServiceDesign create new ServiceDesign Application Model Element Name C ASSC C ASSC VB C	Link new, Link existing N/A Associate Existi aning of deployment model Version 1.0 1.0 1.0	I elements to CSA Topology Component Type Application Component Application Component	C5A Topology Component Name ASAC D ASAC DB == D ASAC Web ==	Version 1.0 1.0	Search © C		
ssalized by Diagrams: SA Service Designs: Create new ServiceDesign Application Model Element Anme ASAC DB ASAC DB ASAC Veb ASAC APP Server ASAC App Server	Link new, Link existing N/A Associate Existin aping of deployment model Version 1.0 1.0 1.0	Type           Application Component           Application Component           Application Component           Server	C5A Topology Component       Name       A ASAC       A ASAC DB ==       A ASAC Web ==       Depends on datacenter	Version 1.0 1.0	Search I C		
ssalized by Diagrams: SA Service Designs: Create new ServiceDesign Application Model Element Asac ASAC ASAC ASA ASAC	Link new, Link existing N/A Associate Existin bing of deployment model Version 1.0 1.0 1.0 1.0 1.0	Type Application Component Application Component Server Server	C5A Topology Component       Name       ASAC =       ASAC B =       ASAC Web =       Depends on datacenter       Depends on datacenter       Depends on datacenter	Version 1.0 1.0 1.0	Search 🔘 🛛		
Isualized by Diagrams: SA Service Designs: Create new ServiceDesign he following table shows the map Application Model Element Name Assic SASAC DB	Link new, Link existing N/A Associate Existin aning of deployment model U U U U U U U U U U U U U U U U U U U	Type           Application Component           Application Component           Application Component           Server           Server           System Software	CSA Topology Component       Name       ASAC —       ASAC DB =       ASAC DB =       Depends on datacenter       Depends on datacenter       Depends on datacenter       Depends on datacenter	Version 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Search O C		

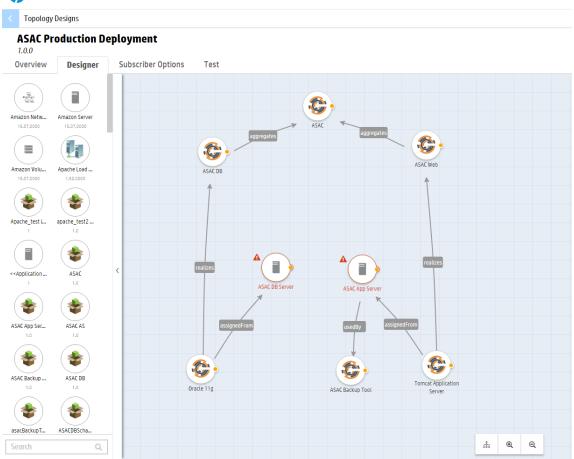
• Provide more information such as service design name, target data center which decides what server component is used to create the server components, etc. in the first step of the publishing wizard.

Automate Infrastructure Service Deployment
You can create new CSA service design based on a given infrastructure service that will be accommodated in the stata center of your choice. This allows you to automate the instructure service deployment.
Configure CSA Integration

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

Artifacts + Create + Import +	Favorites + Recent Documents + My Tasks Recycle Bin
Summary	
Show more information	
Service Design Name:	
ASAC Production Deployment	
Involved Application Components: ASAC DB, ASAC Web, ASAC, ASAC Backup Tool	Automate Infrastructure Service Deployment
Associated System Software:	
Oracle 11g, Tomcat Application Server	
Servers Used in the Design:	
ASAC DB Server, ASAC App Server	You can create new CSA service design based on a given infrastructure service
Select Target Data Center:	that will be accommodated to the data center of your chicks. This allows you to automate the infrastructure service deployment.
Amazon AWS	
CSA Server:	
CSA at hpswvm233123.hpswlabs.adapps.hp.com	
Previous Publish	

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



### Cloud Service Automation

**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 95
- "Keeping Track of Survey" on page 97
- "Reviewing Answers" on page 98
- "Taking a Self-Assessment Survey" on page 99
- "Monitoring and Managing Survey" on page 100

### 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.

<b>())</b> Enterprise Maps <sup>Ca</sup>	atalog Reports Navigator Administration	
☆ User Management ▼ Conf	iguration • Governance • Customization •	
General	Customize UI Manage Scripts	
Surveys	Name *	Applicable to Artifact
Reports & Portlets	Cloud Business Assessment 🐠 🖍 Business survey for Application Component	Application Component
	Cloud Financial Assessment 40 Financial survey for Application Component	Application Component
Data Sources	Cloud Technical Assessment 49 Fechnical survey for Application Component	Application Component
Data Import Definitions	Estimate Infrastructure for Applications 🚳 💉	Application Component
Lifecycle	Estimate Servers for Deployment Models ()	Application Component
	Migrate Applications into Cloud - Financial Assessment      Financial survey for Application Component	Application Component
System	Survey Example 40      Example survey for Application Component	Application Component

Enterprise Maps

About | Current Date: Jul 9, 2015 2:09:59 PM, ICT | Last Login: Jul 9, 2015 10:30:11 AM, ICT © Copyright 2003-2015 Hewlett-Packard Development Company, L.P.

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.

Business Layer
<ul> <li>Business Services</li> <li>Business Actors</li> <li>Business Roles</li> <li>Business Roles</li> <li>Business Roleaters</li> <li>Business Interfaces</li> <li>Business Objects</li> <li>Contracts</li> <li>Business Interactions</li> <li>Business Interactions</li> <li>Business Interactions</li> <li>Business Interactions</li> <li>Business Interactions</li> <li>Business Interactions</li> <li>Business Events</li> <li>Representations</li> <li>Maings</li> <li>Values</li> <li>Products</li> </ul>

- 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 Assessment Survey Definition			no votes *****
Overview	Start Survey 🖍 Edit		
Preview	Technical survey for Application Component		
Assessment Portfolio	Show more information     Applicable to Artifacts: Application Comp	ponent	
Access Rights	Target Contact Roles: Administrator, Ar Survey Designer: System	chitect, Business Owner, Developer, Operation	is Manager, Project Manager, Provider, Technical Support
	Executed/Running Surveys		
	You can manage individual ongoing surveys. Surveys a depending on whether they have reached the timeline.		oondents are displayed in green and the ones which are incomplete are displayed in yellow or red
	Mark Completed K Cancel Survey		Search 💿 🔾
	□ Name ↑ Date Started E	xpected Completion Date Progress	Status
Start survey 'Cloud Techni You must enter some basic information and select the ar and can be optionally notified over email. Click 'Preview' Show more information Name of the survey:	acts you wish the survey to be processed for. List o	of respondents is calculated	
			Cloud Technical Assessment
Expected Completion date: 07/12/2015			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 July 12, 2015
			→ Learn More
Send Email Notifications			
☑ Owner as respondent if no other contacts	ailable		
Cancel Next			

4. Click **Next** and select the artifacts to be included in this survey.

#### Start survey 'Cloud Technical Assessment'

Select the artifacts you want to be surveyed. You see all that haven't been surveyed yet and you can switch the table to display all and further filter the list. If you are missing some artifacts, import them from external sources.

✓ •		Name 🔺	Version	Owner	Artifact Type	Domain	Lifecycle Stage
							-
✔ :ronym:	AGALia:	Agresso s: AgressPurpose: Nullam scelerisque nunc sed nu	3.1 nc euismod placerat.	L Nicole Smith	Application Component	Demo Example Domain	Candidate
✔ :ronym:	☆ ARPurp	Analyst Research pose: Sed commodo orci et felis consequat at euisi	0.2 nod erat tempor.	L Nicole Smith	Application Component	Demo Example Domain	Candidate
	$\stackrel{\circ}{\simeq}$	ASAC	1.0	L Joseph Banks	Application Component	Demo Example Domain	Cancelled
🖌 can App		ASCENT for Document Scan Server	1.0	Administrator	Application Component	Demo Example Domain	Production
✓	Å	ASE Instance	1.0	<b>Administrator</b>	Application Component	Demo Example Domain	Production
1	$\stackrel{\frown}{\simeq}$	BE1	1.0	L Mary River	Application Component	Demo Example Domain	Retired
✓	☆	BE2	1.0	L Mary River	Application Component	Demo Example Domain	Retired
<b>7</b>	$\stackrel{\frown}{\sim}$	BE3	1.0	L Mary River	Application Component	Demo Example Domain	Retired
✓	Ŵ	BE4	1.0	L Mary River	Application Component	Demo Example Domain	Retired
~	\$	Billing Services	5.2	L Joseph Banks	Application Component	Demo Example Domain	Candidate

**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 Finish.

### Start survey 'Cloud Technical Assessment'

You are about to start a survey 'Cloud Technical Assessment' that:

Surveys information about 196 artifact(s) Affects about 7 people Each survey wizard contains 25 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 respondents calculated on artifact contacts and ownership.

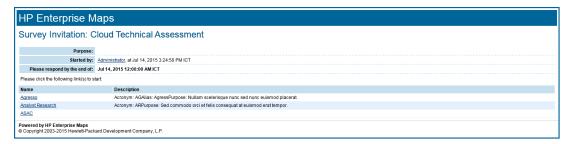
×	🗙 Remove from Survey Search 💿 🔾				
	Name	Version	Respondents	Status	
⊻	Doc Center	4.2	O Andy Miller	🔺 Not Started	
	Visual Studios	6.3	Open in Catalog	🔺 Not Started	
	DMS	7.4	Remove Respondent	🔺 Not Started	
	Care Manager	7.2	Joseph Banks	🔺 Not Started	
	Service Configuration System	1.0	😂 Administrator	🔺 Not Started	
	eShipping	2.2	😑 Andy Miller	🔺 Not Started	
	CRM	1.0	😑 Dave Olson	🔺 Not Started	
	LOIP DB	1.0	Nicole Smith	🔺 Not Started	
	OSS OE	1.0	😂 Administrator	🔺 Not Started	
	Agresso	3.1	Nicole Smith	🔺 Not Started	
<		C		Displaying 1 - 10 of 196	

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				
	II-in a survey for the 'Agresso' Applic teps you will be asked about some details for the artifact described		nt	Open in Catalog
	Agresso 3.1	Lifecycle Stage	Candidate	
	Demo Example Domain Acronym: AGAlias: AgressPurpose: Nullam scelerisque nunc sed		Administrator	
Cloud Technical Assessment				
Technical survey for Application Component				
→ 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.

Enterprise Maps	Catalog Reports Navigator Ad	dministration	Eliter	text to search in catalog	Q Auministrati Default Doma
Artifacts 👻 Create 👻	Import +			Favorites 👻 Recent Doc	uments 👻 My Tasks Recycle B
grate Applications into	Cloud - Business Assessment	- 2015			****
erview	Mark Completed	🗙 Cancel Survey 💉 Edit			
cess Rights	Nigrate Applications into Cloud - Status:	- Business Assessment - 2015 Not Completed			
	Survey Definition:	Cloud Business Assessment			
	Survey Progress:	14/60			
	Start Date:	May 28, 2015 2:51:20 PM			
	Expected Completion Date:	Jul 31, 2015 5:00 AM			
	Surveyed Artifact	ts			
		rveyed follows. You may concel the survey for selected artifacts if you are no longer interested Stated" when none of them answered.	in filling the survey wizard for them. Status of an arti	ifact in the survey is 'Completed' when all the respondents and	swered, 'Not Completed' when at least on
			in filling the survey wizard for them. Status of an art	ifort in the survey is 'Completed' when all the respondents and	
	respondent onswered and Not S				Search Ø
	respondent answered and Not 5  Remove from Survey  Name		Version	Respondents	Search @
	respondent answered and Not S Remove from Servey Name † Appesso		Version 3.1	Respondents • Necle Smith	Search ③ Status A Not Started
	respondent answered and Not S Kenever from Survey Name † Apresso ASMC		Version 3.1 1.0	Respondents	Search © States Not Started © Completed
	respondent onswered and Not 5		Version 3.1 1.0 1.0	Respondents	Search © Status  Status  Not Started  Completed  Not Started
	respondent assured and Not 5  respondent assured ass		Version 3.1 1.0 1.0 1.0	Bregendents • Nucle Statil • Arenzonders, © Savit, © savin • Open in Catalog • Remove Respondent	Search  Staturs  Staturs  Completed  Completed  Not Started  Not Started
	respondent answered and Not 5		Version 3.1 1.0 1.0 1.0 5.2	Bregendents • Nucle Statil • Arenzonders, © Savit, © savin • Open in Catalog • Remove Respondent	Search () Statue () Not Started () Not Started () Not Started () Not Started () Not Started
	respondent answered and Not 5  Kammer ham Sarvey  Name 1  Appress  AS4  AS42  AS42  Billing Services  C40 System		Venim 3.1 1.0 1.0 5.2 2	Brogendrets • Vecto Sente • determinite , dans, dans • Open in Catalog Remove Respondent • Take Survey	Search.
	respondent assureed and Not 5  Respondent assureed and Not 5  Respondent assureed and Not 5  Respondent assurements  Responden		Venim 3.1 1.0 1.0 5.2 2 2 3.1	Respondents	Search.   States  Konstance  Kons
	respondent assured and Not 5 Manne 1 Appresio Addension Addension Addension Addension Composite Store Composite Store Composite Store		Version 3,1 3,1 1,0 1,0 5,2 2 3,1 1,0 1,0	Brogandrats           © force stath           © Admentation (0)           © Deen in Catalog           © Remove Respondent           Take Survey           © Jongh Rent           © Jongh Rent           © Jongh Rent           © Jongh Rent           © Jongh Rent	Search.

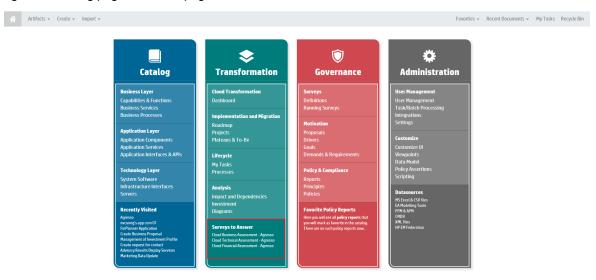
b. A Survey Manager or a user with 'write' permission for the current survey can also undertake the survey on behalf of other respondents. Simply, click the particular respondent's name and select the option **Take Survey on behalf of [respondent name]**.

	Reports Navigator Administration	Enter text to search in o	catalog C	Administrator 🖉 🖉 🖉
Artifacts = Create = Import =			Favorites 👻 Recent Documents	👻 My Tasks Recycle Bin
Migrate Applications into Cloud - I	Business Assessment - 2015			no votes
Denterprise Maps Catalog	Reports Navigator Administration	Enter text to search in	catalog	Q 🔮 Administrator Default Domain 🔻
Artifacts + Create + Import +			Favorites 👻 Recent Document	s 👻 My Tasks Recycle Bin
Migrate Applications into Cloud -	Business Assessment - 2015			ne votes ★ ★ ★ ★ ★
	🐨 Mark Completed 🗙 Cancel Survey 🖋 Edit			
Access Rights	Ngyata Applications into Cloud - Business Assessment - 2015 Strain: United Cloud - Business Assessment Survey Antonians: United Strains Assessment Survey Antonians: United Strains Survey Antonians: Uni			
	Expected Completion Date: 2013, 2015 500-244 Surveyed Artifacts The Date of the ended Politics. You may cancel the survey for selected artifacts if you are no longer interested in filling the survey waters respondent assured and Not Startef when noise of them answerd. The The Date of the ended Politics. You may cancel the survey for selected artifacts if you are no longer interested in filling the survey waters are politicated assured and Not Startef when noise of them answerd. The Date of the ended Politics. The Date of them answerd and Not Startef when noise of them answerd.	for them. Status of an artifact in the survey is	Completed when all the respondents answered,	Not Completed' when at least one
	Expected Comprehend Date: Jul 31, 2015 500 AM Surveyed Artifacts The list of the attifacts the surveyed follows. Two may cancel the survey for selected attifacts if you are no longer interested in filling the survey wickow respondent answered and Thot Startief when nonse of them answered.	Version Respondent	5	
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	Expected completion bate: 34.3,2015 500.044  Surveyed Artifacts  Response of the survey large selected antifacts of you are no langer interested in filling the survey waters  response of them name of the n	Version         Respondent           3.1         • Notele Serie           1.0         • Administration           1.0         • Administration           1.0         • Administration           1.0         • Administration	s Tr er (g) statut, g) susan er	Search
	Expected completion basis:     but 31, 2015 StotAM       Structure ged Artification is survey of them none of the	Version         Respondent           3.1         • Notal Sett           1.0         • Administra           1.0         • Administra           1.0         • Administra           1.0         • Administra           5.2         • Into Year	s n er, © dante, © unan ar ar ar	Status Status Not Started Completed Not Started Not Started Not Started
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## 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.



#### Tasks page

Artifacts • Create • Import •		Favorites *	Recent Documents 👻 My Tasks Recycle Bin
Tasks Survey Tasks	٩		
Task	Artifact	Artifact Type	Created -
Cloud Financial Assessment - Agresso	Agresso	Application Component	Mon Aug 03 14:09:20 ICT 2015
Cloud Technical Assessment - Agresso	Agresso	Application Component	Mon Aug 03 14:09:13 ICT 2015
Cloud Business Assessment – Agresso	Agresso	Application Component	Mon Aug 03 14:09:07 ICT 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.

Artifacts - Create - Import -			Favorites 👻 Recent Documents 👻 My Tasks Recycle Bin
Tasks Pending (All)	٩		
Task	Artifact	Created -	Source
Migrate Applications into Cloud - Technical Assessment - 2015	Agresso	11:27 AM	😇 Survey Task
Migrate Applications into Cloud - Technical Assessment - 2015	ASCENT	11:25 AM	Survey Task

## **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

Artifacts + Create +	Import +				Recent Documents + My Tasks Recycli
grate Applications int	o Cloud - Business Perspective				***
	Mark Completed	I 🗙 Cancel Survey 🖌 Edit			
ess Rights	Migrate Applications into Close Status	d - Business Prespective Assessment - 2075 Net Geneleted			
	Survey Definition:	Migrate Applications into Cloud - Business Perspective Assessment			
	Survey Progress:	14/80			
	Start Date:	May 28, 2015 2:51:20 PM			
	Expected Completion Bate:	Jul 31, 2015 5:00 AM			
		Started when nobody answered.			
	X. Remove from Survey	Started when nobody answered.	Verla	Burnelere	Search
	St. Remove from Servery Namo ↑	Stander when nobody answered.	Wordan	Respandents	Status
	X. Remove from Survey		Verdas 3.1 1.0		Status Not Statud
	Remove from Servey     Remo †     Agresso     Open in Catalo		3.1	O Nicole Smith	Status
	X Resource from Servery     Known †     Agreend     Open in Catalo     Add Responde	ng mg	3.1 1.0	Nicole Smith     Administration, O Gavid, O subari	Stratus  Not Started  Completed
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	X Resource from Servery     Known †     Agreend     Open in Catalo     Add Responde	ng mg	3.1 1.0 1.0 1.0	Administrator (Constraint)     Administrator (Constraint)     Administrator     Administrator     Administrator     aux Frozer, O ber Balley, C Bare Eller     Visca Seth	Starred Not Started Completed Ator Started Not Started
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#### 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**.

					Enter tex	tt to search in catalog	Q & Administrat
		Answers for 'ASAC' Application Component			00		
		Question	Administrator	david	susan		
		= 1 Regulatory					
	Mark Completed	1 Is the application subject to regulatory requirements (FISMA, HIPAA, ISO	No	Bon't know	No		
		2 Does the application have to run on a government certified operating s		No	No		
iccess Rights		3 Are there regulatory requirements requiring the data to be restricted to	Don't know	No	Yes		
		😑 🕀 Vendor Supporτ					
		4 Does the vendor of this application fully supports runing it in a virtualiz	Yes	Yes	Don't know		
		5 Is the application required to run on a vendor certified operating syste	Yes	No	No		
		6 Is the application required to be hosted in the vendor environment ?	Yes	No	No		
	Surveyed Artifac	7 Are there any licensing restrictions that prevent this application from ru	Yes	Don't know	No		
						n the survey is 'Completed' when all the respondents answe	ed, 'Not Completed' when at least one
	respondent answered or 'Not S	a is the geographic total an or the aster base a total in your appoint total in the		Don't know	Don't know		
		9 Is the application hosted in multiple geographic locations ?	No	No	No		
	🔀 Remove from Survey	= 💽 Service Availability					
	Name †	10 What availability service level is required ?	>99.9%	>99.9%	>99.9%	Respondents	
		11 Are the public cloud providers server disaster procedures enough to fit	No	No	No	O Nicole Smith	
		😑 🛅 Workload Variability				🔿 Administrator, 🔿 david, 🔿 susan	
		12 Does the application have workloads with unpredictable peaks in dema	Don't know	Don't know	No		Completed
		13 Does the application have spiky or cyclic usage profiles ?	No	No	No	😂 Administrator	Not Started
		= 🙆 Security				😑 Administrator	🔺 Not Started
		14 Does your organization have any security policies that would prevent a	Don't know	No	Don't know	😑 Jack Foster, 😄 Bev Balley, 😄 Dave Olson	
		15 Will the level of security of standard internet connectivity be sufficient f	No	Yes	No	Nicole Smith	
		16 Does the application need to use encryption for communication ?	Don't know	No	No		
		17 Does the application's data storage need to be encrypted ?	No	No	No	Joseph Banks	Not Started
		18 Does your existing security model use proprietary authentication and a	No	Bon't know	n OK	😑 Andy Miller, 😋 susan, 😋 Administrator	🔺 Not Completed
				Take Survey Agai	UK	🔿 susan, 🔿 david	Completed
							Not Started

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## 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'

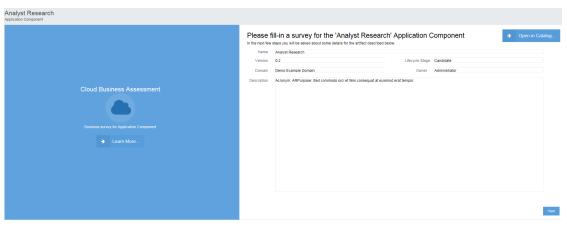
• In Technical Alignment UI: survey 'Cloud Technical Assessment'

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.

Analyst Research Application Component Governed in Candidate stage (start al: !				
Overview	To migrate an application into cloud you need to verify to requirements. To get this information fill-in the surveys			port execution on a virtual machine on the other hand the target deploym
Documentation	Overview Financial Alignment	Business Alignment	Technical Alignment	
Cloud Transformation	Business Alignment Defines alignment of this entity with possible cloud based on a survey Cloud Business Assessment,	deployment from the business	perspective using a score of 0-100. These scores are calculated	Workload Variability. 100 Geography
Financial Profile	Show more information	Survey		90 60 30
Tree View	Regulatory Alignment: 44 Vendor Support Alignment: 54			Security <b>a</b> Regulatory
Lifecycle	Service Availability Alignment: 44 Security Alignment: 23			
Discussion	Workload Variability Alignment: 70 Geography Alignment: 11			Service Availability Vendor Support
Show More	ucugiupiny mignificante II			

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.

Business Layer		Application Layer	Te	echnology Layer		Motivation	Implementation and Migration	Content	
Business Services     Business Actors     Business Roles     Business Roles     Business Interfaces     Business Interfaces     Locations     Dual Centers     Business Diplets     Contracts     Business Functions     Business Interfacions     Business Interfacions     Business Interfacions     Business Interfacions     Business Levents     Representations     Meanings     Values     Products	<b>\$</b> \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Application Functions     Application Services     Application Services     Application interactions     Application Components     Application Collaborations     Application Interfaces     Data Objects			0.4.4.0.0.4.0.0.0.0.0.0.0.0.0.0.0.0.0.0	<ul> <li>Requirements</li> <li>Proposals</li> <li>Constraints</li> <li>Principles</li> <li>Goals</li> <li>Assessments</li> <li>Drivers</li> <li>Stakeholders</li> </ul>	<ul> <li>Deliverables</li> <li>Work Packages</li> <li>Programs</li> <li>Projects</li> <li>Financial Planning</li> <li>Si Financial Profile</li> <li>Application Component</li> <li>Financial Profile</li> <li>Plateaus</li> <li>Gaps</li> </ul>	Contacts  Organizational Units  Persons  Courmentation  XML  SVG Files  Groupings  Junctions  Diagrams  Surveys  Surveys  Excel/CSV Import Templad	tes

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

Technical Survey Survey				
Overview	Mark Completed X Canc	tel Survey 🖌 Edit		
Access Rights	Survey Progress: 0/145 Start Date: Jul 14, 2015 Expected Completion Date: Jul 14, 2015 Surveyed Artifacts	klad Australment 1956/07 PM w may cancet the survey for selected artificats if you are no longer interested in filling th	ie survey without for them. Status of an artificit in the survey is "Completed" when all the respondents answered,	Not Completed" when at least one respondent
	🗶 Remove from Survey			Searth 💿 Q
	Name †	Version	Respondents	Status
	Brand Identity	6.2	G Mary River	A Not Started
	BrandMart	9.1	O Dave Olson	A Not Started
	Business Availability Monitoring	1.0	Administrator	Not Started
	Business Objects	7.4	Mary River	A Not Started
	CCM Core	1.0	O Administrator	Not Started
	CCM Web	1.0	C Joseph Banks	🔺 Not Started
	Central	1.0	Administrator	🔺 Not Started
	Central Backend	1.0	O Joseph Banks	Not Started
	Central DB	1.0	\ominus Joseph Banks	🔺 Not Started
	🖂 Central GW	1.0	G Joseph Banks	Not Started
	« < • > »	C		Displaying 1 - 10 of 145

- 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

HP 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 104
- "How to Use Events" on page 105
- "How to Use Tasks" on page 107
- "How to Use Ratings" on page 108
- "How to Use Feeds" on page 108
- "How to Share Artifacts" on page 110

HP 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 104.

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 105.

Tasks

Tasks provide you with updates for lifecycle and contract tasks assigned to you. For details, see "How to Use Tasks" on page 107.

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 108.

Feeds

HP 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 108.

Sharing

HP 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 110.

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

### How to Use Comments

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

The Artifact View page Overview tab includes a Discussion component showing the last few comments.

### Discussion

Comments for Artifact (1 Comment) Last Comment: Administrator, 3:27 PM

### **Enter Discussion**

Click a thread title to enter that discussion or click **Enter Discussion** to open the Artifact Details Discussion tab.

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



Comments for Artifact Administrator, 3:27 PM

The data needs to be analysed.

🗲 Reply 💉 Edit 🗙 Delete

You can organize the Artifact View Discussion 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 <sup>1</sup> 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 108.

### How to Use Notifications

HP 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.

**Notification Recipients** 

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 contact relationship or listed in the artifact stakeholder property. For details, see "How to Manage Contacts" in the UG. The Contacts recipient group can be refined into selectable contact roles.
Other Recipients	Click <b>Add Other Recipients</b> 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 <b>Consumers</b> is selected, then the consumers of previous versions are notified.

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*.

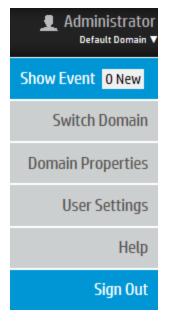
## How to Use Events

HP 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 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 component and the Artifact Details page Events tab.

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



The Artifact Overview Events component displays actions performed on the artifact with a **More...** link to the Artifact Events tab.



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:

ents	×
or homepage and event notifications. You can define important events; i.e. set event	
5 🗸	
○ Current	
○ Show All ④ Hide My Actions ○ Hide All	
○ Show All ④ Hide My Actions ○ Hide All	
○ Show All ④ Hide My Actions ○ Hide All	
● Show All ○ Hide My Actions ○ Hide All	
○ Show All ○ Hide My Actions ④ Hide All	
	<ul> <li>In homepage and event notifications. You can define important events; i.e. set event</li> <li>Summaria Current All Domains</li> <li>Show All Hide My Actions Hide All</li> </ul>

Edit Configuration - Events					
This configuration is shared t visibility.	for homepage and event notifications. You can define important events; i.e. set event				
Number of Events:	5 🗸				
Domain:	○ Current				
Event Notifications Enabled:					
Visibility					
Contracts:	○ Show All ④ Hide My Actions ○ Hide All				
Lifecycle:	○ Show All ④ Hide My Actions ○ Hide All				
Artifact Changes:	○ Show All ④ Hide My Actions ○ Hide All				
Task Reports:	● Show All ○ Hide My Actions ○ Hide All				
Comments:	○ Show All ○ Hide My Actions ④ Hide All				

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

### How to Use Tasks

As a user in HP 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.

Favorites 🔻 Recent Documents 💌 My Tasks Recycle Bin

### 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.

Tasks	Pending (All)	٩		
	Pending (All)			
Task	Lifecycle Tasks		Created	Source 🔺
	Lifecycle Requests		-	
	siness requirements entation of Business Requirements type	Identity Management S	5/28/2014	🖻 Lifecycle Task
	siness requirements entation of Business Requirements type	Advisory Results Displ	5/28/2014	🖻 Lifecycle Task
	siness requirements entation of Business Requirements type	CustomerFAQ	5/30/2014	🖻 Lifecycle Task

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

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

HP 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".

Services	All		٩	Filter▼			
1	×						
-	Name 🔺	Version	Domain		Rating	Package	
						-	
	Accounting	1.0	Demo Example	Domain			
	Advisory Results Display Services	1.0	Demo Example	Domain			
delete print	Advisory Results Report Services	1.0	Demo Example	Domain			
	Arrangement of meeting with BaPo	1.0	Demo Example	Domain	1	OK Cancel	

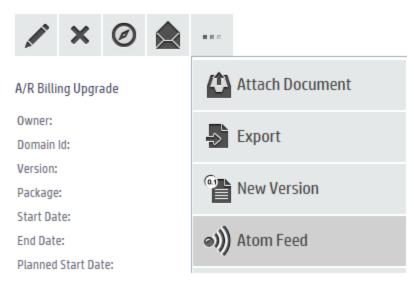
## How to Use Feeds

HP 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:

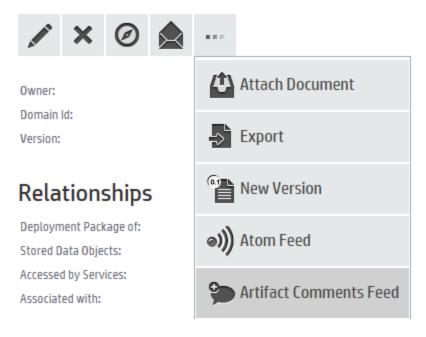
Individual Artifact Feeds

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 tab to obtain the URL for the feed.



Overview	≫ ● × 📋
Documentation	Artifact Comments Feed (ATOM Feed of the Artifact Comments) Administrator, 9:22 AM
Tree View	This artifact is linked to several other documents.
Lifecycle	← Reply 🖍 Edit 🗙 Delete
Discussion	

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

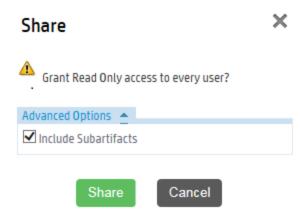
By default, the separation of the Catalog into domains and default security mean that artifacts are only visible to users who need to see them. However, there are situations where you want to make an artifact visible to all users, for example, when a service goes into Production.

HP 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 HP 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.



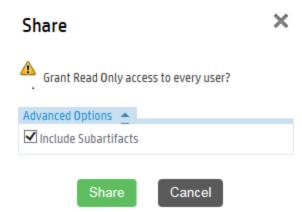
4. Click **Share** to make the artifact visible to all users.

### 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
✓ 5	Change Owner	1.0	Demo Example Domain
	Change Access rightse-attrib	1.0	Demo Example Domain
5	Change Domain	1.0	Demo Example Domain
	Share		
	Unshare		

2. *Optional*: Expand **Advanced Options** and select **Include Subartifacts** to also share sub-artifacts in the artifact aggregates.



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 HP 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 *Developer Guide*.

To populate a simple collection from a spreadsheet file, a good practice to begin with is to create one artifact in the HP 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 HP 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 HP 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" below
- "Importing Spreadsheet Files" on page 115
- "Managing Template" on page 118

## Exporting CSV Files

### To export CSV data from HP 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 and 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.

DEnterprise Maps Catalog Reports Navig	gator Administration			Q Business Fur	nction	×		admin Iefault Domain 🔻
Artifacts • Create • Import •				Separation of busine Principle Version 1. Applications remain v	ess functions .0 within the limits of business function:	5	My Tasks	Recycle Bir
Option B: Using the Catalog	Search Pa	ge						
Search								
T business function								
Artifact Type: < Any >	Y							
Keywords:	Ŧ							
Last Modified: Any Time	v							
Comain: < All Domains >	v							
Add Criteria Search Save	Load Clear							
🖉 🗶 🚥								

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 Au		▼ Filter ▼		
🗎 💉 🛩				
Name Synchronize	Version	Domain	Rating	Lifecycle Stage
Export				
Asset Cranting Governance	1.0 of the enterprise. Asset Management processes manage all financial and policy aspects of the processes plan for future needs and coordinate with the Supply Chain	Demo Example Domain physical assets of the enterprise (corporate real-estate, fleets, infrastr Development & Management processes for all aspects related to purch	***** cture, stocks, consumables, etc.), they set asset asing.	
	1.0 Board that the enterprise processes and controls are effective and conform to relevant adopted sed or internally adopted). Audit Management processes may be managed by external independer			terprise operational processes and controls are effective and conform to

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 HP EM. It helps you to learn how to link the data in specific columns to properties, relationships, etc.

Fil	e Ho	me Inse	ert Page	Layout	Formu	ılas D	ata	Review	View	1				
Ê	丨 👗 Cut	y Ŧ	Calibri		* 11 *	A A		= =	\$%	📑 Wrap		Genera	I	*
Past	e 🛷 Forn	nat Painter	BI	<u>1</u> - [	<u></u> -   🏷	• <u>A</u> •	Ē	= =		•a• Merg	e & Center 🔻	\$ -	% , .	00.00 00 *.0
	Clipboard	Ei.		Fon	t	- Gi			Alignme	ent	6	i I	lumber	- Ea
	A1		• (=	$f_{x}$	business	Function	Statu	s						
$\square$	А	В	С	D		Е			F		G			
1	ousinessF	revision	domainId	owne	r des	ription		keywor	d		revisionCr	name		
2		2	defaultD	admi	n Man	age all f	inanc	ial and p	olicy as	pects of t	admin	ASSETS N	MANAGEN	IENT
3														
4														
5														
6														
7														
8														
9														

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 HP EM.

X	📙 🧐 🗸 (	×∥∓				-	_	_	_		busin	essFunct	ionArtifact	<ul> <li>Microsoft</li> </ul>
F	ile Ho	me Inse	ert Page	Layout	Formulas D	ata	Review	v View	1					
ľ	Cut		Calibri	Ŧ	11 · A A	=	= =	≫,-	📑 Wrap	Text	Gen	eral	Ŧ	< <u>+</u>
Pa	ste 🦿 🛷 Forr	y ♥ mat Painter	в <i>I</i> ц	I -   🔛	• <u>A</u> •	E	≣≣		•a• Merg	e & Center 🔻	\$	× %	•.0 .00 •.€ 00.	Conditio Formattir
	Clipboard	l G		Font	Fa			Alignm	ent	5	i i	Numb	er 🖓	
	H14		• (=	<i>f</i> ∗ Ar	nalyze Usage Re	cords	;							
	Α	В	С	D	E			F		G				н
1	businessF	revision	domainId	owner	description		keywo	rd		revisionCr	name			
2		2	defaultDo	admin	Manage all fi	inanci	ial and p	oolicy as	pects of t	admin	ASSET	S MAN	AGEMENT	
3		2	defaultDo	admin	Provide assu	rance	e to seni	ior mana	gement a	admin	AUDIT	MANA	GEMENT	
4		4	defaultDo	admin						admin	Acces	s Contr	ol	
5		2	defaultDo	admin	Record all pe	ertine	nt custo	omer dat	a. Ex	admin	Acqui	re Cust	omer Data	
6		3	defaultDo	admin						admin	Advis	ory Eng	ine	
7		2	defaultDo	admin	Identify					admin	Alloca	te & In	stall Resou	rce
8		2	defaultDo	admin	Issue identif	iers f	ornew	services	and to m	admin	Alloca	ite Spec	ific Service	e Paramet
9		2	defaultDo	admin	Ensure that a	ons	sistent o	ustomer	risk asse	admin	Analy	ze & Ma	anage Cust	omer Risk
10		2	defaultDo	admin	Analyse &am	np; Re	eport S/	P Interac	tions pro	admin	Analy	ze & Re	port S/P In	teraction
11		2	defaultDo	admin	Perform all n	eces	sary ana	alysis on	closed re	admin	Analy	ze & Re	port on Cu	stomer
12		2	defaultDo	admin	Analyse and					admin	Analy	ze Reso	urce Perfo	rmance
13		2	defaultDo	admin	Assess the e	ffecti	veness	of the se	rvice by	admin	Analy	ze Serv	ice Quality	
14		2	defaultDo	admin	Generate rep	oorts	on usag	e record	s based o	admin	Analy	ze Usag	e Records	
15		2	defaultDo	admin	Ensure that t	he cu	stomer	receives	s an invoi	admin	Apply	Pricing	Discountin	ng & Reba
16		2	defaultDo	admin						admin	Appro	ve Pro	duct Busine	ess 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 HP EM repository.

### **Preparing Spreadsheet Files**

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

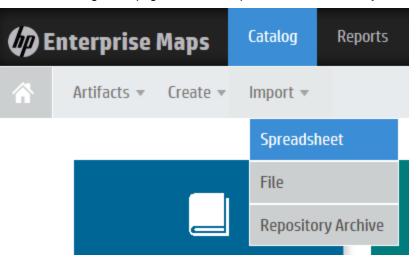
- Use *Download Template to Get Started* to download from a spreadsheet artifact. For more details, see the section *To download Excel/CSV Import Template* in "Managing Template" on page 118.
- Use Save as CSV. For more details, see "Exporting CSV Files" on page 113.
- See EM\_HOME/client/demo/import 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

HP 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.



2. 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 the data in CSV/XLS/XLSX spreadsheet files and import them into HP EN later on. You can also export 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.

### Spreadsheet Import

You can prepare the data in CSV/XLS/XLSX spreadsheet files and import them into HP EM later on. You can also export data from other systems and import them into EM in CSV format.

A Download Template to Get Started		
Upload Data		
You can override the default behavior of the impor	io that you can overcome problems with different input formats and redefine behavior of overwriting data that already exist in HP EM.	
Artifact Type:	<autodetect></autodetect>	
Column Separator:		
Value Separator:	I	
Date Format:	yyyy-MM-dd HHimmess	
Artifact Processing Mode:	Create new and update existing      Create new only	
Relationship Processing Mode:	Additive O Force CSV given values	
Property Processing Mode:	Ignore empty values in the import file O 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.

mport Spreadsheet						
Finished (started by Administrator , 9:18:20 AM) 3 successful.						
/ *						
Name	Туре	Domain	Owner	Origin	Status 🗸	Processed At
Artifact 'App DB Sample' import. Artifoct 'App DB Sample' has been imported. Performed actions 'UPDATE'.	Application Component	Default Domain	Administrator	applicationComponentArtifact.csv	Updated	9:18 AM
Artifact 'App AS Sample' import. Artifact 'App AS Sample' has been imported. Performed actions 'UPDATE'.	Application Component	Default Domain	Administrator	applicationComponentArtifact.csv	Updated	9:18 AM
Artifact 'App Sample' import.  Artifact 'App Sample' has been imported. Performed actions 'UPDATE'.	Application Component	Default Domain	L Nicole Smith	applicationComponentArtifact.csv	Updated	9:18 AM

### 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.

- 3. Type the command with at least host, user, password, sdmName and file parameters to your environment. For example: "csvimport -host http://hpdemo/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 HP EM collection.

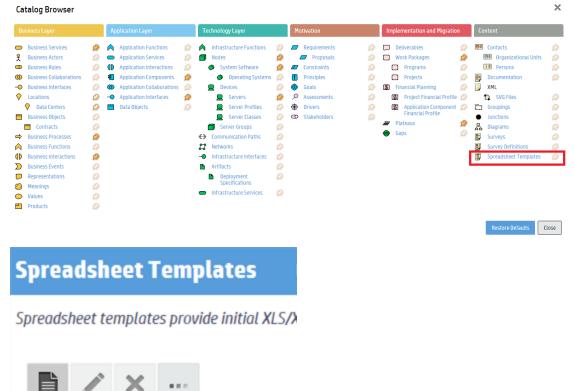
For more details, see "CSV Import Tool" in the Administration Guide.

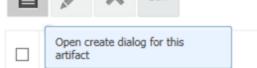
### Managing Template

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.





2. Enter the name of the template and select the artifact types this template applies to in Applicable

Cancel

### to Artifacts section and click Save.

Spreadsheet Templa	ate
Name: *	Business Function CSV Template
Description:	B I U A. I E E ∉ ∉ ≣ ≣ Ĵ Font Size I B Source
Version:	1.0
Applicable to Artifacts:	Artifact 🗙 Business Layer 🗙 🕂 Add
Documentation	
🗘 🔗 🖺	

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		
	4	🕅 Warning: This artifact has no data content attached Click here to upload a file.	
Documentation	\$	X Ø A	
Tree View	Attach Data Conte		×
Lifecycle	Source:	●File ○URL	Browse
Discussion	Location after Upload:	/defaultDomain/xpdl/support http://hpswvm234247.hpswlabs.adapps.hp.com:8080/em/platform/rest/location/defaultDomain/xpdl/sup Upload	Select opport 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 113.
- To create Excel/CSV template manually (for example: using Microsoft Excel), refer to "CSV Import Tool" in *Developer 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
DiateauArtifact.csv	14/07/2015 20:17	Microsoft Excel Co	1 KB

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

Spreadsheet Templates 🛛 🗛	Q	Filter -		
Spreadsheet templates provide initial XLS/XLSX/CSV files that can be used to import data.	. Data can be impo	orted from external data sources.		
■ × ···				
Name 🗸	Version	Applicable to Artifact	Domain	Rating
Section Component CSV Template      CSV template for importing Application Components.	1.0	Application Component	Top-level Domain	*****
Applications - Contacts Template 47 XLSX template with applications and their business, financial and technical contacts.	1.0	Application Component	Default Domain	******
🔲 🖄 Business Function CSV Template 🛷	1.0	Artifact,Business Layer	Default Domain	*****
□ ☆ Contacts Template	1.0	Person	Default Domain	*****
Data Centers Template      XLSX template with several data centers to either with offered server profiles. server classes and operating systems.	1.0	Data Center, Operating System, Server Class, Serve.	. 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 the data in XLS/XLSX spreadsheet files and import them into HP EM. You can also export/generate data from other systems and import them into EM in CSV format.	
Bownload Template to Get Started	
Upload Data Select File(s)	Settings
Select an artifact type. The Upload Data is automatically changed to Upload Data about	to

2. 8 inform the selected artifact type for downloading template or uploading data.

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

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 the data in CSV/XLS/XLSX spreadsheet files and import them into HP EM later on. You can also export data from other systems and import them into EM in CSV format.

📥 Download Template to Get Started

Please select an artifact type you want to download the template for, or download the template for Application Component and modify it to suit your needs.

Upload Data about Application Collaboration(s)

You can override the default behavior of the import so that you can overcome problems with different input formats and redefine behavior of overwriting data that already exist in HP EM.

Show more information

Artifact Type:

Application Collaboration

# Chapter 10: Extension for Sparx Systems EA

HP 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 HP EM. The HP EM user is able to synchronize data models bi-directionally using the extension.

## Installing Extension for Sparx Systems EA

You can install the HP EM Extension for Sparx Systems EA to extend your local installation of Sparx Systems EA to synchronize models with the HP 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 HP EM Extension for Sparx Systems EA:

- 1. Close Sparx Systems EA if it is running.
- 2. Run the installer hp-em-sparx-3.00.msi.
- 3. Click Next until the final wizard panel appears, and then click Finish.

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

### Supported Archimate® version

HP 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 the Add-In for Extension for Sparx Systems EA

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

### To uninstall the HP EM Add-In:

- 1. Close Extension for Sparx Systems EA 12 if it is running.
- 2. Open the Control Panel > Programs > Programs and Features.

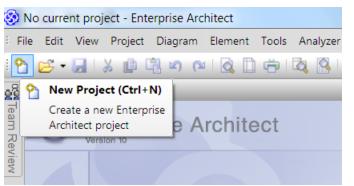
3. Select the program from the list, and then click Uninstall.

Control Panel Home	Uninstall or change a program					
View installed updates	To uninstall a program, select it from the list and then clic	:k 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	
network	and the largest function	Resoluti Pastanti Development Company	30/09/2013		1.5.6.365	
	with other happent	moving August Company	20/07/2013	14.4 MB	4.5.12.1	
	Contract website construction	Designed?	20/07/2013	5.65 MB	3.3.8.12	
	# HOT HAR	Reading Realized	04/10/2012	4.16 MB	2.0	
	#WYOLVE Minesel/Wonkers7	Reside Pastani Company	20/07/2013	15.3 MB	2.0.6.1	
	HP EM Extension for Sparx EA	Hewlett-Packard	18/05/2015	1.81 MB	2.00	
	2014 Classi Automation Application Mesoper Type:	Resident Produced Company	15/04/2014	33.0 MB	9.00.0000	
	Contracting Depose (181)		18/03/2015	2.39 MB	12.0.527	
	and the providence of	waveful focus di competer	20/07/2013	9.06 MB	5.0.9.0	
	Conceptor 1.1.0.01	EnergyArt	22/12/2014	2.59 MB	1.1.9.13	
	Construction Construction	Security line	29/07/2013		42.0.2311.152	

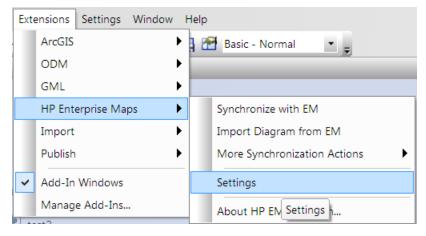
## Connecting Sparx Systems EA to EM

Once the installation for HP 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.



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



The HP Enterprise Maps Settings window appears as below.

D HP EM Extension Project Settings	
Repository used for Import/Export:           Name:	Repositories
Purpose of this project Ocument Base-line architecture	No repository defined
Document particular plateau of a target architecture	Select
Ocument deliverables of a project	Select
Options          Image: Options <t< th=""><th></th></t<>	
	OK Cancel

3. Click the Repositories button to define a repository.

The Create new Repository window appears as below.

Oreate new Rep Oreate new Rep	pository					
Server Information						
Enter HP EM Bas	Enter HP EM Base URL, username and password.					
If you are using HP EM virtual appliance, use the URL http://127.0.0.1/em. The default admin password is 'changeit'						
HP EM Base URL	http://HOST:PORT/em					
Username	admin					
Password						
Back	Next Finish Cancel					

4. Enter HP 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**.

O Create new Repository	
Select Repository Select a Repository from HP EM Server	
Name	Domain
Default Sparx EA Synchronization	Default Domain
Demo Domain Sparx EA Synchronization Global Sparx EA Synchronization	Demo Example Do Top-level Domain
Back Next Fi	nish Cancel

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

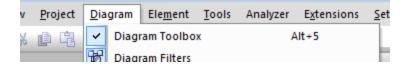
HP EM Settings						
Repositories Settings (	Colors Settings					
Default Sparx EA Synch	nronization at "http://demoserver:8080/em" in "Default Domain" domain 🔹 Edit Delete					
Properties						
Name *	Default Sparx EA Synchronization at "http://demoserver:8080/em" in "Default Domain" domain					
Base URL *	http://demoserver.8080/em					
HP EM Name/UUID *	Default Sparx EA Synchronization					
User	admin					
Password	••••••					
Local Directory	C:\Users\phantin\AppData\Roaming\HP EM Extension for Sparx EA\repositories\demoserver-8080-em-7eb68058-c5a(					
	Set Repository as Default					
Save Changes	Cancel Add Close					

Click **Close** to exit Settings window.

## Basic Modeling with Sparx Systems EA

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

1. Display Toolbox by clicking **Diagram > Diagram Toolbox** in the Main menu.

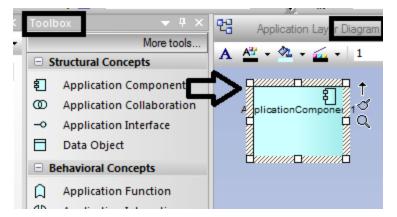


v	<u>P</u> roject	<u>D</u> ia	gram	Ele <u>m</u> ent	<u>T</u> ools	Analyzer	E <u>x</u> tensions	<u>S</u> et
X		~	Diag	ram Toolbo	x	A	lt+5	
				ram Filters				

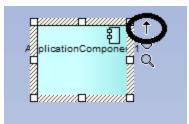
2. Display elements of an Archimate 2.0 layer by clicking More tools, and then select the layer for your model.

Toolbox	↓ ₽ More tools.	Composite Communication			
		ArchiMate			
		ArchiMate2		Business	
		BPMN 1.0		Application	
		BPMN 1.1		Technology	
		BPMN 2.0		Motivation	
		Data Flow Diagrams		Implementation	
		Metamodel	a <u>P</u> ro	ject File	🕙 Fin

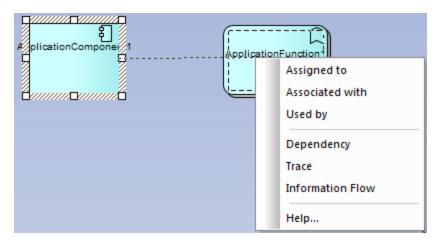
3. You can create new elements by dragging them from the Toolbox to a working diagram.



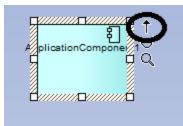
4. In a working diagram, you can create a link between elements by dragging the arrow (quick linker) from a selected element to another element.



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.

	Business Function	•	Assigned to
<u>ا</u>	Business Interaction	•	Associated with
A plicationCompone 1	Business Event	•	Used by
	Business Service	•	
8	Business Object	•	
	Representation	•	

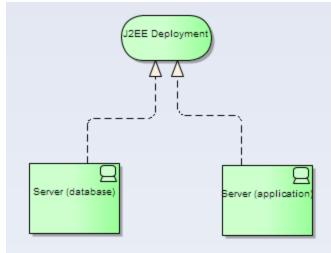
8. Sparx Systems EA opens a dialog that allows you to specify element properties. After you click **OK**, the element is created along with the link.

## 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.



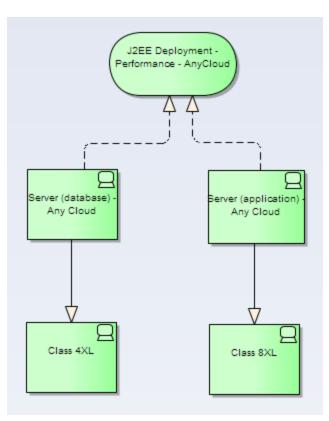
2. In **Tagged Values** window of Device, select **server** in the Specialization field for all Devices. This synchronizes the Devices as Servers into Enterprise Maps.

Tagged Values	▼ ¶ ×
🏙 21 🔗 💌 🗙 💊 🞼 🎯	
A Device (Server (application))	
er spalaes in the	
a second data a	
and the second sec	
a sector sector	
and the local data and the second	
em:Specialization:Device server	
endings in 1	
and a second	

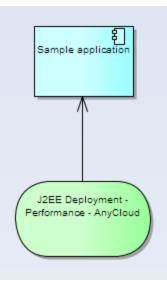
3. Additionally, define preferred Server Class(es) for each Server in the reference model using *Specializes* relationship.

### Note:

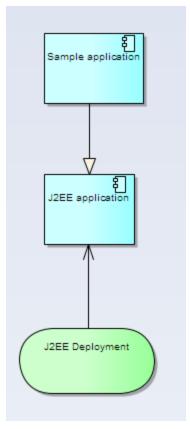
- You can also define Server Class required by the application later in its overview page in Enterprise Maps.
- Server Classes already available in EM can be imported from Enterprise Maps.



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.

<b>V</b>	Name	Stereotype	Artifact Uuid		
V	16.x.x.1 (database)	ArchiMate_Device	c05de526-a451-4883-8c68-d1203c899d.		
V	16.x.x.2 (application)	ArchiMate_Device	68f5f97c-18f9-4270-84d5-14380b05f7fc		
1	J2EE - Economy - HP Cloud	ArchiMate_InfrastructureServ	e51bb277-adfc-4d66-8602-5e5ad19cfd6b		
V	J2EE application	ArchiMate_ApplicationComp	cfa33448-6b74-4cc1-8823-4fd39f093ebd		
V	J2EE Deployment	ArchiMate_InfrastructureServ	f980bea7-ac77-49be-ada7-849fc1c134a3		
1	J2EE Deployment - Economy - AnyCloud	ArchiMate_InfrastructureServ	1adfd1a8-99ea-4c49-ac4f-1ad5b58c0ef9		
1	J2EE Deployment - Performance - AnyCloud	ArchiMate_InfrastructureServ	4db985a5-08d5-48dc-984f-fbe5d0f151f9		
V	J2EE Deployment - Testing	ArchiMate_InfrastructureServ	8c6c46dd-abe4-4198-96e4-155ac7e05b		
1	J2EE Deployment - Testing - AnyCloud	ArchiMate_InfrastructureServ	bcb12fa6-a061-40f5-b1ee-899998dce989		
1	Sample application	ArchiMate_ApplicationComp	08b24fdd-f49f-4271-aaef-37d172468a03		
V	Server (application)	ArchiMate_Device	04c4f03b-885b-4347-bc53-746cdb741814		
1	Server (application) - Any Cloud	ArchiMate_Device	5ba8968b-fab5-497a-b1a6-e690ff6e8187		
V	Server (database)	ArchiMate_Device	a5131c92-7815-4171-a7af-5081a591965c		
V	Server (database) - Any Cloud	ArchiMate_Device	e4acf202-779f-4a4f-8a83-e7e5dac8ea10		
V	Testing Server (DB + App)	ArchiMate_Device	425bc0a2-0d6a-4048-a73b-b5324c95cc		
1	Testing Server (DB + App) - Any Cloud	ArchiMate_Device	9d2bdf4a-8d7f-4d2e-ac38-7a83d4774e2d		

The following options are available for the user:

- Remove Selected: remove artifacts from Sparx EA project as well.
- Keep All: keep artifacts in Sparx EA project and restore them in EM too.

**Note:** Sparx EA project must be connected either to the same repository/domain as it was last synchronized with, or to a Global Sparx Repository. If connected to a new repository/domain, all artifacts in the Sparx EA project are considered as deleted artifacts.

## Element/Diagram Locking

HP 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 HP 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.

💿 HP EM	Extension Project Settings			- <b>O X</b>
Repositor	y used for Import/Export:			
Name:	Default Sparx EA Synchronization at "http://hpswvi	m235190:8080/em" in "Default D	omain" domain 🛛 🔻	Repositories
Purpose	of this project			
Occur	ment Base-line architecture			
O Docur	Ocument particular plateau of a target architecture		Select	
O Docur	ment deliverables of a project			Select
Options				
🔽 Warn a	about use of ArchiMate 1.0			
🔽 Enable	e element/diagram locking			
			ОК	Cancel

### 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.

Amazon AWS					×
Properties General Details	Na <u>m</u> e:	Amazon AWS	_		
Templates	Stereotype:	ArchiMate_Location -		Stat <u>u</u> s:	
- Advanced	Alias:		]	Complexity:	Easy 🔻
Tagged Values	Key <u>w</u> ords:		]	Versio <u>n</u> :	1.0
Requirements	Author:	nvcuong 🗸 🗸		Phas <u>e</u> :	1.0
Constraints	Language:	Java 🔻			
Scenarios	Notes:		,		
⊡. Files Links	Notes: <b>B</b> $I \sqcup {}^{a}A \models {}^{b} = {}^{b} \times {}^{2} \times {}^{2} \bigotimes {}^{b} = {}^{b}$ Amazon Web Services (AWS) is a collection 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 geographical regions across the world. The most central and well-known of these services are Amazon Elastic Compute Cloud and Amazon S3. These products are marketed as a service to provide large computing capacity more quickly and cheaper than a client company building an actual physical server farm.				
		ОК	Canc	el A	pply 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.

Diagram is locked
Warning - This diagram is locked
This diagram is already being edited by the following user: Administrator
If you proceed the changes made by you or by the other user might be lost
Edit Anyway OK

- 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.