Oracle Web Service Manager Implementation Guide Oracle Banking ELCM Release 14.4.0.0.0 [Apr] [2020]



Table of Contents

1.	INT	FRODUCTION	1-1
2.	PRI	EREQUISITES	2-1
3.	INS	STALLATION	3-1
4.	AT	TACHING POLICIES TO THE WEB SERVICE	4-1
5.	TES	STING WEB SERVICE WITH POLICIES	5-1
5	5.1	TESTING WEB SERVICE THROUGH ENTERPRISE MANAGER	5-1
5	5.2	TESTING OF WEB SERVICE VIA SOAP UI (EVIWARE SOAPUI3.0.1)	5-6



1. Introduction

The Oracle Web Services Manager (WSM) Policy Manager is the security and management policy lynchpin for Oracle Fusion Middleware 11*g* Web services. It provides a policy framework to manage and secure Web services consistently across your organization. Oracle WSM can be used by both developers, at design time, and system administrators in production environments. The policy framework is built using the WS-Policy standard

The following list provides examples of specific tasks that you can perform using Oracle WSM:

- Handle WS-Security (for example, encryption, decryption, signing, signature validation, and so on)
- Define authentication and authorization policies against an LDAP directory.
- Generate standard security tokens (such as SAML tokens) to propagate identities across multiple Web services used in a single transaction.
- Segment policies into different namespaces by creating policies within different folders.
- Examine log files.



2. Prerequisites

This document assumes that the following software are installed and configured properly.

- Oracle SOA Suite 11g
- Oracle Weblogic Server 11g
- Oracle Web Service Manager 11g which comes along with Oracle SOA suite 11g
- eviware soapUI3.0.1 (For testing the web service with policy)

Gateway EJB and Gateway Web Services has to be deployed on weblogic server before attaching policies.

For gateway EJB and gateway Web services deployment please refer to Gateway Installation guide.



3. Installation

For the installation of Oracle SOA 11g and Oracle Weblogic 11g please refer to Installation Guide for Oracle SOA Suite and Getting Started With Installation for Oracle Weblogic Server respectively.



4. Attaching policies to the Web Service

The following policy which have been tested with FLEXCUBE services :

- policy:oracle/wss_username_token_service_policy
- Please follow the procedure mentioned to attach a policy to the web service.

Navigate to the Summary of Deployments page.

	ministra	ition Console								
Change Center	Home	e Log Out Preferences 🔤 Record Help	Q	We	elcome, weblogic	Connected to: soa_domain				
View changes and restarts	Home > Deployn	Summary of JDBC Data Sources >Summary of Deployments >GW_EJB_Bee nents >FCUBSCcyService >Summary of Deployments >FCUBSCcyService	an >Summ > Summar	ary of Depk y of Deplo	oyments >build >Sumr yments	mary of				
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Domain Structure	Contro	Plotitioning								
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Data Sources										
Data Source Factories	Deployments									
Persistent Stores Foreign JNDI Providers Work Contexts	Install Update Delete Start Stop Showing 1 to 10 of 26 Previous Next									
XML Registries		Name 🗞	State	Health	Туре	Deployment Order				
How do I		🗑 AqAdapter	Active	🖋 ок	Resource Adapter	324				
Install an Enterprise application Configure an Enterprise application		🗈 📑 b2bui	Active	🖋 ок	Enterprise Application	313				
Update (redeploy) an Enterprise application			Active	🖋 ОК	Resource Adapter	322				
 Start and stop a deployed Enterprise application 			Active	🖋 ок	Enterprise Application	314				
Monitor the modules of an Enterprise application			Active	🖋 ок	Web Application	190				

1. Expand the web service application and click on Web Services link.



Update (redeploy) an Enterprise application		₩ DbAdapter	Active	🖋 ок	Resource Adapter	322
 Start and stop a deployed Enterprise application 		DefaultToDoTaskFlow	Active	🖋 ок	Enterprise Application	314
 Monitor the modules of an Enterprise application 			Active	🖋 ок	Web Application	190
Deploy EJB modules Install a Web application		⊕ Coem	Active	🖋 ок	Enterprise Application	400
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OK (2)		⊡ Web Services				
		@FCUBSCcyService			Web Service	
		🗑 FileAdapter	Active	🖋 ОК	Resource Adapter	321
		E FMW Welcome Page Application (11.1.0.0.0)	Active	🖋 ОК	Enterprise Application	150
			Active	🖋 ОК	Resource Adapter	325
	Insta	Update Delete Start V Stop V			Showing 1 to 10	of 26 Previous Next

2. Navigate to the Configuration tab.

ORACLE WebLogic Server® Administration Console													
Change Center	Home Log Out F	references 🔤 Re	cord Help		٩	Welcome, weblogic	Connected to: soa_domain						
View changes and restarts						ary of Deployments >FCUBSCcy	/Service >Summary of						
changes will automatically be activated as you	Settings for FCUBS	Settings for FCUBSCcyService											
	Overview Config	uration Security	Testing	Monitoring		is to specify the shape and behavior of the Web ame that appears in the Deployments table of the ame that appears in the WSDL that describes the Web The name of the Web Service as it appears in the Deployments table. More Info The name of the Web Service archive file, either a WAR							
modify, add or delete items in this domain. Domain Structure soa_domain B ¹ -Environment Topployments B ² -Services B ² -Messaging B ² -Messaging B ² -DBC Data Sources Multi Data Sources													
Environment Deployments Services H-Messaging D-JDBC Data Sources	Java Web Service (JWS) file, which is a Java class that uses JWS metadata annotations to specify the shape and behavior of the Web Service. This page displays the general configuration of a deployed Web Service, such as the name that appears in the Deployments table of the Administration Console, the name of the WAR or JAR file in which it is packaged, and name that appears in the WSDL that describes the Web												
Data Source Factories	Deployment Nam	:	FCUBSC	CyService		The name of the Web Service as it appears in the Deployments table. More Info							
				n the Web Service									
How do L Start and stop a Web Service View the Web Service configuration View the WSDL of a Web Service	Service Name:		FCUBSC	CyService	V	The name of this Web Service. This name appears in the WSDL file that defines the public contract of this Web Service. More Info							

3. Click 'WS-Policy'.



Configuration editing is enabled. Future changes will automatically be activated as you	Settings for FCUBSCovService											
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	Overview Configuration Se	curity Testing Monitoring										
Domain Structure	General Handlers WSD	WS-Policy Port Components										
soa_domain												
⊕-Environment	Save											
Deployments												
⊡-Services												
⊕-Messaging	in this domain. In this domain. Overview Configuration Security Testing Monitoring Image: General Handlers WSDL WS-Policy Port Components Image: FCUBSC Service, such as the type of archive it is packaged in (WAR or EJB JAR), the file that contains the Web Service implementation, and so on. Name: FCUBSCcyService The name of the Web Service. More Info Name: FCUBSCcyService The name of the Web Service. More Info More Info Description: (No value specified) Specifies the description of the Web Service. More Info Web Service Type: JAX-WS 2.1 The Web Service Type (JAX-WS / JAX-RPC). More Info Implementation Type: WAR Implementation Source: FCUBSCcyService.war Service WSDL Publish File: Flag that specifies whether to publish the WSDL of the deployed Web Services always publish the WSDL. Walk IAX-WS Web Services always publish the WSDL. Value Service for JAX-RPC Web Services. Note that JAX-WS Web Services always publish the WSDL.											
Data Sources												
Multi Data Sources												
Data Source Factories	Name:	FCUBSCcyService	The name of the Web Service. More Info									
Persistent Stores												
Foreign JNDI Providers	Description:	(No value specified)										
Work Contexts			Info									
XML Registries												
- XML Entity Caches	web Service Type:	JAX-WS 2.1										
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 Start and stop a Web Service 	Implementation Type:	WAR										
 View installed Web Services 	Implementation Source:	FCUBSCcyService.war										
 View the WSDL of a Web Service 												
 Monitor a Web Service 	🚯 WSDL Publish File:											
 Install a Web Service 			that JAX-WS Web Services always publish the WSDL.									
	1											
System Status	1		server returns the WSDL upon request using the URL format: service_address?WSDL. If false, then the server									
Health of Running Servers			returns a 404 code because the WSDL is not available. The WSDL file is defined by the <wsdl-file> element in</wsdl-file>									
			the webservices.xml descriptor. More Info									

4. Select web service end point of the web service.

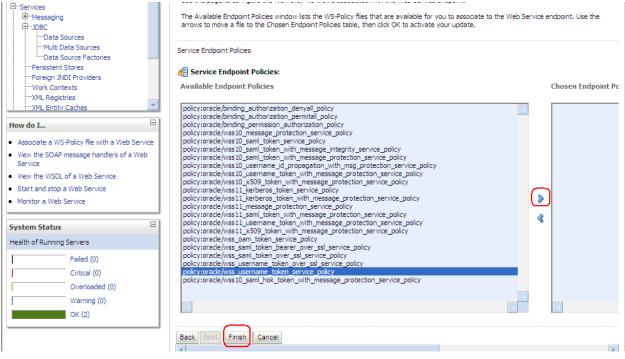
View changes and restarts Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain. Domain Structure												
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Domain Structure	General	Handlers	WSDL	WS-Polic	/ Port	Components)					
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									Showing	1 to 1 of 1 Previous Next		
Deployments Deployments This page lists the policy files that are associated with the endpoints and operations of this WebService. The operations are listed below the endpoint - click on the + sign to view them. Click on the endpoint or operation name to configure an associated policy file. For example, you can specify that the policy file applies only for inbound (request) SOAP messages, and so on . Data Sources Data Sources Data Sources Data Sources Determines Showing 1 to 1 of 1 Previous Next Service Endpoints and Operations & Policies												
Work Contexts XML Registries XML Entity Caches	. FCUE	SCcyService	SEI						Chawing	1 to 1 of 1 Previous Next		
How do I									Showing	TO TO T PREVIOUS Next		

5. Select OWSM web service policy and navigate to the next page by clicking on 'Next'.



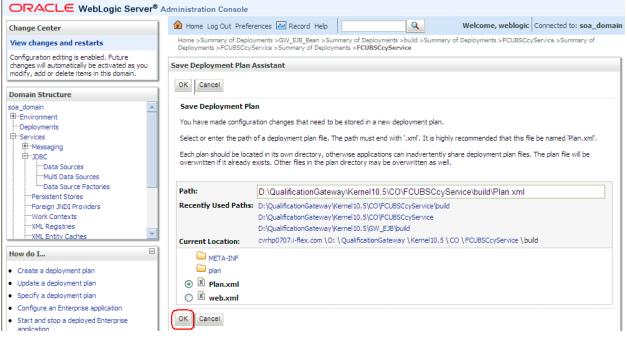


6. Select policy:oracle/wss_username_token_service_policy and click on finish.

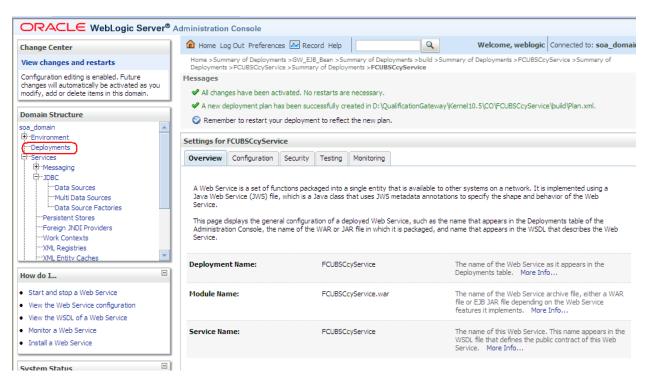


7. Update the plan.xml.





8. Click on Deployment to restart the application to reflect the plan.



9. Stopping the application.





This page displays a list of Java EE applications and stand-alone application modules that have been installed to this domain. Installed applications and modules can be started, stopped, updated (redeployed), or deleted from the domain by first selecting the application name and using the controls on this page.

To install a new application or module for deployment to targets in this domain, click the Install button.

Customize this table

Deployments

Insta	II Update Delete Start ~	Stop 🛩			Showing 1 to 10	of 26 Previous Next
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	DbAdapter		Active	🖋 ок	Resource Adapter	322
			Active	🖋 ок	Enterprise Application	314
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	⊡ [Bem		Active	🖋 ОК	Enterprise Application	400
	■ FCUBSCcyService		Active	🖋 ОК	Enterprise Application	100
			Active	🖋 ок	Resource Adapter	321

10. Starting the application.

soa_domain	Contro	Monitoring								
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Update (redeploy) an Enterprise application Start and stop a deployed Enterprise		🗈 🕞 b2bui				Enterprise Application	313			
application Monitor the modules of an Enterprise				Active	🖋 ОК	Resource Adapter	322			
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Install a Web application		🗄 🦲 DMS Application	n (11. 1. 1. 1.0)	Active	🖋 ок	Web Application	190			
iystem Status		⊞ 📑 em		Active	🖋 ок	Enterprise Application	400			
Health of Running Servers			ice	Prepared	🖋 ок	Enterprise Application	100			
Failed (0) Critical (0)		👼 File Adapter	_	Active	🖋 ок	Resource Adapter	321			

11. After starting the application make sure that it is active.



Domain Structure	Summa	ry of Deployments								
soa_domain	Contro	Monitoring								
	applic and u To ins Cust	This page displays a list of Java EE applications and stand-alone application modules that have been installed to this domain. Installed applications and modules can be started, stopped, updated (redeployed), or deleted from the domain by first selecting the application name and using the controls on this page. To install a new application or module for deployment to targets in this domain, click the Install button.								
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How do I 🗉		Name 🐟	State	Health	Туре	Deployment Order				
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application Monitor the modules of an Enterprise		₩ DbAdapter	Active	🖋 ок	Resource Adapter	322				
application Deploy EJB modules			Active	🖋 ок	Enterprise Application	314				
Install a Web application		OMS Application (11.1.1.1.0)	Active	🖋 ок	Web Application	190				
System Status 🗉		🕀 🔂 em	Active	🖋 ок	Enterprise Application	400				
Health of Running Servers			Active	✓ ок	Enterprise	100				

12. Expand the application and click on the web service to verify the policies attached with it.

 Configure an Enterprise application 							
Update (redeploy) an Enterprise application		🗑 DbAdapter	Active	🖋 ок	Resource Adapter	322	
 Start and stop a deployed Enterprise application 			Active	🖋 ок	Enterprise Application	314	
 Monitor the modules of an Enterprise application 		DMS Application (11.1.1.1.0)	Active	🖋 ок	Web Application	190	
Deploy EJB modules Install a Web application		æ ⊑∎em	Active	🖋 ок	Enterprise Application	400	
System Status			Active	🖋 ок	Enterprise Application	100	
Health of Running Servers		🗆 Modules					
Failed (0)		FCUBSCcyService			Web Application		
Critical (0)		🗆 EJBs					
Overloaded (0) Warning (0)		None to display					
OK (2)		⊡ Web Services					
		(@)FCUBSCcyService			Web Service		
		🖗 FileAdapter	Active	🖋 ОК	Resource Adapter	321	
		€ The FMW Welcome Page Application (11.1.0.0.0)	Active	🖋 ОК	Enterprise Application	150	
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	Insta	all Update Delete Start V Stop V Showing 1 to 10 of 26 Previous Next					
WebLogic Server Version: 10.3.1.0							

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ORACLE WebLogic Server®	Administration Console							
Change Center	🙆 Home Log Out Prefe	ences 🔁 Re	cord Help		٩	Welcome, weblogic	Connected to: soa_domain	
View changes and restarts	Home >Summary of Deplo Deployments >FCUBSCcy					>Summary of Deployments >FCUB	SCcyService >Summary of	
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Domain Structure	Overview Configuration Security Testing Monitoring A Web Service is a set of functions packaged into a single entity that is available to other system							
soa_domain Deployments Deployments D-Services D-JDBC →Data Sources →Multi Data Sources →Data Source Factories →Persistent Stores →Foreign JNDI Providers →	Java Web Service (JWS Service. This page displays the g Administration Console, Service. Deployment Name:) file, which is a eneral configura	Java class f ation of a de e WAR or JA FCUBSC	that uses JWS ployed Web S R file in which cyService	metadata annotat ervice, such as the	ions to specify the shape and beh e name that appears in the Deploy d name that appears in the WSDL The name of the Web Service Deployments table. More Inf	avior of the Web yments table of the that describes the Web as it appears in the o	
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How do I	Service Name:		FCUBSC	cyService		The name of this Web Service WSDL file that defines the pub		
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Configure an Enterprise application							
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application			Active	🖋 ок	Enterprise Application	314	
Monitor the modules of an Enterprise application		OMS Application (11.1.1.1.0)	Active	🖋 ок	Web Application	190	
Deploy EJB modules Install a Web application		æ []em	Active	🖋 ок	Enterprise Application	400	
System Status			Active	🖋 ок	Enterprise Application	100	
Health of Running Servers		🖂 Modules					
Failed (0)		FCUBSCcyService			Web Application		
Critical (0)		🗆 EJBs					
Overloaded (0) Warning (0)		None to display					
OK (2)		⊡ Web Services					
		(FCUBSCcyService			Web Service		
			Active	🖋 ок	Resource Adapter	321	
			Active	🖋 ОК	Enterprise Application	150	
			Active	🖋 ок	Resource Adapter	325	
	Install Update Delete Start V Stop V Showing 1 to 10						
WebLogic Server Version: 10.3.1.0 Copyright © 1996,2009, Oracle and/or its affiliates. All right							

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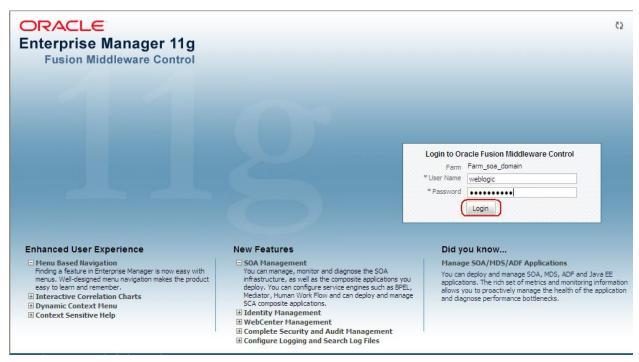
	Administratio	on Consol	le						
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View changes and restarts		Home >Summary of Deployments >build >Summary of Deployments >FCUBSCcyService >Summary of Deployments >FCUBSCcyService >Summary of Deployments >FCUBSCcyService >Summary of Deployments >FCUBSCcyService							
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	be activated as you Settings for FCUBSCcyService						- -		
	Overview	Configu	ration	Security 1	esting	Monitoring			
Domain Structure	General	Handlers	WSDL	WS-Policy	Por	rt Components			
soa_domain	Centerda	r landier 5		TO FORE	1.0	e componento			
P⊡Deployments D=Services B=Messaging D=JDBC I=Data Sources	endpoint can speci	- click on th fy that the	e + sign policy file	to view them.	Click or or inbo	n the endpoint o und (request) S		this WebService. The operatio configure an associated policy so on .	
Multi Data Sources								Showing 1 t	o 1 of 1 Previous Next
Persistent Stores Foreign JNDI Providers	Service Endpoints and Operations 🗞 Policies								
Work Contexts	FCUBSCcyServiceSEI policy:oracle/wss_username_token_service_policy								
XML Registries								Showing 1 t	o 1 of 1 Previous Next
How do I									



5. Testing Web Service with Policies

5.1 Testing Web Service through Enterprise Manager

1. Once attaching the policies is finished, login to the enterprise manager (http://hostname:port/em)



2. Expand the Weblogic Domain and Select the domain (created during SOA installation).



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	L	Name	Status	Target	Name	Status	Host	
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3. Select Test Web Service link from the fusion middleware control.

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	16		racle WebLogi	c Domai	n Resource Co	enter						worklistapp	car i		2
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4. Enter the WSDL URL of the web service for which policy is applied and click on Parse WSDL.



ORACLE Enterprise Manager 11g Fusion Middleware Control	Setup 🔻 Help 👻 Log Out
Pi Farm ▼ & Topology	
Image: Soa_domain () Image: Barm_soa_domain Image: Barm_soa_domain Image: Barm_soa_domain Page Refreshed Ox	Logged in as weblogic ct 26, 2009 8:06:46 PM GMT+05:30 🗘
Image: Application Deployments Image: Application Deployments Image: Applicati	Test Web Service WSDL. When the page

5. Select the operation for which you want to test the web service.

	Manager 11g Fusion Middleware Control Setup - Help - Lo	og Out
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Image: Solution of the second seco	soa_domain ③ Logged in as well WebLogic Domain ▼ Page Refreshed Oct 26, 2009 8:20:07 PM GMT+0 Test Web Service ③ Use this page to test any WSDL, including WSDLs that are not in the farm. To test a Web service, enter the WSDL and click Parse WSDL. When the page refreshes with the WSDL details, first select the Service, then select the Port, and then select the Operation that you want to test. Specify any input parameters, and click Test Web Service.	-
	WSDL http://cvrhp0707.i-flex.com:8001/FCUBSCcyService/FCUBSCcyService?WSDL Parse WSDL HTTP Basic Auth Option for WSDL Access Service FCUBSCcyService Port FCUBSCcyService Port FCUBSCcyServiceSEI Operation OuervCcyDefn Image: Comparison of the comparison of th	
	Quality of Service WS-RM ③ WSDL Default ③ None ③ Custom Policy URI WS-Addressing ④ WSDL Default ③ None ③ Custom Policy URI	

6. Select WSS Username Token and enter the Weblogic credentials.



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	soa_domain ● WebLogic Domain ● Test Web Service Use this page to test any WSDL, including WSDLs that are not in the farm. To test a Web service, enter the WSD refreshes with the WSDL details, first select the Service, then select the Port, and then select the Operation that parameters, and click rest Web Service. WSDL Mtp://cvrhp0707.i-fex.com:8001/FCUBSCcyService/FCUBSCcyService?WSDL HTTP Basic Auth Option for WSDL Access Service Port FCUBSCcyServiceSEI Operation QueryCcyDefn	t you want to test. Specify any input
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7. Enter the Request Message and Click on Test Web Service button.

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	* RequestMsg	string	<pre><fcubs_req_env><fcubs_h< pre=""></fcubs_h<></fcubs_req_env></pre>
	Request Response		Test Web Service

8. The Test Status Passed indicates the web service is properly authenticated by the policy.

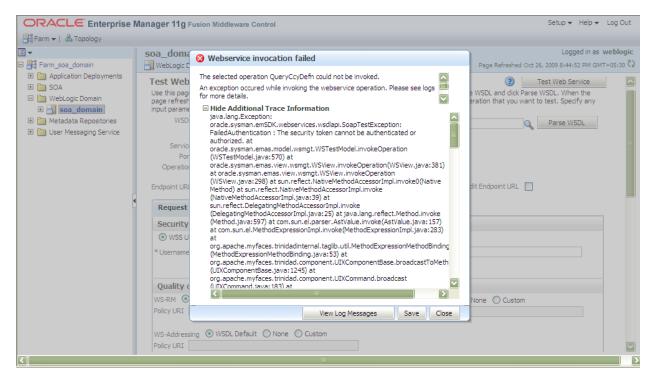


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	Response Hine (III) Ore	Type string	Value xml version="1.0"? <fcubs_res_env xmlns="http://fcubs.iflex.com/service/FCUBSC <fcubs_header> <source/>FLEXCUBE<td></td><td>_</td></fcubs_header></fcubs_res_env 		_

9. Wrong credential will result to an error during Testing of web service.

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 Application Deployments SOA WebLogic Domain Soa domain Metadata Repositories User Messaging Service 	Test Web Service Operation Use this page to test any WSDL, including WSDLs that are not in the farm. To test a Web service, enter the WSDL and dick Parse WSDL. When the page refershes with the WSDL details, first select the Service, then select the Port, and then select the Operation that you want to test. Specify any input parameters, and click Test Web Service. WSDL [http://cvrhp0707.1-flex.com:8001/FCUBSCcyService/FCUBSCcyService?WSDL Q Parse WSDL HTTP Basic Auth Option for WSDL Access Service FCUBSCcyService?WSDL Q Parse WSDL HTTP Basic Auth Option for WSDL Access Service FCUBSCcyService Edit Endpoint URL Parse WSDL Operation QueryCcyDefn Image: Colspan="2">Image: Colspan="2">Colspan="2" MSDL [http://cvrhp0707.1-flex.com:8001/FCUBSCcyService?FCUBSCcyService?FCUBSCcyService Edit Endpoint URL [Colspan="2">Colspan="2" Operation [QueryCcyDefn Image: Colspan="2">Colspan="2" [Colspan="2">Colspan="2" Security Image: Colspan="2" [Colspan="2" [Colspan="2"	
	Quality of Service	
	WS-RM WSDL Default None Custom MTOM WSDL Default None Custom Policy URI	
	WS-Addressing WSDL Default None Custom Policy URI	~





5.2 Testing of Web Service via SOAP UI (eviware soapUI3.0.1)

The above Testing of web service can also be done via SOAP UI as follows:

Configure the Outgoing WS- Security Configurations by double clicking the project and navigating to the Security Configurations tab.



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Projects ProJBSCcyService PCUBSCcyServiceSElBinding CUBSCcyServiceSElBinding CUBSCcyService	Image: Security Configurations Image: Cubsc CcyService Overview TestSuites Security Configurations Image: Cubsc CcyService Image:	11 + 10
Project Properties Custom Properties Property Value Name FCUBSCcyService Description File Pt/soapul-3.0.1 V	resp	(0) (0) (1) (2) (4):28
Properties	soapUI log http log ietty log error log wsrm log memory log	

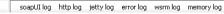
- 1. Create a new request for the operation, which you want to invoke.
- 2. Configure the Authentication and security related setting by going to Aut Section as shown to apply the WS-User Token into the request.



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The second seco	** Request 1 *= #* **	ccyService/FCUBSCcyService	
Request Properties Property Value Name Request 1 Description Image: Size 809 Secondaria UTE 8	Incoming WSS: Authenders (0) Attachments (0) WS-A WS-RM respond Authentication and Security-related settings	Headers (6) Attachments (0) SSL Info WSS (0)	1:1

3. Run the request by clicking the button as shown.

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	Request 1	of a	ц Х
	<pre>http://cvrhp0708.i-flex.com:8001/FCUBSCcyServic soapenv: Hnvelope xmlns: fcub="http://fcubs.iflex.com/" <soapenv:header></soapenv:header> <soapenv:body> <fcub: queryccydefn=""><!--/ICDATAI<FCUBS_REQ_ENV--><fcubs </fcubs </fcub:></soapenv:body></pre>	S: Envelope xmlns:S="http://schemas.xmlso <s: envelope="" fcubs.iflex.<="" http:="" td="" xmlns:s="http://schemas.xmlso</td> <S: Body> <QueryCcyDefnResponse xmlns="> </s:>	







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