# Oracle Web Service Manager Implementation Guide Oracle Banking Corporate Lending Release 14.7.3.0.0 [February] [2024]

FINANCIAL SERVICES

# **Table of Contents**

1.	INT	RODUCTION	1-1
2.	PRE	EREQUISITES	2-1
3.	INS	TALLATION	3-1
4.	AT	TACHING POLICIES TO THE WEB SERVICE	4-1
5.	TES	STING WEB SERVICE WITH POLICIES	5-1
5 5		TESTING WEB SERVICE THROUGH ENTERPRISE MANAGER TESTING OF WEB SERVICE VIA SOAP UI (EVIWARE SOAPUI3.0.1)	



# 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.

	A	e Log Out Preferences 🔤 Record Help	Q	Wala	ama wahlania	Connected to: soa domai			
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1. Expand the web service application and click on Web Services link.



Update (redeploy) an Enterprise application		₩ DbAdapter	Active	🖋 ОК	Resource Adapter	322
<ul> <li>Start and stop a deployed Enterprise application</li> </ul>			Active	🖋 ок	Enterprise Application	314
Monitor the modules of an Enterprise     application	DMS Application (11.1.1.1.0)			🖋 ок	Web Application	190
Deploy EJB modules     Install a Web application		t∎ ⊑jem	Active	🖋 ок	Enterprise Application	400
System Status			Active	🖋 ОК	Enterprise Application	100
Health of Running Servers		⊟ Modules				
Failed (0)		FCUBSCcyService			Web Application	
Critical (0)		E EJBs				
Overloaded (0) Warning (0)		None to display				
OK (2)		Web Services				
		@FCUBSCcyService			Web Service	
		🗑 FileAdapter	Active	🖋 ОК	Resource Adapter	321
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			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	n Console									
Change Center	Home La	g Out Preferen	ces 📐 Red	ord Help		Q	Welcome, weblogic	Connected to: soa_domain			
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	Overview	Configuration	Security	Testing	Monitoring						
Domain Structure											
	Service. This page o	displays the gene tion Console, the	eral configura	ation of a d e WAR or J	eployed Web Serv	vice, such as the na is packaged, and na	s to specify the shape and bel ame that appears in the Deplo ame that appears in the WSDL The name of the Web Service Deployments table. More Inf	yments table of the that describes the Web as it appears in the			
Work Contexts 	Module Na	Module Name:			cyService,war		The name of the Web Service archive file, either a WA file or EJB JAR file depending on the Web Service features it implements. More Info				
How do I • Start and stop a Web Service • View the Web Service configuration	Service Na		FCUBSCcyService			The name of this Web Service. This name appears in WSDL file that defines the public contract of this Wel Service. More Info					

3. Click 'WS-Policy'.



Configuration editing is enabled. Future changes will automatically be activated as yo modify, add or delete items in this domain.	u	Settings for	r FCUBSCo	yServic	e						
modiry, add or delete items in this domain.		Overview	Configur	ation	Security	Testing	g Monitoring				
Domain Structure		General	Handlers	WSDL	WS-Pol	cv Po	rt Components				
soa_domain	<u> </u>	10									
Deployments		Save									
⊖-Services ⊕-Messaging ⊖-JDBC ↓-Data Sources		Use this page to view the general configuration of this Web 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.									
Multi Data Sources Data Source Factories		Name:			F	CUBSCey	/Service	The name of the Web Service. More Info			
Foreign JNDI Providers Work Contexts		Descriptio	escription:		Q	No value	specified)	Specifies the description of the Web Service. More Info			
XML Registries XML Entity Caches	-	Web Service Type:			3	AX-WS 2	.1	The Web Service Type (JAX-WS / JAX-RPC). More Info			
How do I	Ξ										
<ul> <li>Start and stop a Web Service</li> </ul>		Implemen	itation Ty	pe:	V	/AR					
<ul> <li>View installed Web Services</li> <li>View the WSDL of a Web Service</li> </ul>		Implemen	ntation So	urce:	F	CUBSCcy	/Service.war				
<ul> <li>Monitor a Web Service</li> </ul>		🐻 WSDL	Publish Fil	e:	Ē			Flag that specifies whether to publish the WSDL of the			
Install a Web Service								deployed Web Service for JAX-RPC Web Services. Note that JAX-WS Web Services always publish the WSDL. Valid values include true or false. If set to true, then the			
System Status								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 the webservices.xml descriptor. More Info</wsdl-file>			

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

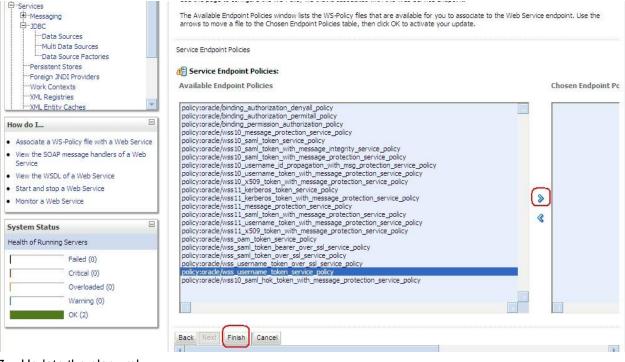
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B Environment ⊡Deployments G Services B Messaging G JDBC □DBC □Data Sources	This page endpoint can spec WS-Polic	e lists the po - click on th fy that the <b>cy Files As</b>	olicy files he + sign policy file sociated	that are ass to view ther applies only	ociated n n. Click o y for inbo	with the endpoints on the endpoint or bound (request) SC	operation name to	configure an associated polic so on , Showing 1			

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



Change Center	🙆 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic	Connected to: soa_domain
View changes and restarts	Home >Summary of Deployments >GW_EJB_Bean >Summary of D Deployments >FCUBSCcyService >Summary of Deployments >FC		nary of Deployments >FCUBSCc	Service >Summary of
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Configure a WebService policy			
Domain Structure	Back Next Finish Cancel			
soa_domain 🔺	Configure the Policy Type for a Web Service			
DeploymentsServices Messaging Data SourcesData SourcesData Source FactoriesPersistent StoresPortigin JNDI ProvidersWork ContextsWork Contexts	Use this page to configure which kind of policies (WebLogic or Note: Once you have added a policy to this Web Service, you policies from this Web Service's endpoints and operations first Which kind of Web Service policies should this Web Service use	will only be able to add p		you remove all of the

6. Select policy:oracle/wss\_username\_token\_service\_policy and click on finish.

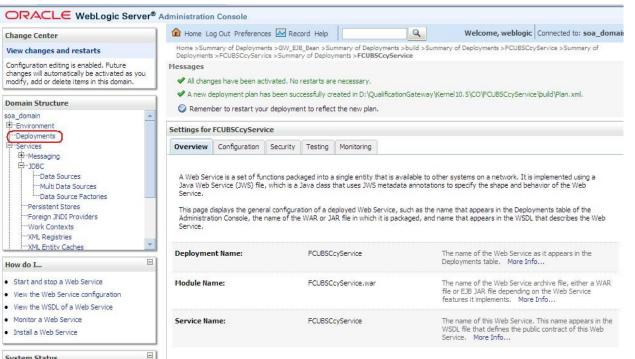


7. Update the plan.xml.



Change Center	Home Log Out Prefer	ences 🚵 Record Help	Q	Welcome, weblogic	Connected to: soa_domai				
View changes and restarts		yments >GW_EJB_Bean >Summary Service >Summary of Deployments >		ery of Deployments >FCUBSCcj	/Service >Summary of				
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Save Deployment Plan Assistant								
Domain Structure	OK Cancel								
soa_domain	Select or enter the path of Each plan should be locat	n ation changes that need to be sto of a deployment plan file. The pat ted in its own directory, otherwise exists. Other files in the plan direc	h must end with '.xml'. It is hig applications can inadvertent!	shly recommended that this fil y share deployment plan files.					
Data Source Factories	Path:	D:\QualificationGateway\K	ernel10.5\CO\FCUBSCcy	/Service\build\Plan.xml	1				
	Recently Used Paths:	D: \QualificationGateway\Kernel 10.5\CO\FCUBSCcyService\build D: \QualificationGateway\Kernel 10.5\CO\FCUBSCcyService D: \QualificationGateway\Kernel 10.5\GW_EJB\build							
	Current Location:	cvrhp0707.i-flex.com \D: \Qua	ificationGateway \Kernel10.5	\CO \FCUBSCcyService \bu	ild				
How do I     Image: Create a deployment plan       • Update a deployment plan       • Specify a deployment plan	META-INF plan () X Plan.xml () X web.xml								
Configure an Enterprise application     Start and stop a deployed Enterprise	OK Cancel								

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



System Status

9. Stopping the application.



soa_domain 	-	applica	tions and modules can be starte	lications and stand-alone application m d, stopped, updated (redeployed), or						
		and us	ing the controls on this page.							
□ Services		<b>T</b>			والمراجع المراجع					
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Ė-JDBC										
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Multi Data Sources										
Data Source Factories										
Persistent Stores		Deploy	yments							
Foreign JNDI Providers		Instal	I Update Delete Start∽	Stop 🛩			Showing 1 to 10	of 26 Previous   Next		
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How do I			🖗 AqAdapter	Stop, but continue servicing administr	ation req	uests (	Resource Adapter	324		
<ul> <li>Install an Enterprise application</li> </ul>						🖋 ок	Enterprise	313		
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• Update (redeploy) an Enterprise applicatio	n		DbAdapter		Active	🖋 ок	Resource Adapter	322		
<ul> <li>Start and stop a deployed Enterprise</li> </ul>										
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<ul> <li>Monitor the modules of an Enterprise</li> </ul>							Application			
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System Status				J	Active	🖋 ОК	Application	100		
Health of Running Servers			👼 File Adapter		Active	≪ок	Resource Adapter	321		
			-							

#### 10. Starting the application.

soa_domain	Contro	Monitoring								
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XML Registries	Insta				Showing 1 to 10 c	f 26 Previous   Next				
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Install an Enterprise application     Configure an Enterprise application			Active	🖋 ок	Resource Adapter	324				
<ul> <li>Update (redeploy) an Enterprise application</li> <li>Start and stop a deployed Enterprise</li> </ul>		⊕ []b2bui	Active	🖋 ок	Enterprise Application	313				
<ul> <li>application</li> <li>Monitor the modules of an Enterprise</li> </ul>		₩ DbAdapter	Active	🖋 ок	Resource Adapter	322				
<ul><li>application</li><li>Deploy EJB modules</li></ul>		DefaultToDoTaskFlow	Active	🖋 ОК	Enterprise Application	314				
Install a Web application			Active	🖋 ок	Web Application	190				
System Status		🖭 🕞 em	Active	🖋 ок	Enterprise Application	400				
Health of Running Servers Failed (0)			Prepared	🖋 ОК	Enterprise Application	100				
Critical (0)		₩ FileAdapter	Active	🖋 ОК	Resource Adapter	321				

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



Domain Structure	Sumn	ary of Deploym	ents						
soa_domain	Cont	rol Monitoring							
DeploymentsServicesServicesDeta SourcesMulti Data SourcesData SourcesData Source FactoriesPersistent StoresForeign JNDI ProvidersWork ContextsWill Registries	app and To i Dep	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.							
FXML Entity Caches		tall Update De	ete Start V Stop V			Showing 1 to 10	of 26 Previous   Ne		
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Install a Web application		] 🗄 🐻 DMS App	lication (11.1.1.1.0)	Active	🖋 ок	Web Application	190		
System Status		] 🕀 📑 em		Active	🖋 ок	Enterprise Application	400		
Health of Running Servers				Active	Ø OK	Enterprise	100		

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

<ul> <li>Configure an Enterprise application</li> </ul>	_	I				
Update (redeploy) an Enterprise application			Active	🖋 ок	Resource Adapter	322
<ul> <li>Start and stop a deployed Enterprise application</li> </ul>			Active	🖋 ок	Enterprise Application	314
<ul> <li>Monitor the modules of an Enterprise application</li> </ul>		Oms Application (11.1.1.1.0)	Active	🖋 ок	Web Application	190
Deploy EJB modules     Install a Web application		🗈 📑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)		None to display				
Warning (0) OK (2)		🖃 Web Services				
		( FCUBSCcyService			Web Service	
			Active	🖋 ок	Resource Adapter	321
			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	
WebLogic Server Version: 10.3.1.0						
Copyright © 1996,2009, Oracle and/or its affiliates. All right		ed. filiates. Other names may be trademarks of their respective owners.				



Change Center	Home L	og Out Preferend	es 🔤 Rei	ord Help		Q	Welcome, weblogic	Connected to: soa_doma		
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modily, and of delete items in this domain.	Overview	Configuration	Security	Testing	Monitoring					
Domain Structure			)							
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	Module Na	ame:		FCUBSC	cyService.war		The name of the Web Service file or EJB JAR file depending features it implements. More	on the Web Service		
How do I	Service N	ame:		FCUBSC	cyService		The name of this Web Service WSDL file that defines the pub			
Start and stop a Web Service     View the Web Service configuration     View the WSDL of a Web Service     Monitor a Web Service     Install a Web Service							volutine that dennes the put	and contract on Bills Web		

Configure an Enterprise application			-			
Update (redeploy) an Enterprise application			Active	🖋 ОК	Resource Adapter	322
<ul> <li>Start and stop a deployed Enterprise application</li> </ul>			Active	🖋 ок	Enterprise Application	314
Monitor the modules of an Enterprise application		OMS Application (11.1.1.0)	Active	🖋 ок	Web Application	190
Deploy EJB modules Install a Web application		€ Com	Active	🖋 ок	Enterprise Application	400
iystem Status			Active	🖋 ок	Enterprise Application	100
ealth of Running Servers		🖃 Modules				
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Critical (0)		EJBs				
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		( FCUBSCcyService			Web Service	
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WebLogic Server Version: 10.3.1.0 Copyright © 1996,2009, Oracle and/or its affiliates. All righ						

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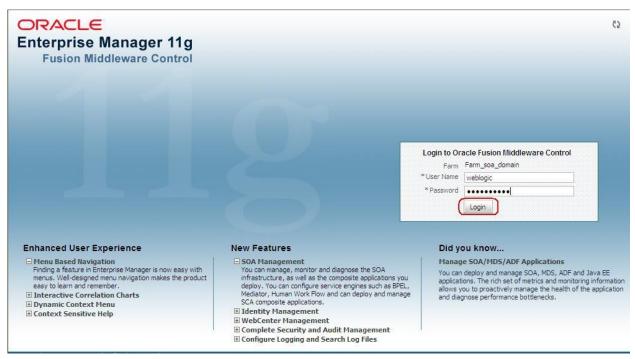
Change Center	Home	Log Out Pr	eference	s 🚵 Reco	rd He	ip	Q	Welcome, weblogic	Connected to: soa_doma
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Domain Structure	General	Handlers	WSDI	WS-Pol	icv	Port Components			
soa_domain								f this WebService. The operatio	
B-Environment →Deployments -Services B-Messaging E→JDBC →Data Sources →Multi Data Sources	endpoint can speci	- click on th	ie + sign policy file	to view ther applies onl	n. Clid y for ir	k on the endpoint hoound (request) :		o configure an associated policy d so on .	file. For example, you
	endpoint can speci	- click on th fy that the	ie + sign policy file	to view ther applies onl	n. Clid y for ir	k on the endpoint hoound (request) :	or operation name to	o configure an associated policy d so on .	
B-Environment →Deployments -Services B-Messaging E→JDBC →Data Sources →Multi Data Sources	endpoint can speci WS-Polic	- click on th fy that the	ie + sign policy file sociated	to view ther applies onl	n. Click y for ir <b>s Web</b>	k on the endpoint hoound (request) :	or operation name to	o configure an associated policy d so on .	file. For example, you



# 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).



	Farm_soa_domain 🖲			Page Refreshed (	Oct 26, 2009	Logged in as weblo 7:58:50 PM GMT+05:30
	🗆 Deployments			🗆 Fusion Middleware		6
	100%		■Up (22)	202 202		Down (1) Up (4)
	Name	Status	Target	Name	Status	Host
	🖂 🚞 Application Deployments			🖃 🛅 WebLogic Domain		
	🗄 🚞 Internal Applications			🖃 💾 soa_domain		
H	🗉 🛅 Resource Adapters			AdminServer	Û	cvrhp0707.i-flex
	PefaultToDoTaskFlow	Û	soa_server1	🗐 bam_server1	-	
	FCUBSCcyService		soa_server1	soa_server1	Û	cvrhp0707.i-flex
	GW_EJB_Bean		soa_server1	🖂 🚞 Metadata Repositories		
	骨 worklistapp		soa_server1	🐼 mds-owsm		cvrhp0707.i-flex
	🖂 🛅 SOA			🐼 mds-soa		cvrhp0707.i-flex
	🚼 soa-infra		soa_server1	🖂 🛅 User Messaging Service		
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3. Select Test Web Service link from the fusion middleware control.

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

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	WS-RM  WSDL Default  None  Custom Policy URI	MTOM  WSDL Default  None  Custom Policy URI	
	WS-Addressing ③ WSDL Default ③ None ③ Custom Policy URI	]	

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



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	Port FCUBSCcyServiceSEI Operation QueryCcyDefn Endpoint URL http://cvrhp0707.i-flex.com:8001/FCUBSCcyService/FCUBSCcyService Request Response	Edit Endpoint URL	
	Security            WSS Username Token              WSS Username Token              Username              Username                   Quality of Service              WS-RM              WS-RM		

7. Enter the Request Message and Click on Test Web Service button.

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	* RequestMsg	string	<fcubs_req_env><fcubs_h< td=""></fcubs_h<></fcubs_req_env>

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

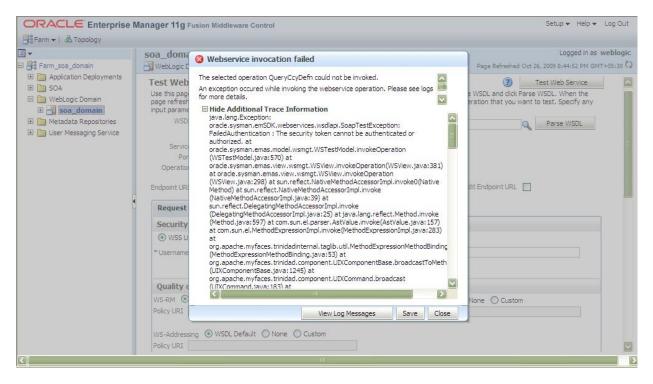


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9. Wrong credential will result to an error during Testing of web service.

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Application Deployments     SOA     WebLogic Domain     Soa_domain     Metadata Repositories	Test Web Service  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 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.	3
🗄 🛅 User Messaging Service	http://cvrhpu/u/.i-flex.com:8001/FCUBSCcyservice/FCUBSCcyservice/WSDL	
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	* Username weblogic12 Password •••••	
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	Policy URI Policy URI	
	WS-RM   WSDL Default   None   Custom  MTOM   WSDL Default   None   Custom	





### 5.2 <u>Testing of Web Service via SOAP UI (eviware soapUI3.0.1)</u>

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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CCYPositionHoff     CCYPositionHoff     CurrencyPairDefnQuery	Name Default Username/Alias Default Password Actor Must Understand	
<ul> <li>CurrencyPositionQuery</li> <li>FwdrateMasterAuthorize</li> <li>FwdrateMasterDelete</li> <li>FwdrateMasterNew</li> <li>FwdrateMasterQuery</li> <li>QueryCcyDefn</li> <li>Request 1</li> <li>RatesMasterAuthorize</li> <li>RatesMasterDelete</li> <li>RatesMasterPolety</li> <li>RatesMasterQuery</li> <li>RateSCyServiceSEIBinding TestSuit</li> </ul>	t_ ≤_ Username Username: Username: Weblogic Password: Add Nonce: Add S a nonce Add Created: Password Type: PasswordText ▼	
Project Properties Custom Properties Property Value		
Name FCUBSCcyService Description File D:\soapui-3.0.1 V	resp	(0)
Properties	soapUI log http log jetty 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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3. Run the request by clicking the button as shown.

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Request Properties Property Value		<pre><settlemntmsgdays>0</settlemntmsgdays> <indexflag>n</indexflag></pre>		
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Properties	soapUI log http log jetty log error log wsrm log memory log			





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