### Oracle Web Service Manager Implementation Guide Oracle FLEXCUBE Universal Banking Release 14.3.0.0.0 [May] [2019]



### **Table of Contents**

1.	INT	RODUCTION	1-1
2.	PRI	EREQUISITES	2-1
		TALLATION	
4.	AT	TACHING POLICIES TO THE WEB SERVICE	4-1
		STING WEB SERVICE WITH POLICIES	
4	5.1	TESTING WEB SERVICE THROUGH ENTERPRISE MANAGER	5-1
4	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.

	ninistra	ition Console								
Change Center 1	Hom	e Log Out Preferences 🔤 Record Help	Q	W	elcome, weblogic	Connected to: <b>soa_domair</b>				
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Foreign JNDI Providers	Insta	Showing 1 to 10	of 26 Previous   Next							
XML Registries		Name 🏟	State	Health	Туре	Deployment Order				
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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		☑ ODMS Application (11.1.1.1.0)	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
<ul> <li>Start and stop a deployed Enterprise application</li> </ul>		DefaultToDoTaskFlow	Active	🖋 ок	Enterprise Application	314
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Deploy EJB modules     Install a Web application		⊕ Coem	Active	🖋 ок	Enterprise Application	400
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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
		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										
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	Overview Configuration	Security Testing	Monitoring	of Deployments > build > Summary of Deployments > FCUBSCcyService > Summary of FCUBSCcyService         pring         entity that is available to other systems on a network. It is implemented using a s JWS metadata annotations to specify the shape and behavior of the Web         Web Service, such as the name that appears in the Deployments table of the which it is packaged, and name that appears in the WSDL that describes the Web         see       The name of the Web Service as it appears in the Deployments table. More Info         se.war       The name of the Web Service archive file, either a WAR file or EJB JAR file depending on the Web Service features it implements. More Info							
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How do L  Start and stop a Web Service  Wew the Web Service configuration  View the WSDL of a Web Service	Service Name:	FCUBSC	CcyService	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 FCUBSCcyService		
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Deployments			
D-Services			
⊕-Messaging			pe of archive it is packaged in (WAR or EJB JAR), the file
Ê-JDBC	that contains the Web Service imp	plementation, and so on.	
Data Sources			
Data Sources	Name:	FCUBSCcyService	The name of the Web Service. More Info
Persistent Stores			
Foreign JNDI Providers	Description:	(No value specified)	Specifies the description of the Web Service. More
Work Contexts			Info
XML Registries			
XML Entity Caches	Web Service Type:	JAX-WS 2.1	The Web Service Type (JAX-WS / JAX-RPC). More Info
How do I			1110
	Implementation Type:	WAR	
<ul> <li>Start and stop a Web Service</li> </ul>			
<ul> <li>View installed Web Services</li> </ul>	Implementation Source:	FCUBSCcyService.war	
<ul> <li>View the WSDL of a Web Service</li> </ul>			
<ul> <li>Monitor a Web Service</li> </ul>	🐻 WSDL Publish File:		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.
	1		Valid values include true or false. If set to true, then the
Sustan Status	1		server returns the WSDL upon request using the URL
System Status			format: service_address?WSDL. If false, then the server returns a 404 code because the WSDL is not available.
Health of Running Servers			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.

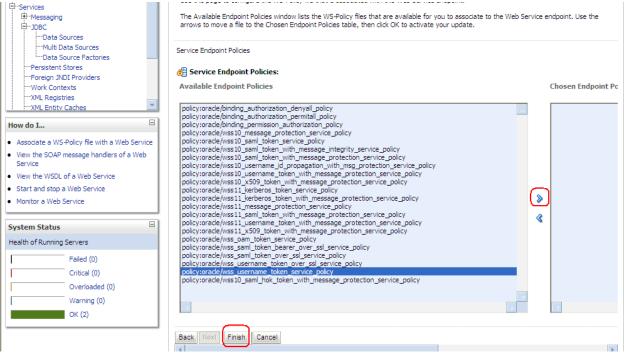
	Administrati	on Consol	e						
Change Center	🙆 Home	Log Out Pre	eference	s 📐 Record	Help	٩	Welcome, weblog	gic Connected to: soa_domain	
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							Showing	1 to 1 of 1 Previous   Next	
Foreign JNDI Providers	Service	e Endpoints	s and O	perations 🚕				Policies	
Work Contexts XML Registries XML Entity Caches	E FCU	BSCcyService	eSEI				Showing	1 to 1 of 1 Previous   Next	
How do I							Showing	TO TO THE HEADS   NEXT	

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



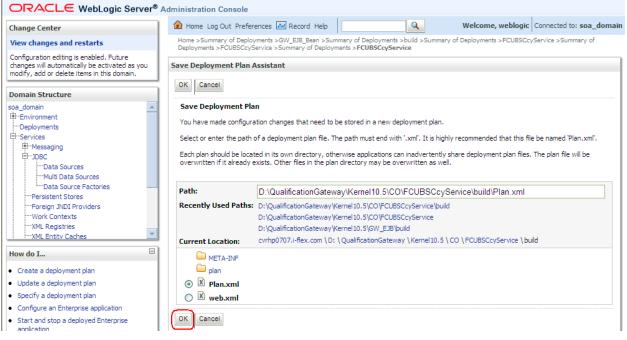


6. Select policy:oracle/wss\_username\_token\_service\_policy and click on finish.

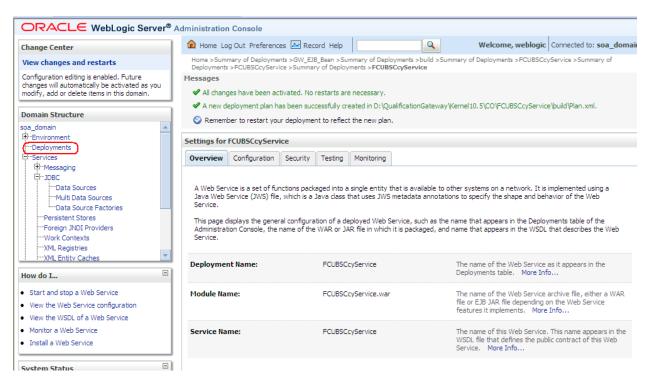


7. Update the plan.xml.



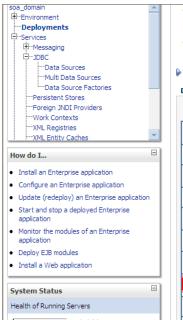


8. Click on Deployment to restart the application to reflect the plan.



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	Update Delete Start ~	Stop ₩			Showing 1 to 10	of 26 Previous   Next
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	🗉 📑 b2bui		Active	🖋 ОК	Enterprise Application	313
	👼 DbAdapter		Active	🖋 ОК	Resource Adapter	322
			Active	🖋 ОК	Enterprise Application	314
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#### 10. Starting the application.

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



Domain Structure	Summary of Deployments											
soa_domain	Contro	Monitoring										
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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			Active	🖋 ок	Resource Adapter	322
<ul> <li>Start and stop a deployed Enterprise application</li> </ul>		DefaultToDoTaskFlow	Active	🖋 ок	Enterprise Application	314
<ul> <li>Monitor the modules of an Enterprise application</li> </ul>		DMS Application (11.1.1.1.0)	Active	🖋 ок	Web Application	190
Deploy EJB modules     Install a Web application		🗈 📑 em	Active	🖋 ок	Enterprise Application	400
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Monitor a Web Service									
Install a Web Service									

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Health of Running Servers		⊟ Modules				
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		€ FMW Welcome Page Application (11.1.0.0.0)	Active	🖋 ОК	Enterprise Application	150
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WebLogic Server Version: 10.3.1.0 Copyright © 1996,2009, Oracle and/or its affiliates. All right						

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	Overview	Configu	ration	Security 1	esting	Monitoring			
Domain Structure	General	Handlers	WSDL	WS-Policy	Por	rt Components			
soa_domain	Centerda	r landier o		TO FORE	1.0	e componento			
⊖-Services ⊕-Messaging ⊖-JDBC Data Sources									
Multi Data Sources								Showing 1 t	o 1 of 1 Previous   Next
Persistent Stores Foreign JNDI Providers	Service	Endpoint	s and Op	perations 🚕			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).



Image: Second state in the second state is a second state in the second state is a second state in the second state is a second state		Farm_soa_domain 🗿			Page Refreshed (	Oct 26, 2009	Logged in as weblog 7:58:50 PM GMT+05:30
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					Farm Resource Center		6

3. Select Test Web Service link from the fusion middleware control.

ORACLE Enterprise	Ма	nage	r 11g Fusion	Middlew	are Control								Se	tup 👻 Help	<ul> <li>Log Out</li> </ul>
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	1.			_								GW_EJB_B			د د 🗸
	R	🗆 Ora	acle WebLogio	: Domai	n Resource C	enter				¥	(=	worklistapp			2
		- I -													

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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Image: Soa_domain ()       Image: Barm_soa_domain       Image: Barm_soa_domain       Image: Barm_soa_domain   Page Refreshed Ox	Logged in as <b>weblogic</b> 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.

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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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Image: Second secon	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 refreshes with the WSDL details, first select the Service, then select the Port, and then select the Operatio parameters, and click rest Web Service.             WSDL         Inttp://cvrhp0707.I-flex.com:8001/FCUBSCcyService/FCUBSCcyService?WSDL         HTTP Basic Auth Option for WSDL Access         Service FCUBSCcyServiceSEI         Operation         QueryCcyDefn         ©         Endpoint URL         http://cvrhp0707.I-flex.com:8001/FCUBSCcyService/FCUBSCcyService         FcUBSCcyServiceSEI         Operation         QueryCcyDefn         ©         WSDL Bename Token         HTTP Basic Auth         Custom Policy         None         * Username         webblogic         Password         Ouropy         WSDL Default         None         Vusername         WSDL Default         None         Ouropy         WSDL Default         None         Ouropy         WSDL Default         None         Ouropy         WSPL Default         None         Ouropy         None         None         NTOM         WSPL Default         None         Ouropy         None         Ouropy         None         Ouropy	en that you want to test. Specify any input

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

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	Request	rest Response			Test Web Service	

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

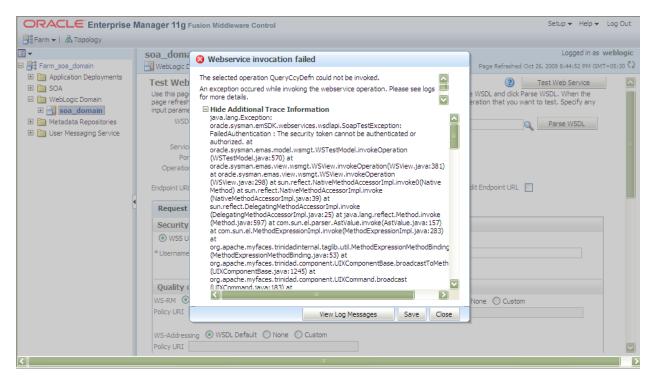


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I ▼ I III Farm_soa_domain	soa_domain ⓐ ➡ WebLogic Domain ◄			Logged in as weblogic Page Refreshed Oct 26, 2009 8:44:52 PM GMT+05:30 🗘
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9. Wrong credential will result to an error during Testing of web service.

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Farm V & Topology  Farm_soa_domain  Far	soa_domain ③       Logged in as we         WebLogic Domain ▼       Page Refreshed Oct 25, 2009 81:44:52 PM GMT+I         Test Web Service       ②       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 Operation that you want to test. Specify any input parameters, and click Test Web Service.       WSDL       WSDL       WSDL       Nthen the 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 parameters, and click Test Web Service.       WSDL       WSDL       WSDL       Parse WSDL       Q       Parse WSDL         WSDL       http://cvrhp0707.i-flex.com:8001/FCUBSCcyService/FCUBSCcyService?WSDL       Q       Parse WSDL       Parse WSDL         HTTP Basic Auth Option for WSDL Access       Service       FCUBSCcyService       Port       FCUBSCcyServiceSEI       Operation       QueryCcyDefn       Q         Endpoint URL       http://cvrhp0707.i-flex.com:8001/FCUBSCcvService/FCUBSCcvService       Edit Endpoint URL       Edit Endpoint URL       Edit Endpoint URL	
	Request       Response         Security <ul> <li>WSS Username Token O HTTP Basic Auth O Custom Policy O None</li> <li>* Username weblogic 12</li> <li>Password ••••••</li> </ul> Quality of Service <ul> <li>WS-RM O WSDL Default O None Custom</li> <li>Policy URI</li> <li>WS-Addressing O WSDL Default O None O Custom</li> </ul>	





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

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	<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&lt;/td&gt;         &lt;S: Body&gt;         &lt;QueryCcyDefnResponse xmlns="> </s:>	







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