Oracle Utilities Customer Self Service

Whitepaper: Migration of XAI Services to IWS Services Release 2.1.0 Service Pack 2 E67957-01

October 2015



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Chapter 1

Overview

This whitepaper describes the steps necessary for OUCSS to connect to OUCCB services using JAX-WS based Inbound Web Services (IWS). Oracle Utilities Application Framework currently provides the capability to expose any object within the product as a web service via the XML Application Integration (XAI) component. OUCSS consumes these web services by directly connecting to CCB environment or through the Oracle SOA architecture.

In Oracle Utilities Application Framework V4.2.0.2.0, a new native Web Services facility was introduced that has several advanteages over XAI. This facilitates tracking and management of individual web services using Oracle Enterprise Manager, providing enhanced security features with compliance for WS-Policy standards, as well as providing access to a wide range of authentication and encryption mechanisms, including web service clustering capabilities. This document describes how to consume IWS based web services hosted in OUCCB from within the OUCSS application.

Additional Resources

Resource	Location
Oracle Utilities Customer Self Service Installation Guide	Check Oracle Utilities Customer Self Service on the Oracle Technology Network (OTN) web site (<u>http://www.oracle.com/technetwork/apps-tech/utilities/documentation/index.html</u>) for the latest version of the documents
Oracle Utilities Customer Self Service Implementation Guide	Check Oracle Utilities Customer Self Service on the Oracle Technology Network (OTN) web site (<u>http://www.oracle.com/technetwork/apps-tech/utilities/documentation/index.html</u>) for the latest version of the documents

Acronyms

OUCSS - Oracle Utilities Customer Self Service OUCCB – Oracle Utilities Customer Care & Billing XAI – XML Application Integration IWS – Inbound Web Services

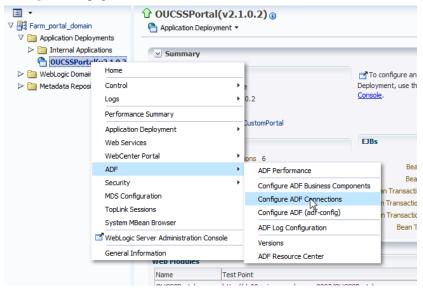
Chapter 2

Configuration

This section describes the settings and procedures for consuming IWS based web services instead of using XAI based web services. The settings depend on whether CSS is directly connected to CCB, or is connected via Oracle SOA. Both approaches are described below.

If CSS is Directly Connected to CCB

- 1 Change the CCB URLs to point to IWS instead of XAI. For example, the URL http://HOST:PORT/APPROOT/XAIApp/xaiserver/WXViewAccount would be changed to http://HOST:PORT/APPROOT/webservices/WXViewAccount.
- 2 Login to Oracle Enterprise Manager and navigate to Application Deployments > OUCSSPortal.
- 3 Right click on OUCSSPortal. Choose ADF > Configure ADF Connections. to open the ADF Connections Configuration page.



6

4 Go to Web Service Connections.

Web Service Connections				
🥜 Edit 📑 Delete Advanced C	Connection Configuration 🔻			
Connection Name	Default Service Name	WSDL URL		
PaymentArrangement	{http://ouaf.oracle.com/spl/XAIXa	. http:/	oa-infra/services/OUCSS/OUCSSOUCCBWXProcessPayArrangementRequestEBF/OUCSSOUCCBWXProcessPayArrangementRequest_Client_ep?WSDL	-
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DUCSSReadDocumentService	{http://xmlns.oracle.com/OUCSSR	http:/	oa-infra/services/OUCSS/OUCSSReadDocumentEBF/oucssreaddocumentprocess_client_ep?WSDL	
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ViewBillService	{http://ouaf.oracle.com/spl/XAIXa	http:/	oa-infra/services/OUCSS/OUCSSOUCCBWXBillViewEBF/OUCSSOUCCBWXBillView_Client_ep?WSDL	

5 Select a connection from the list, then click **Edit**.

Web Service Connectio	n	×
Specify properties for	r SSViewAccountService connection.	
	tion of the Web Service connection, including attaching and detaching policies, close this popup Connection Configuration [®] .	p, select your connection WSDL UF
WSDL URL	http://infra/services/OUCSS/OUCSSOUCCBWXViewAccount	tEBF/OUCSSC
Default Service Name	{http://ouaf.oracle.com/spl/XAIXapp/xaiserver/WXViewAccount}WXViewAccountService	
		OK Cancel
Modify the WSDI	L URL to point to an IWS service.	
Web Service Connectio	on	

Specify properties fo	r SSViewAccountS	service connection.		
For advanced configura and choose "Advanced		vice connection, including attaching and detaching policies, close this popup, select you ation".	ur co	onnection
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Default Service Name	{http://ouaf.oracle.	.com/spl/XAIXapp/xaiserver/WXViewAccount}WXViewAccountService		

7 Select the same service again and choose Advanced Connection Configuration > Service Name.

Web Service Connections							
🧪 Edit 🛛 🔒 Delete	Advanced Connection Configuration 🗸						
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PrepaidEstimatesAndCo	stService	{http://ouaf.oracle.com/spl/XAIXa	http://s				
SSViewAccountService		{http://ouaf.oracle.com/spl/XAIXa	http://s				
SSFormsManagementUp	dateService	{http://ouaf.oracle.com/spl/XAIXa	http://s				
GreenButtonService		{http://xmlns.oracle.com/CSSMDM	http://s				

8 Modify the Endpoint Address on the Configuration tab with the IWS service URL (e.g.,

http://HOST:PORT/APPROOT /webservices/WXViewAccount (note: don't include "WSDL" in the URL).

DF Connections Configuration > Configure Web Service	
KViewAccountPort (Web Service Client)	
OWSM Policies Configuration	
	Apply Revert
General	HTTP Basic Authentication
Endpoint Address L1/spl/webservices/WXViewAccount	HTTP User Name weblogic
Maintain Session	HTTP User Password
HTTP Chunking	Preemptive
Stop Chunking True	HTTP Proxy
Chunking Size(bytes) 4096	Proxy Host
HTTP Timeout	Proxy Port
HTTP Read Timeout (ms)	Proxy User Name
HTTP Connection Timeout (ms)	Proxy User Password
	Proxy Realm
	Proxy Authentication Type

9 Select the OWSM Policies tab. The security policy attached to this IWS service should be configured from this screen.

	ration > Configure web Service rt (Web Service Client)		
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csf.map			
		basic.credentials	

10 Note the **Attached Policies** for this web service. The policy should match the policy configured for this service on the CCB side.

11 If the policy declared on the CCB side is different that what is configured here, the policy must be changed. To change the policy, press the **Attach/Detach** button. A popup window will open to allow you to make the change.

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12 Select the existing policy and click on **Detach**. Find the policy matching the configuration in CCB from within the **Available Policies** panel. If, for example, the policy wss_username_token_client_policy is configured for this service in CCB. When the policy is selected, press the **Attach** button to attach this policy to the service.

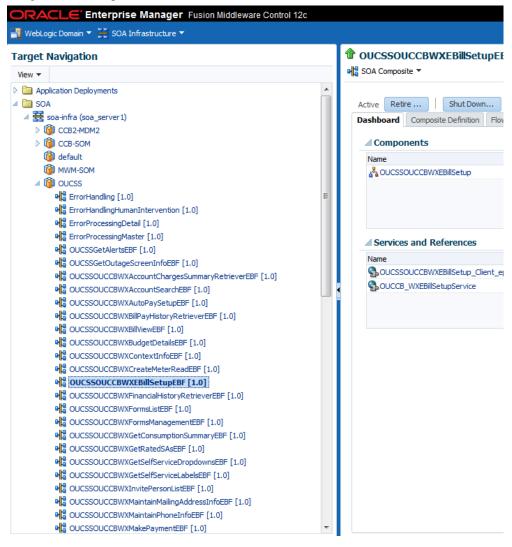
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tach/Detach Policies(WXViewAccountPort)	Ok	Valio	date	Check Serv	ices Compatibility	Cancel	
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- **13** Click **OK** to return to the parent window. Make sure other **Security Configuration Details** are relevant and correct, (e.g., **csf-key**), then return to the **Configuration** tab and press **Apply**.
- 14 Repeat the procedure for all defined web services.
- **15** Restart the server hosting the OUCSSPortal web application.

If CSS is Connected to CCB Through SOA

- 1 If CSS is connected to CCB through Oracle SOA, then migration from XAI to IWS requires changes on the SOA end. Note that no change is required on the CSS end since CSS will continue to interact with SOA in the same manner it did with XAI.
- 2 When consuming IWS-based services, the SOA endpoint URLs need to be modified to point to IWS instead of XAI. For example, the URL http://HOST:PORT/APPROOT/XAIApp/xaiserver/WXViewAccount would be changed to http://HOST:PORT/APPROOT/webservices/WXViewAccount.
- 3 Changing an endpoint URL to a partner link can be done in SOA by modifying the CSSCCBConfigurationProperties.xml file (which contains links to XAI-based services) from MDS.
- **4** Once the endpoint URLs are changed, the security policy attached to those composites in SOA also need to be changed to match the policy set in IWS.

5 To make the changes, log in to Oracle Enterprise Manager on the WebLogic server that hosts the SOA composites, then navigate to the composite that needs to be modified.



6 Select the **Policies** tab from panel on the right side of the window.

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7 Select the policy on the partner link to modify.

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orade/wss_http_token_client_policy	CB_WXEBillSetupService	Disable	Security	0	0	0	0	

8 If the attached policy does not match the WS-Policy set on the IWS service, select the policy and press **Detach**.

Warning							
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9 Choose appropriate policy from the list of policies within 'Available Policies' panel. Click on Attach.

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9 Save this composite and repeat the procedure for all other composites.

10 Restart the SOA server after all composites are modified.

Using Scripts to Change XAI Connections to IWS

Changing XAI connections to IWS can also be achieved using provided scripts, as described in the following procedure:

- 1 Verify that InstallProperties.xml is updated as described elsewhere this Installation Guide.
- 2 Set up the environment by performing steps 3 to 6 in the <u>Installing OUCSS Portal</u> section.
- **3** Run the following ant scripts with the additional -DisIWS.enabled parameters to change CCB connections from XAI to IWS. Note that each of the commands is a single line, and may require copying to a text editor and modifying accordingly before pasting into your command window.

If no security annotation is enabled on the CCB IWS service, run the following commands to use oracle/wss_http_token_client_policy_OWSM policy for authentication:

On Linux/UNIX:

```
ant -f InstallBuild.xml detokenizePortalConnections -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -DisIWS.enabled=true -l
IWSConnections.log
```

On Windows:

```
ant -f InstallBuild.xml detokenizePortalConnections -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -DisIWS.enabled=true -l
IWSConnections.log
```

If the Username token annotation is enabled in CCB IWS services, run the following command to replace the default policy with the oracle/wss_username_token_client_policy:

On Linux/UNIX:

```
ant -f InstallBuild.xml detokenizePortalConnections -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -DisIWS.enabled=true
-Dpolicy.name=oracle/wss_username_token_client_policy -l IWSConnections.log
```

On Windows:

```
ant -f InstallBuild.xml detokenizePortalConnections -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -DisIWS.enabled=true
-Dpolicy.name=oracle/wss_username_token_client_policy -l IWSConnections.log
```