Oracle Web Service Manager Implementation Guide
Oracle Banking Corporate Lending
Release 14.7.5.0.0
Part No. G16885-01
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1. Introduction

The Oracle Web Services Manager (WSM) Policy Manager is the security and management policy lynchpin for Oracle Fusion Middleware 11g 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.

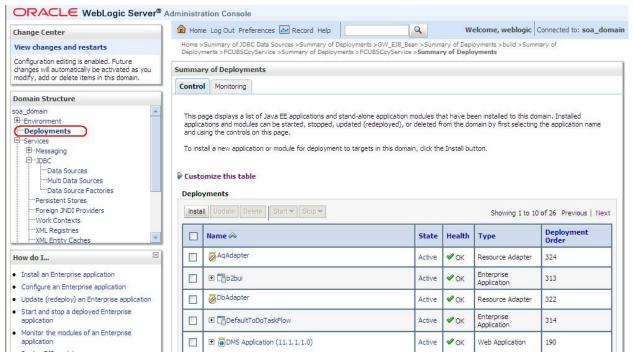


4. Attaching policies to the Web Service

The following policy which have been tested with FLEXCUBE services:

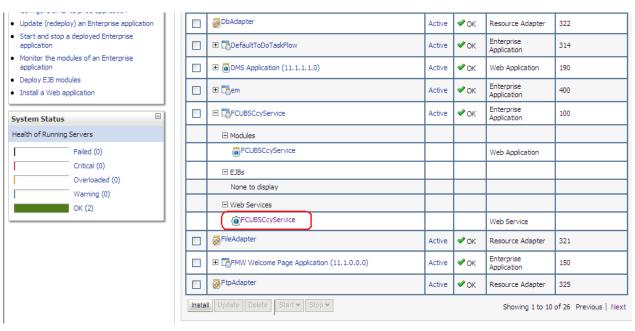
- policy:oracle/wss_username_token_service_policy
- Please follow the procedure mentioned to attach a policy to the web service.

Navigate to the Summary of Deployments page.

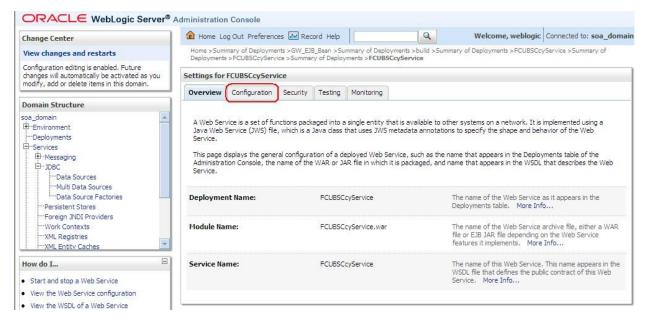


1. Expand the web service application and click on Web Services link.



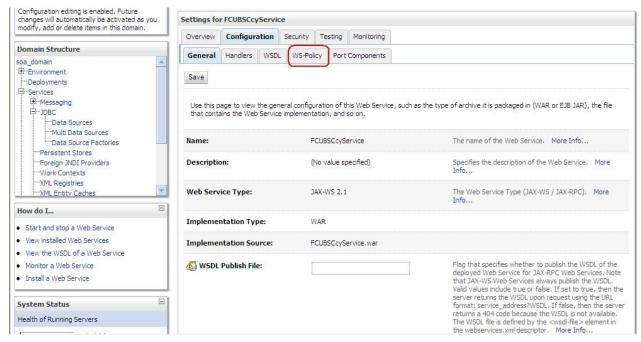


2. Navigate to the Configuration tab.

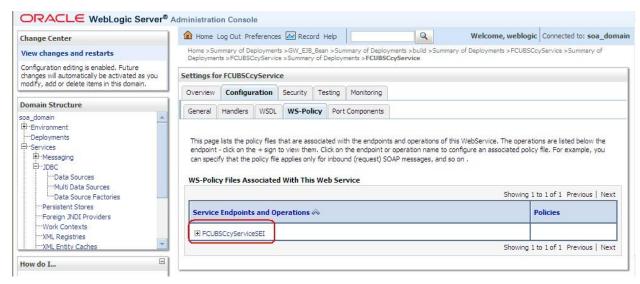


3. Click 'WS-Policy'.





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

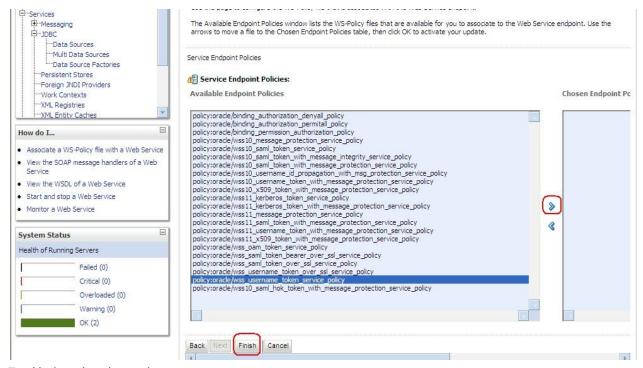


5. Select OWSM web service policy and navigate to the next page by clicking on 'Next'.



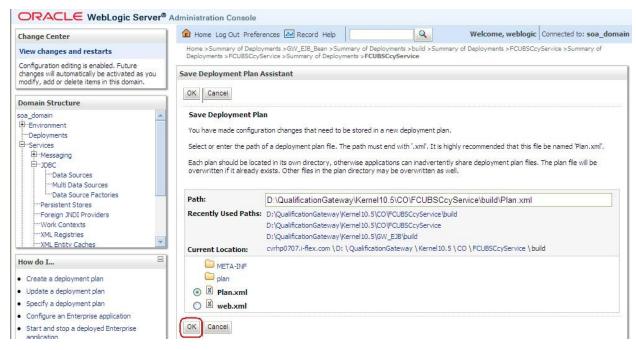


6. Select policy:oracle/wss_username_token_service_policy and click on finish.

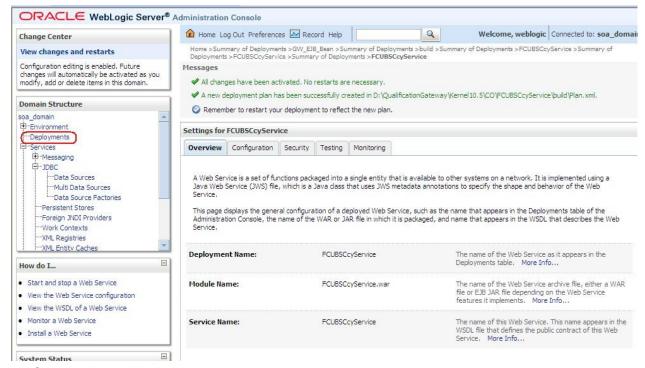


7. Update the plan.xml.



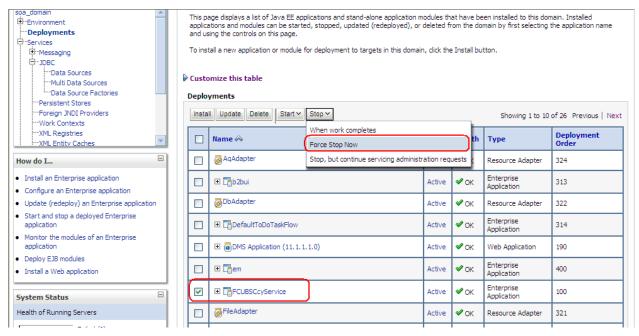


8. Click on Deployment to restart the application to reflect the plan.

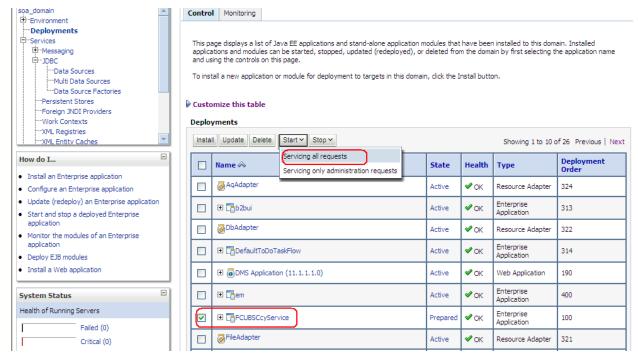


9. Stopping the application.



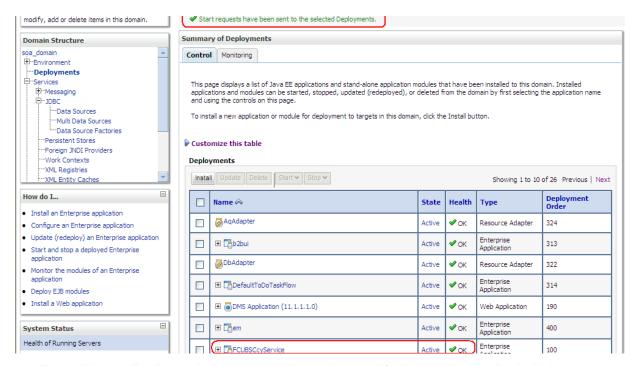


10. Starting the application.

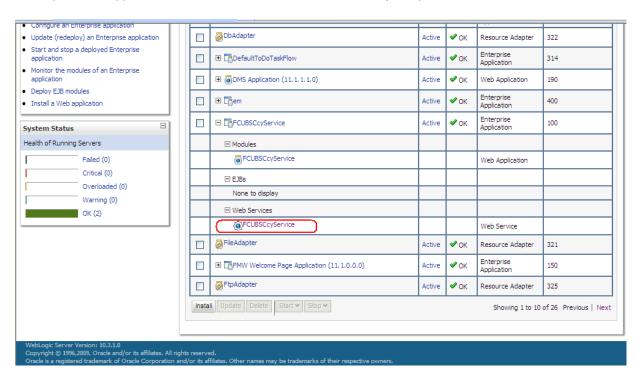


11. After starting the application make sure that it is active.

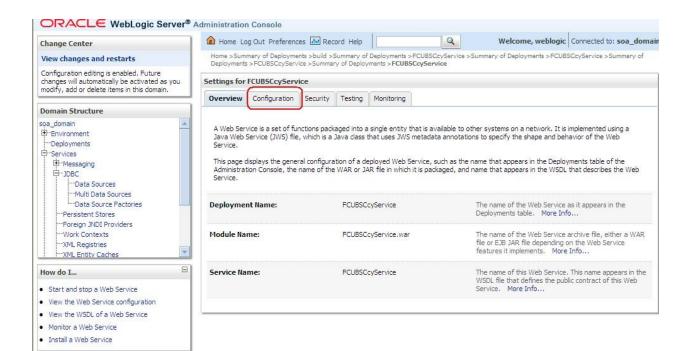


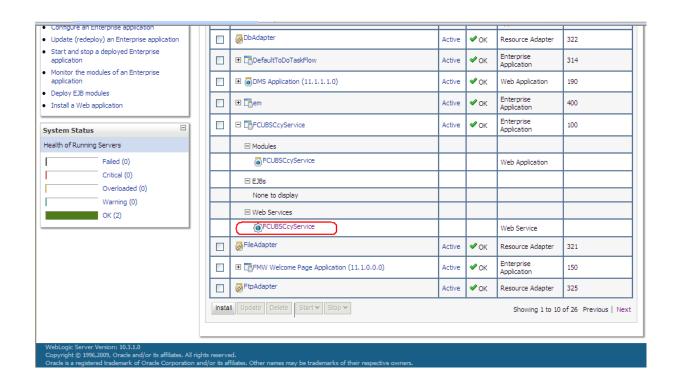


12. Expand the application and click on the web service to verify the policies attached with it.

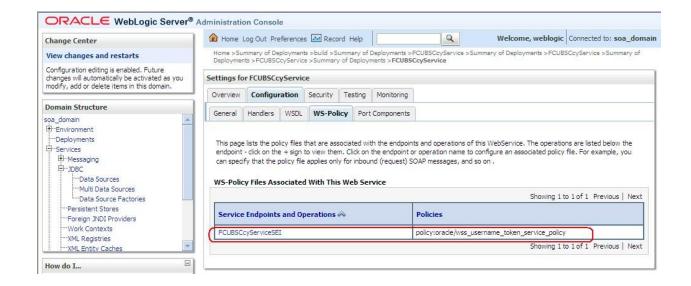










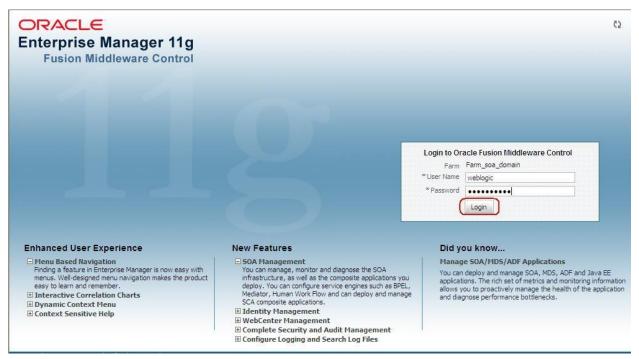




5. Testing Web Service with Policies

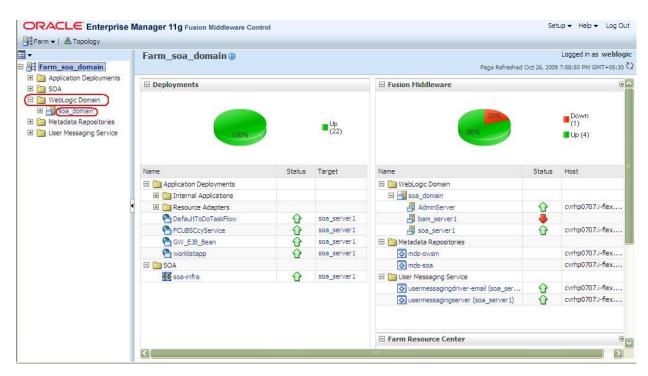
5.1 <u>Testing Web Service through Enterprise Manager</u>

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

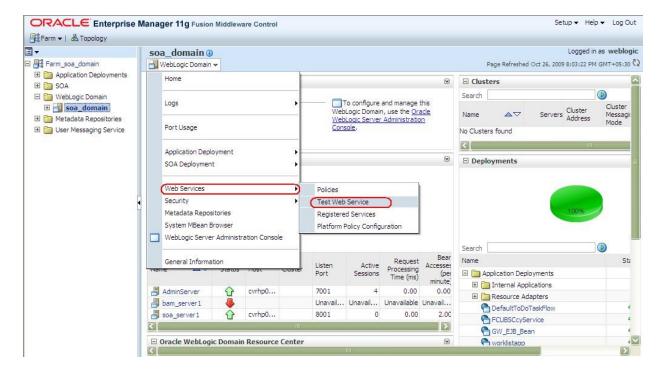


2. Expand the Weblogic Domain and Select the domain (created during SOA installation).



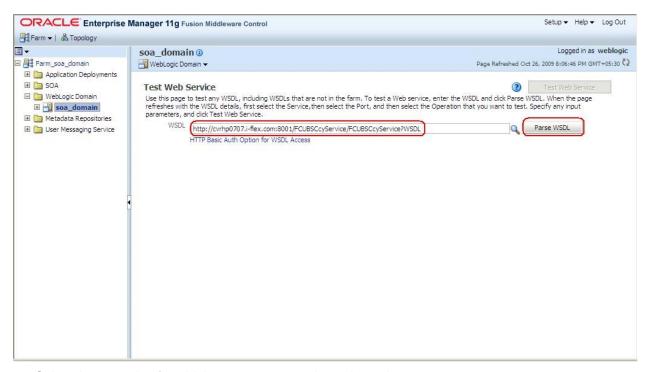


3. Select Test Web Service link from the fusion middleware control.

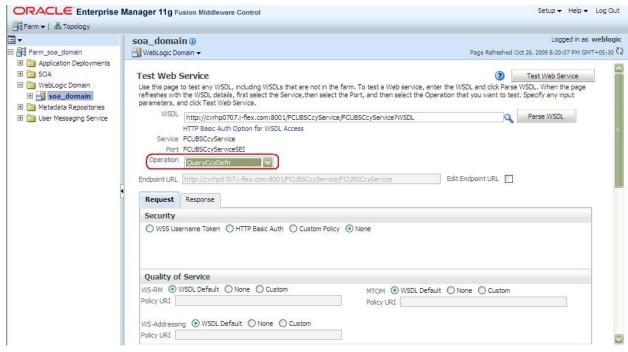


4. Enter the WSDL URL of the web service for which policy is applied and click on Parse WSDL.



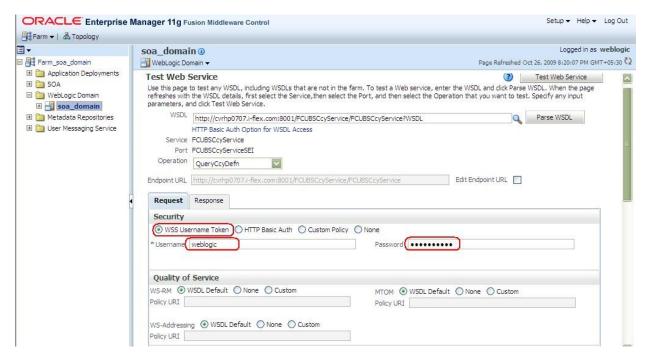


5. Select the operation for which you want to test the web service.

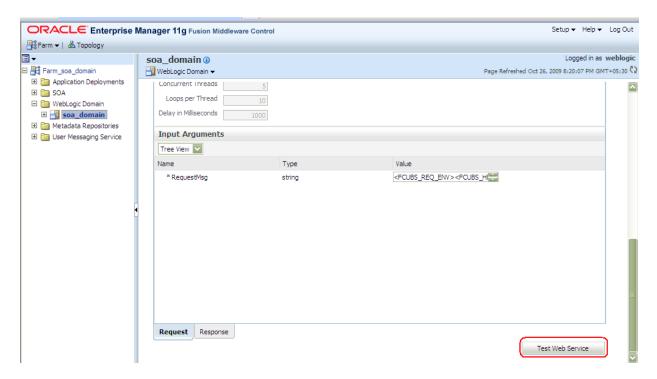


6. Select WSS Username Token and enter the Weblogic credentials.



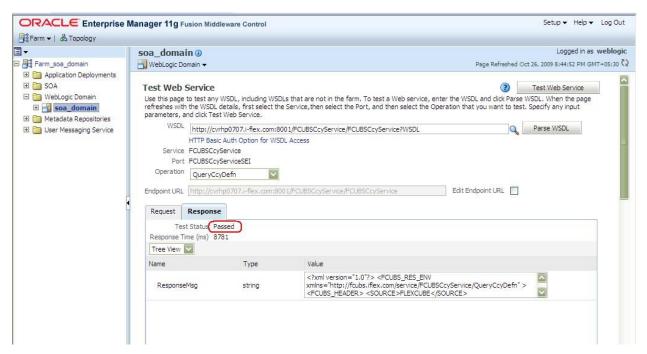


7. Enter the Request Message and Click on Test Web Service button.

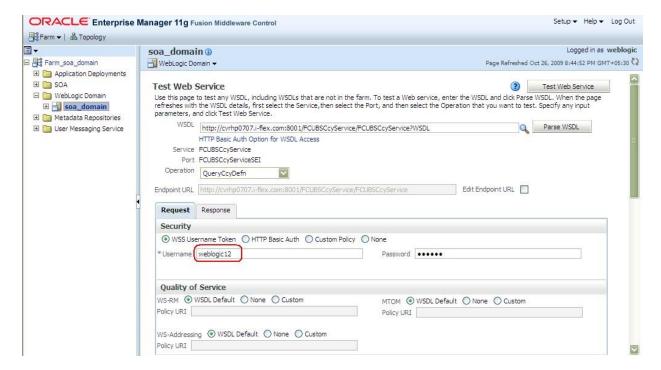


8. The Test Status Passed indicates the web service is properly authenticated by the policy.

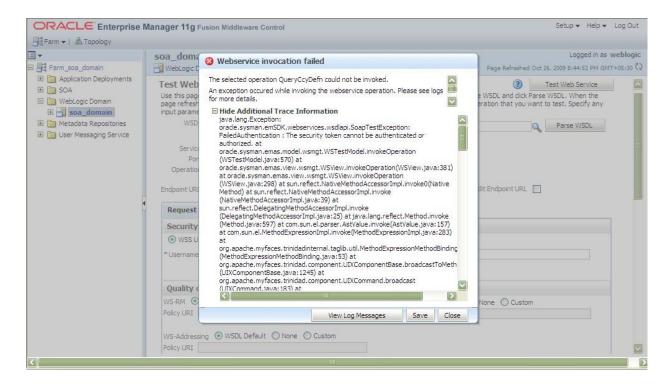




9. Wrong credential will result to an error during Testing of web service.





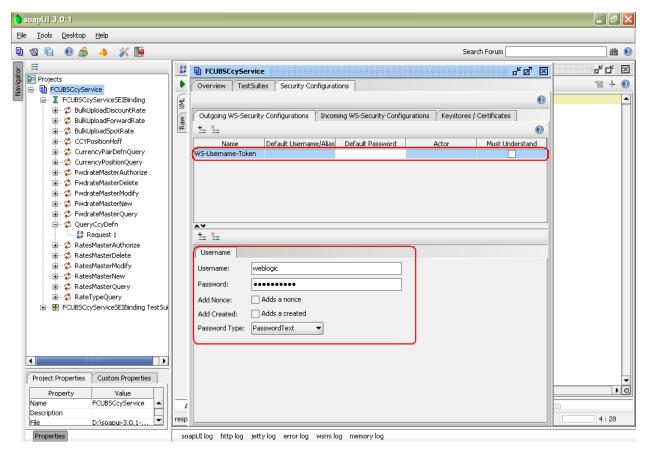


5.2 Testing of Web Service via SOAP UI (eviware soapUI3.0.1)

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

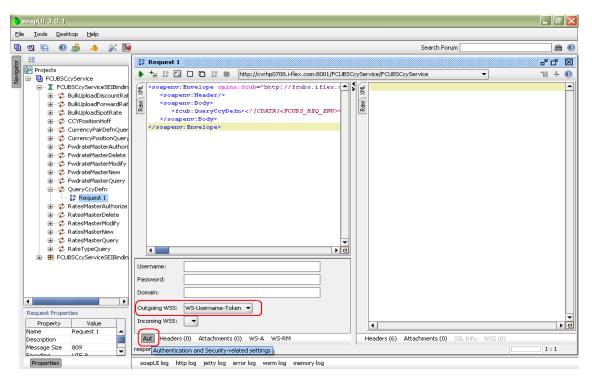
Configure the Outgoing WS- Security Configurations by double clicking the project and navigating to the Security Configurations tab.



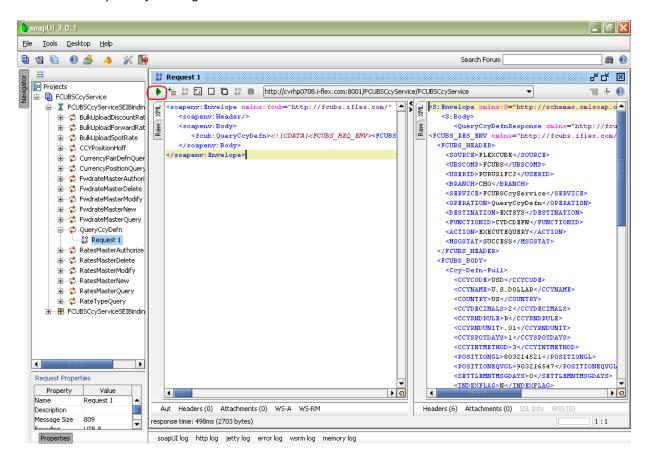


- 1. Create a new request for the operation, which you want to invoke.
- 2. Configure the Authentication and security related setting by going to Aut Section as shown to apply the WS-User Token into the request.





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







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