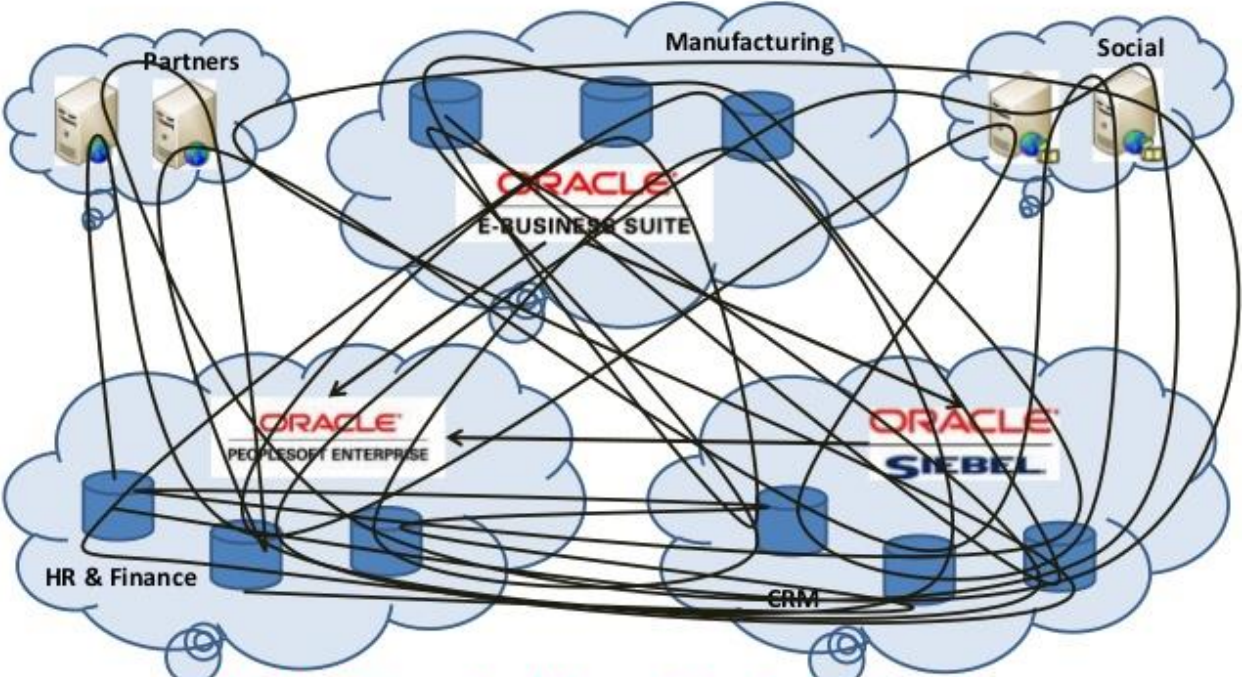


Chapter 1: Getting Started with SOA and WSO2

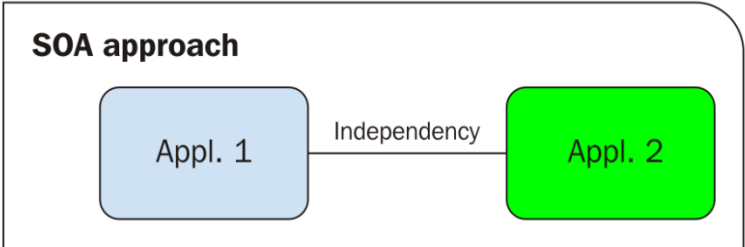
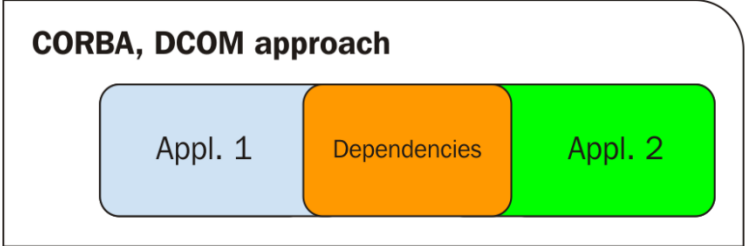


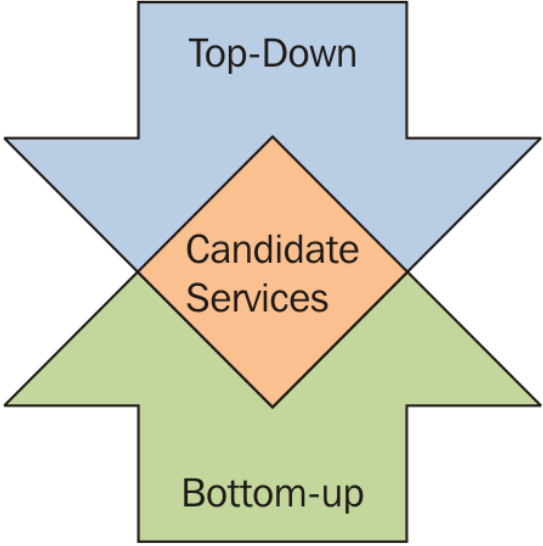


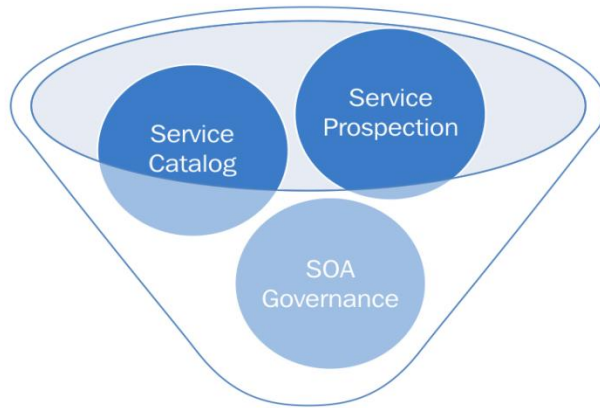
Spaghetti Integrations – More complex than ever before



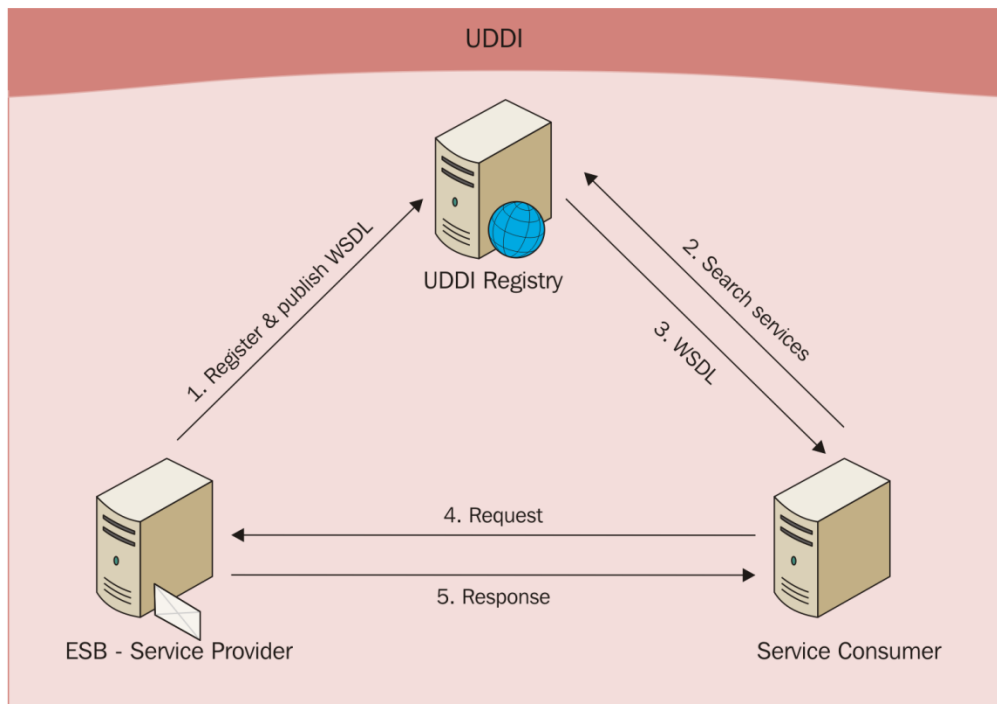
Highly Complex Integration Infrastructure







SOA Organizing



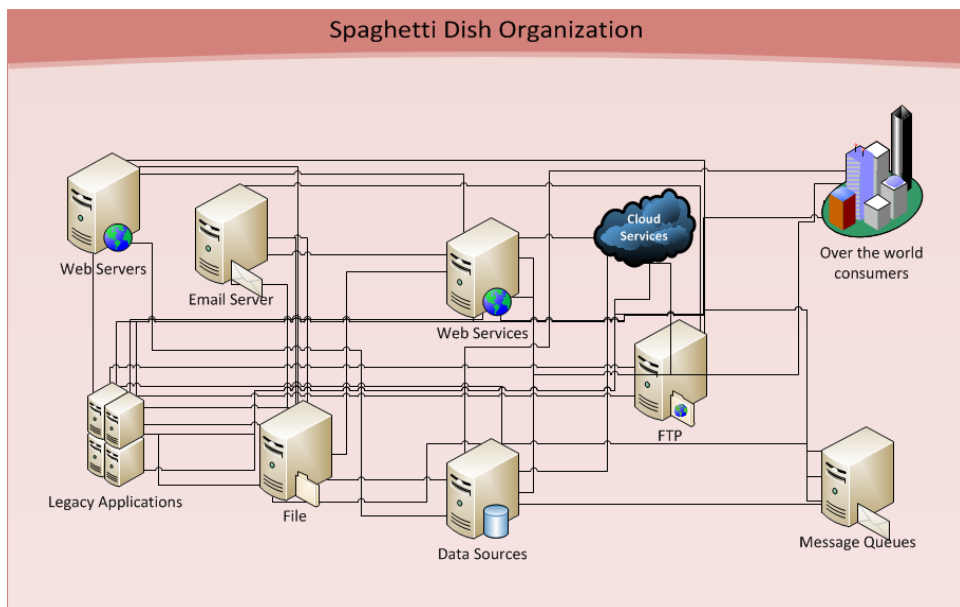
Soap Structure

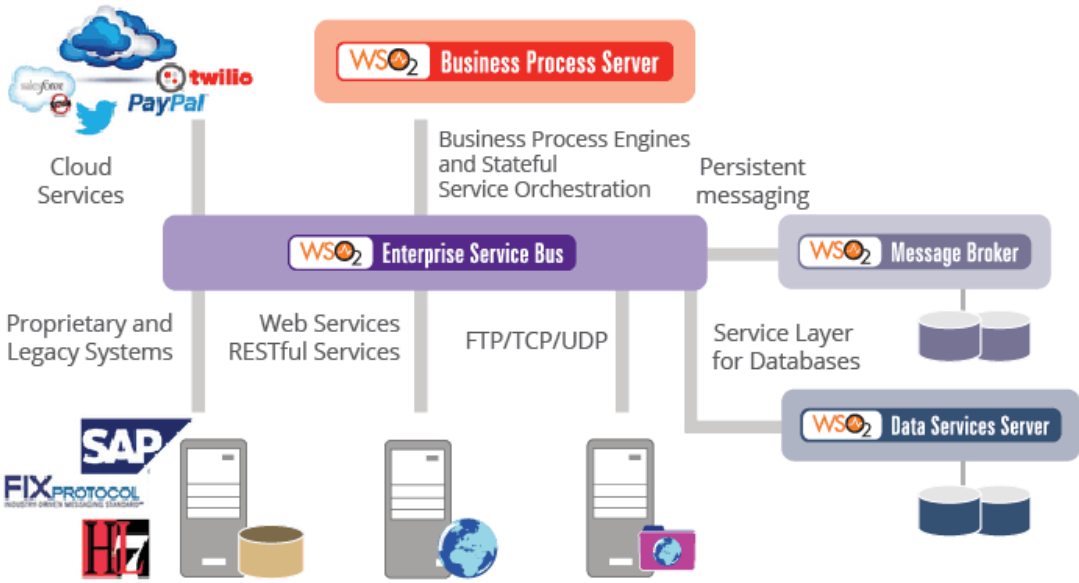
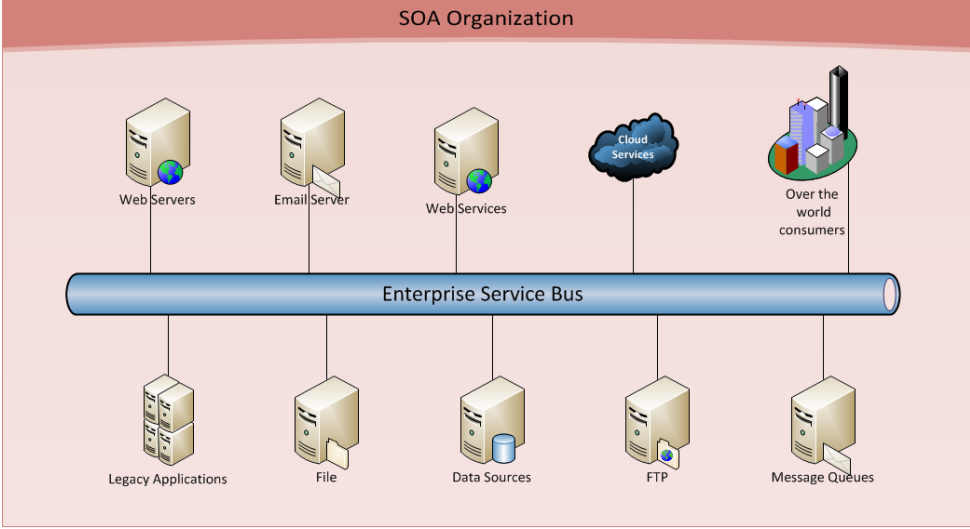
Envelope

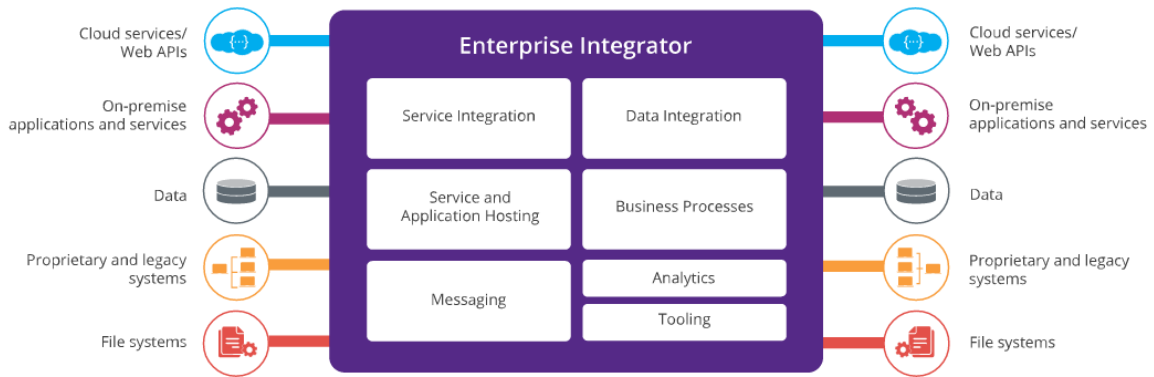
Header

Body

Spaghetti Dish Organization







X

WSO2 ENTERPRISE INTEGRATOR

VERSION 6.0.0

Email

Download
Server

Get Updates
 Download

```

INFO - StartupFinalizerServiceComponent Server : WSO2 Enterprise Integrator-6.0.0
INFO - StartupFinalizerServiceComponent WSO2 Carbon started in 88 sec
INFO - CarbonUIServiceComponent Mgt Console URL : https://192.168.0.163:8243/carbon/
  
```



[? Help](#)



User Guide
WSO2 Carbon user guide.



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The interactive message board for sharing information, questions and comments about WSO2 products.



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[? Help](#)

- Home
- Manage
 - Applications
 - List
 - Add
 - Web Applications
 - Services
 - List
 - Add
 - AAR Service
 - Proxy Service
 - Jar Service
 - Spring Service
 - Data Service
 - Generate
 - Create
 - Upload

WSO2 Enterprise Integrator Home

Welcome to the WSO2 Enterprise Integrator Management Console

Server	
Host	192.168.0.163
Server URL	local://services/
Server Start Time	2017-03-01 19:52:35
System Up Time	0 day(s) 0 hr(s) 52 min(s) 19 sec(s)
Version	6.0.0
Repository Location	file://C:/wso2/servers/wso2ei/6066C5~1.0/WSO2EI-1.0/bin/./../repository/deployment/server/

Operating System	
OS Name	Windows 10
OS Version	10.0

WSO2 Enterprise Integrator Management Console
 Signed-in as: admin@carbon.super | [Sign-out](#) | [Docs](#) | [About](#)

Home > Manage > Shutdown/Restart ? Help

Shutdown/Restart Server

Shutdown	
Graceful Shutdown Stop accepting new requests, continue to process already received requests, and then shutdown the server.	Forced Shutdown Discard any requests currently being processed and immediately shutdown the server.
<input checked="" type="radio"/> Graceful Shutdown	<input type="radio"/> Forced Shutdown

Restart	
Graceful Restart Stop accepting new requests, continue to process already received requests, and then restart the server.	Forced Restart Discard any requests currently being processed and immediately restart the server.
<input checked="" type="radio"/> Graceful Restart	<input type="radio"/> Forced Restart

WSO2 Enterprise Integrator Management Console
 Analytics Sign-in | Docs | About

? Help

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WSO2 Enterprise Integrator Analytics Management Console

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Home

Dashboard

Template Manager

Analytics Dashboard

Manage

Batch Analytics

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Streaming Analytics

Execution Plans

Event

Flow

Streams

Receivers

Publishers

Interactive Analytics

Data Explorer

WSO2 Enterprise Integrator Analytics Home

Welcome to the WSO2 Enterprise Integrator Analytics Management Console

Server	
Host	192.168.0.163
Server URL	local://services/
Server Start Time	2017-03-01 21:07:14
System Up Time	0 day(s) 0 hr(s) 5 min(s) 43 sec(s)
Version	6.0.0
Repository Location	file://C:/wso2/servers/wso2ei/6066C5~1.0/WSO2EI~1.0/wso2/ANALYT~1/bin/./../repository/deployment/server/

Operating System	
OS Name	Windows 10
OS Version	10.0

WSO2 Business Process Server Management Console

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Help

User Guide
WSO2 Carbon user guide.

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Home

Manage

Main

- Processes
 - List
 - BPEL
 - BPMN
 - Add
 - BPEL
 - BPMN
- Human Tasks
 - List
 - Add
- Services
 - List
- Carbon Applications
 - List
 - Add

Monitor

Configure


Tools


WSO2 Business Process Server Home


Welcome to the WSO2 Business Process Server Management Console


Server	
Host	localhost
Server URL	local://services/
Server Start Time	2017-03-01 21:22:25
System Up Time	0 day(s) 0 hr(s) 2 min(s) 50 sec(s)
Version	3.6.0
Repository Location	file:/C:/wso2/servers/wso2ei/6066C5-1.0/WSO2EI-1.0/wso2/BUSINE-1/bin/./../repository/deployment/server/

Operating System	
OS Name	Windows 10
OS Version	10.0

 **User Guide**
WSO2 Carbon user guide.

 **Forum**
The interactive message board for sharing information, questions and comments about WSO2 products.

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Users are encouraged to report issues & suggest improvements using the JIRA issue tracker. In addition, users can observe the status of the reported issues in progress.

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[Sign-in Help](#)

The screenshot displays the WSO2 Message Broker Management Console. The top navigation bar includes the WSO2 logo, the text "Message Broker", and the title "Management Console". On the right side of the top bar, it shows the user is signed in as "admin@carbon.super" with links for "Sign-out", "Docs", and "About".

The left sidebar contains a navigation menu with the following sections:

- Home
- Manage
 - Queues
 - List
 - Add
 - Topics
 - List
 - Add
 - Dead Letter Channel
 - List
 - Subscriptions
 - Queue Subscription List
 - Topic Subscription List
 - Cluster Information
 - Node List
 - Shutdown/Restart
 - Registry
- Monitor
- Configure
- Tools

The main content area is titled "WSO2 Message Broker Home" and includes a "Help" link. Below the title, it says "Welcome to the WSO2 Message Broker Management Console".

Two tables provide server and operating system details:

Server	
Host	192.168.0.163
Server URL	local://services/
Server Start Time	2017-03-01 21:27:23
System Up Time	0 day(s) 0 hr(s) 2 min(s) 47 sec(s)
Version	3.1.0
Repository Location	file:/C:/wso2/servers/wso2ei/6066C5~1.0/WSO2EI-1.0/wso2/broker/bin/./repository/deployment/server/

Operating System	
OS Name	Windows 10
OS Version	10.0

Chapter 2: Developing Integration Projects with WSO2EI Tooling

Download Tooling

Already have Eclipse Mars?

**Install from
P2 Repository**

Full Distribution

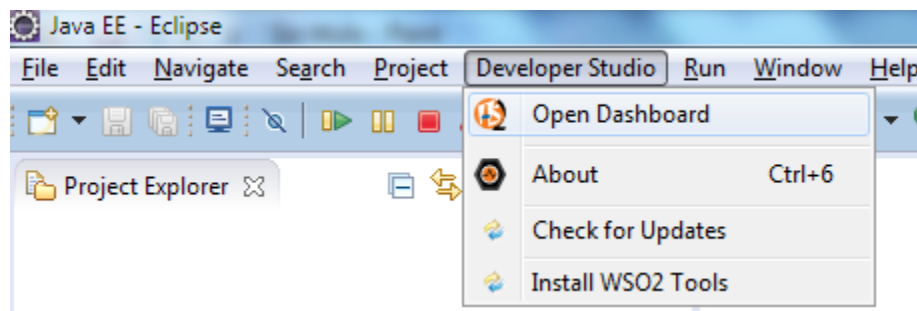
for MacOS

for Linux 32-bit

for Linux 64-bit









for Windows 32-bit

for Windows 64-bit





▼ Create



Integration Project









-  [ESB Config Project](#)
-  [Connector Exporter Project](#)
-  [Integration Project](#)
-  [Sequence](#)
-  [REST API](#)
-  [Mediator Project](#)
-  [Inbound Endpoint](#)
-  [Message Store](#)

Repository

-  [Switch to registry perspective](#)
-  [Registry Resource](#)

Data Services Server

-  [Data Service Project](#)
-  [Data Services Validator Project](#)

-  [ESB Solution Project](#)
-  [Proxy Service](#)
-  [Endpoint](#)
-  [Local Entry](#)
-  [Template](#)
-  [Scheduled Task](#)
-  [Message Processor](#)
-  [Synapse Configuration](#)

-  [Registry Resources Project](#)

-  [Data Service](#)

▼ Distribution

-  [Composite Application Project](#)

▼ Add Server

-  [Server](#)

▼ Maven

-  [Maven Multi Module Project](#)



▼ Create

Integration Project

-  [ESB Config Project](#)
-  [Connector Exporter Project](#)
-  [Integration Project](#)



New ESB Project

Create new ESB Project



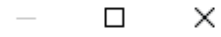
- New ESB Config Project
- Point To Existing Synapse-configs Folder

< Back

Next >

Finish

Cancel



New ESB Config Project

Create new ESB Config Project



Project Name

Location

Use Default Location

Location

Working Sets

Add project to working sets

Working Sets

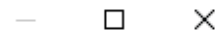


< Back

Next >

Finish

Cancel



Maven Information

Maven information for the project



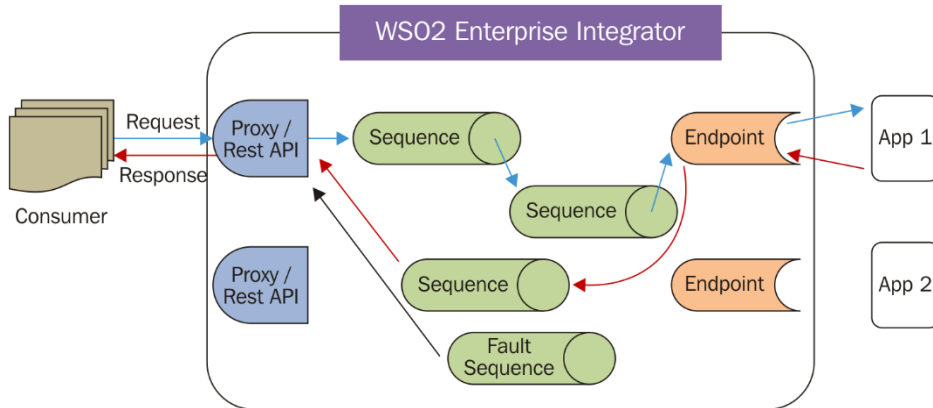
Maven Project	
Group Id	<input type="text" value="com.My1stESBProject"/>
Artifact Id	<input type="text" value="My1stESBProject"/>
Version	<input type="text" value="1.0.0"/>
<input type="checkbox"/> Specify Parent from Workspace	<input type="text" value=""/>
Parent Group Id	<input type="text" value=""/>
Parent Artifact Id	<input type="text" value=""/>
Parent Version	<input type="text" value=""/>
Relative-path	<input type="text" value=""/>



< Back Next > **Finish** Cancel

Project Explorer

- My1stESBProject
 - src
 - pom.xml



Developer Studio Dashboard

WSO2 Developer Studio

▼ Create

Integration Project

- [ESB Config Project](#)
- [ESB Solution Project](#)
- [Connector Exporter Project](#)
- [Proxy Service](#)

Proxy Service Artifact Creation Options

Select how you would like to create your new proxy service



- Create A New Proxy Service
- Import Proxy Service

< Back

Next >

Finish

Cancel

Proxy Service

Create a new Proxy Service



Proxy Service Name

Proxy Service Type

Save proxy service in:

[Create new ESB Project...](#)

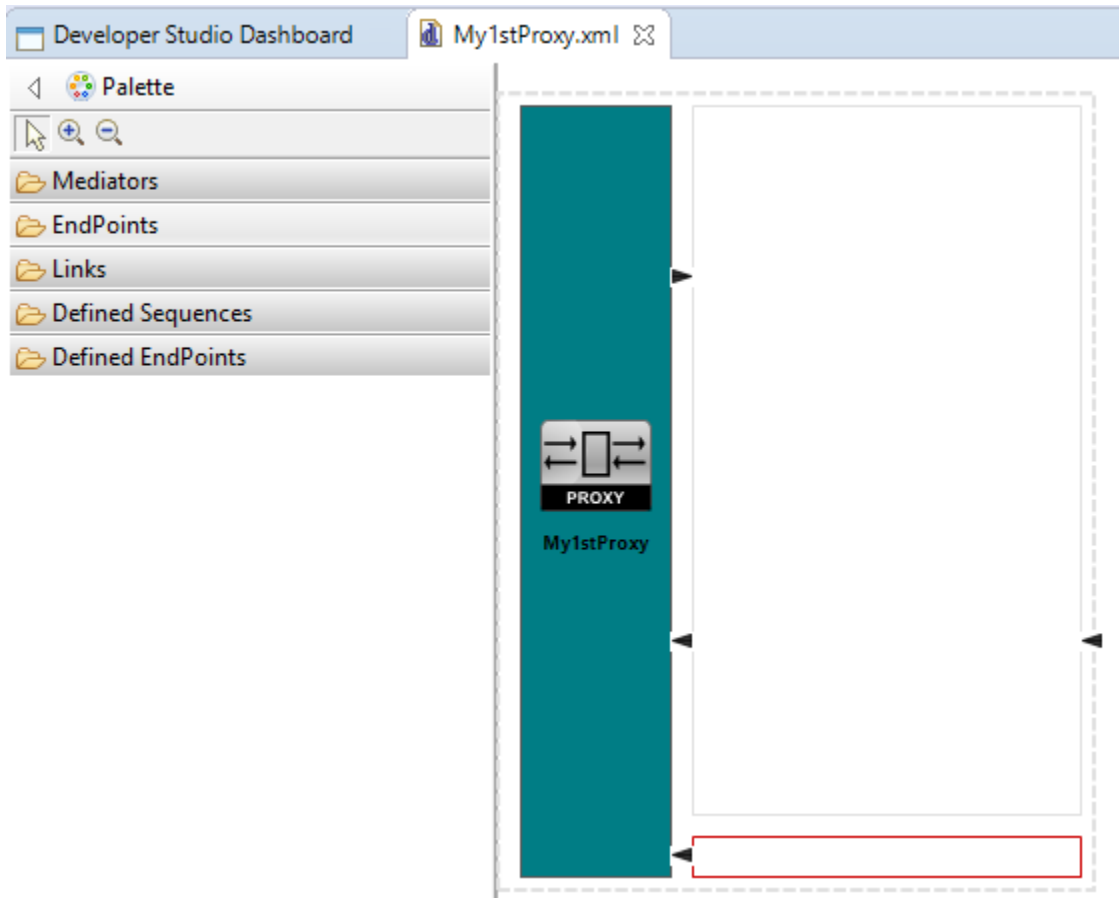
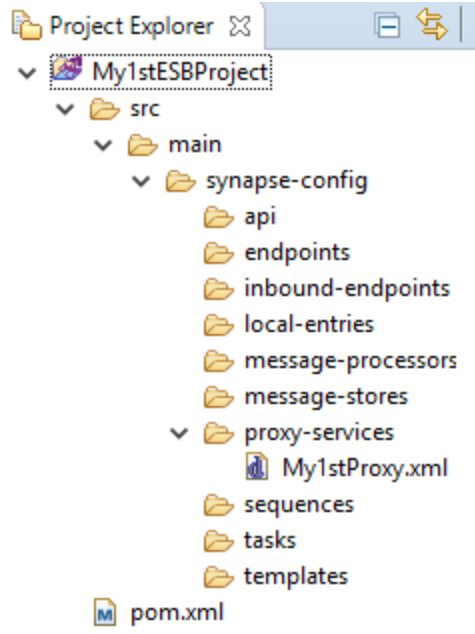
▼ **Advanced Configuration**

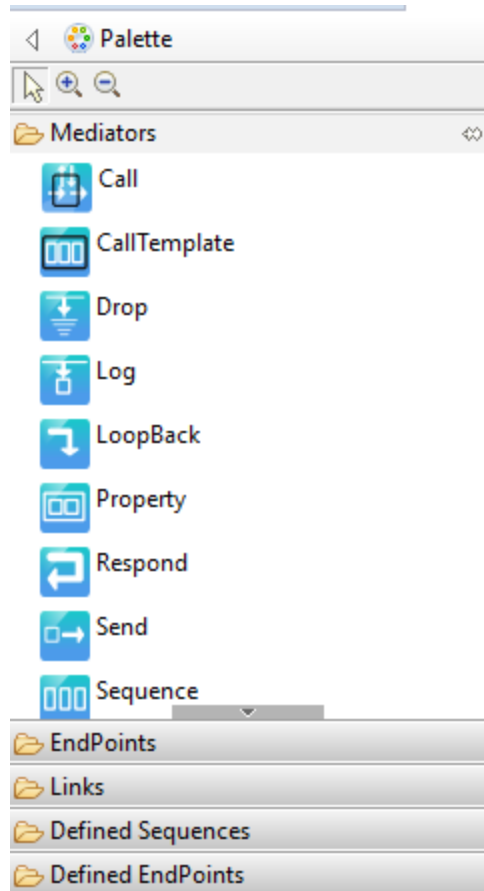
Proxy Service Type

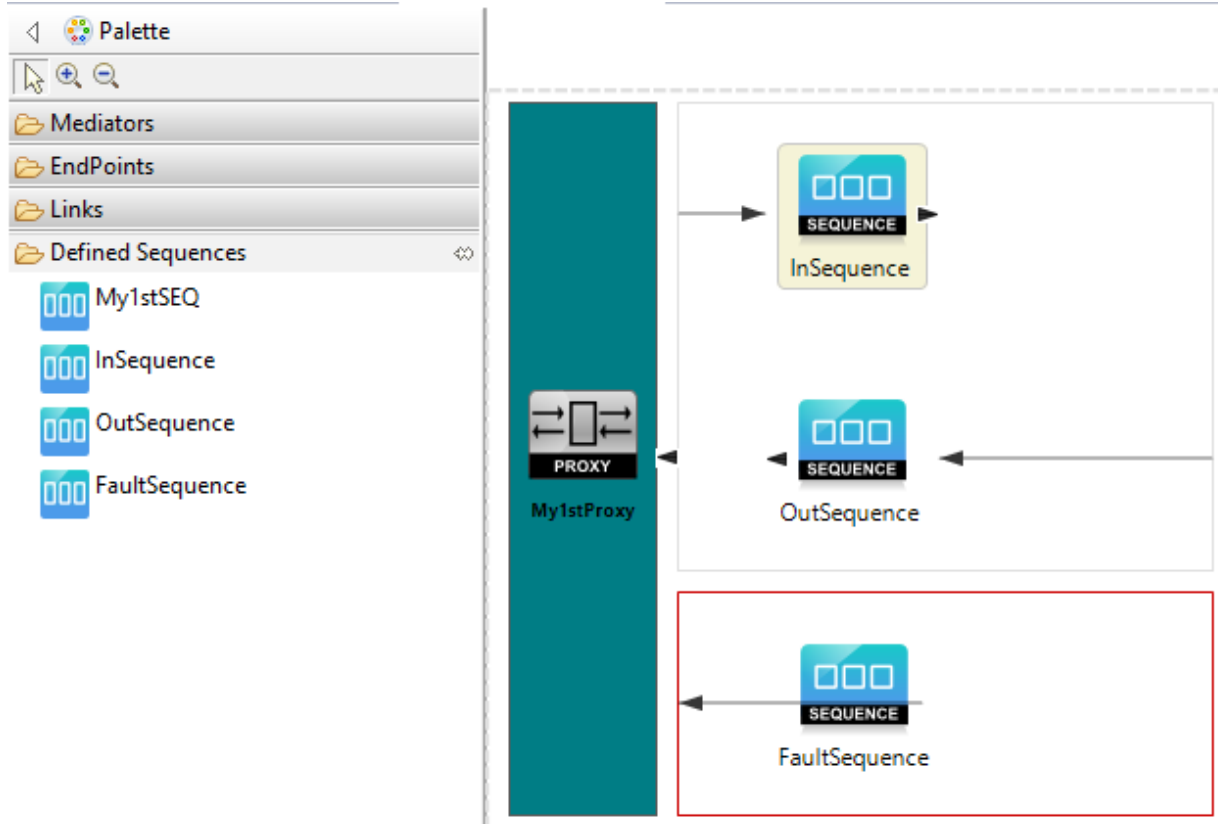
Save proxy service in:

▼ **Advanced Configu**

- Pass Through Proxy
- Custom Proxy**
- Transformer Proxy
- Log Forward Proxy
- WSDL Based Proxy
- Secure Proxy







*My1stProxy.xml

Palette

- Mediators
- EndPoints
- Links
- Defined Sequences
- Defined EndPoints

```
*My1stProxy.xml
1 <?xml version="1.0" encoding="UTF-8"?>
2 <proxy name="My1stProxy" startOnLoad="true"
3   <target>
4     <inSequence>
5       <sequence key="InSequence"/>
6     </inSequence>
7     <outSequence>
8       <sequence key="OutSequence"/>
9     </outSequence>
10    <faultSequence>
11      <sequence key="FaultSequence"/>
12    </faultSequence>
13  </target>
14 </proxy>
15
```

Design Source

New Synapse API

API Artifact Creation Options

Select how you would like to create your API artifact

Create A New API Artifact

Import API Artifact

< Back Next > Finish Cancel

Synapse API Artifact

Create a new Synapse API Artifact

Name*

Context*

Hostname

Port

Save location:

[Create a new ESB project...](#)

Synapse API Artifact

Create a new Synapse API Artifact

Name*	<input type="text" value="my1stapi"/>
Context*	<input type="text" value="/my1stapi"/>
Hostname	<input type="text"/>
Port	<input type="text"/>

Save location:

[Create a new ESB project...](#)

< Back Next > **Finish** Cancel

- My1stESBProject
 - src
 - main
 - synapse-config
 - api
 - my1stapi.xml

Palette

- API
- Mediators
- EndPoints
- Links
- Defined Sequences
- Defined EndPoints

Resource

Design Source

The image shows a software interface with a 'Palette' on the left containing folders for 'API', 'Mediators', 'EndPoints', 'Links', 'Defined Sequences', and 'Defined EndPoints'. The main workspace contains a teal vertical bar on the left with a 'Resource' icon (a green diamond with a gear and a bracket) and the text 'Resource'. To the right of this bar is a large dashed white box. Three black arrows point from the teal bar towards the dashed box: one at the top, one at the bottom, and one on the right side. At the bottom of the workspace, there are two tabs: 'Design' and 'Source', with 'Design' being the active tab.

Sequence Artifact Creation Options

Select how you would like to create your new sequence artifact



- Create New Sequence
- Import Sequence

< Back

Next >

Finish

Cancel

New Sequence Artifact

Sequence Artifact

Create a new Sequence Artifact

Sequence Name:

Save Sequence in:

[Create new Project...](#)

Advanced Configuration

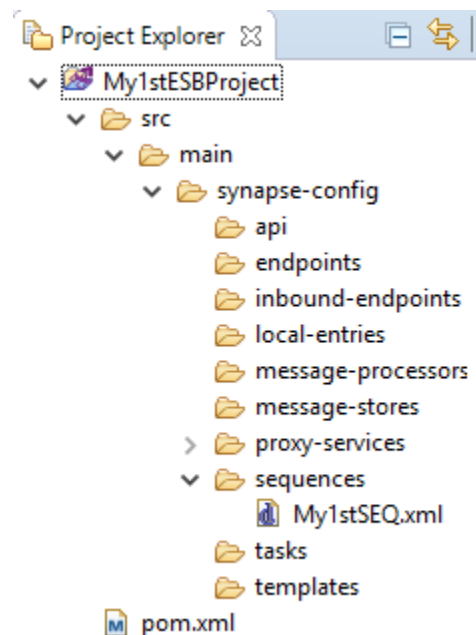
On Error Sequence:

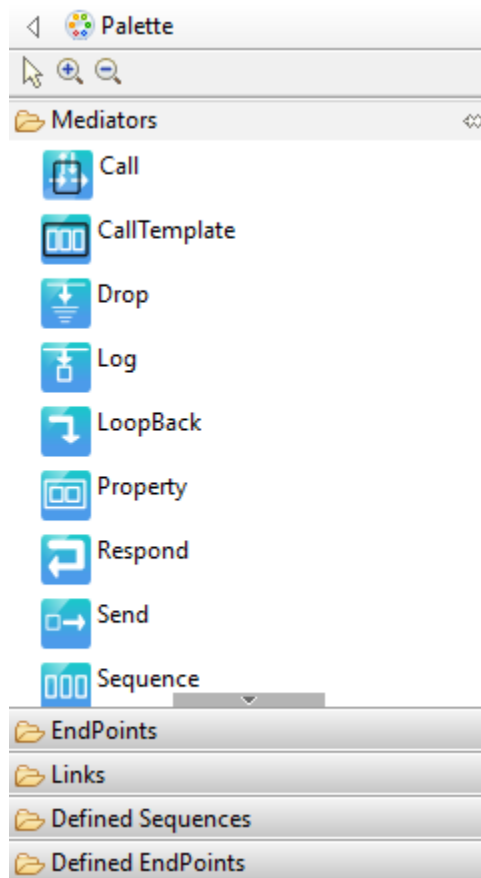
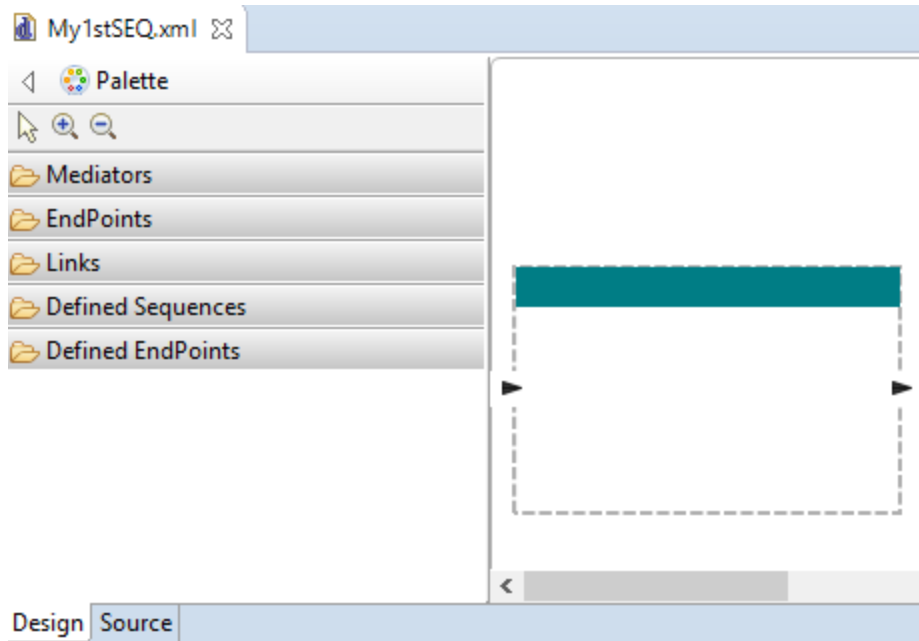
Available Endpoints:

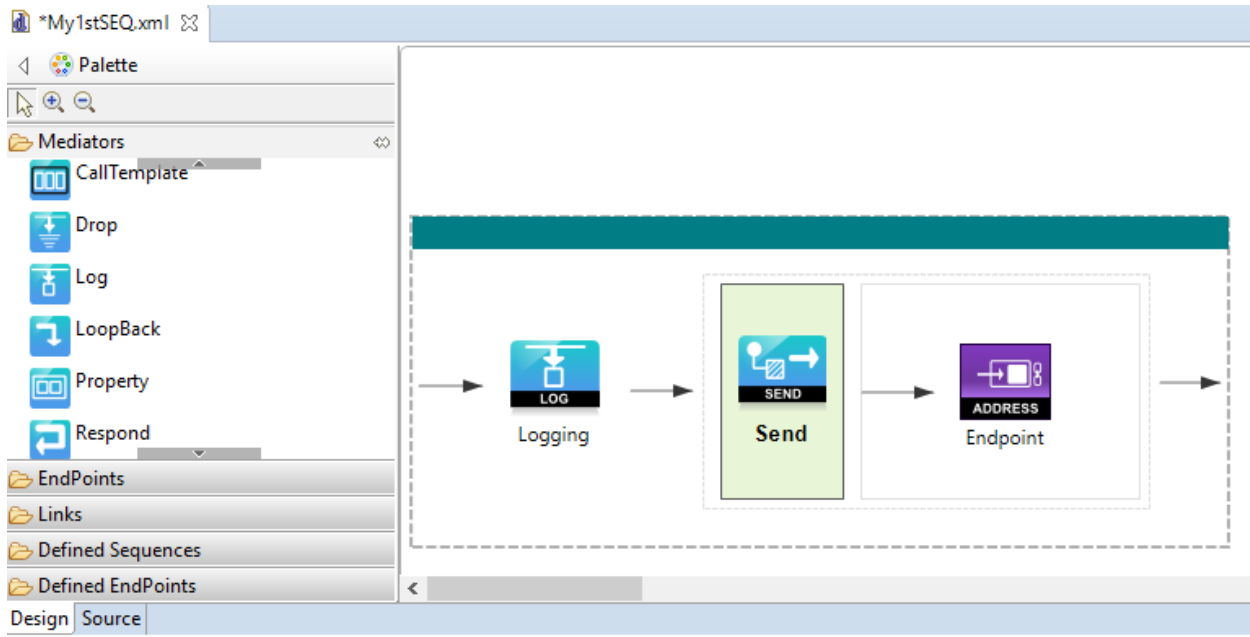
Make this as Dynamic Sequence

Registry:

Registry Path:







*My1stSEQ.xml

```

1 |<?xml version="1.0" encoding="UTF-8"?>
2 |<sequence name="My1stSEQ" trace="disable" xmlns="http://ws.apache.org/ns/synapse">
3 |   <log description="Logging"/>
4 |   <send>
5 |     <endpoint>
6 |       <address uri="http://www.example.org/service"/>
7 |       <description>Endpoint</description>
8 |     </endpoint>
9 |   </send>
10| </sequence>
11|

```

Design Source

Endpoint Artifact Creation Options

Select how you would like to create your new endpoint artifact



- Create A New Endpoint
- Import Endpoint

< Back

Next >

Finish

Cancel

New Endpoint Artifact

Endpoint Artifact

Create a new Endpoint Artifact

Endpoint Name:

Endpoint Type:

▼ Endpoint Configuration

Address:

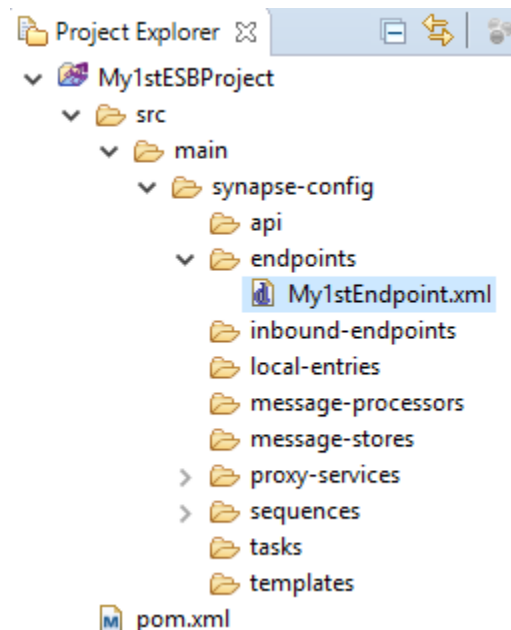
Static Endpoint (Save in an ESB Project)

Dynamic Endpoint (Save in a Registry Resources Project)

Save endpoint in:

[Create new Project...](#)

< Back Next > Finish Cancel



Developer Studio Dashboard *My1stEndpoint.xml

Address Endpoint

Basic Properties

Name : My1stEndpoint

Format : LEAVE_AS_IS

Trace Enabled : False

Statistics Enabled : False

Miscellaneous Properties

URI : http://localhost:8080/dommyEndpoint

Optimize : LEAVE_AS_IS

Description :

Properties :

Form Source

Developer Studio Dashboard *My1stEndpoint.xml

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <endpoint name="My1stEndpoint" xmlns="http://ws.apache.org/ns/synapse">
3     <address uri="http://localhost:8080/dommyEndpoint"/>
4 </endpoint>
5
```

Form Source



New Registry Resource

Create new Registry Resource



Project Name

Location

Use Default Location

Location

Working Sets

Add project to working sets

Working Sets

< Back

Next >

Finish

Cancel



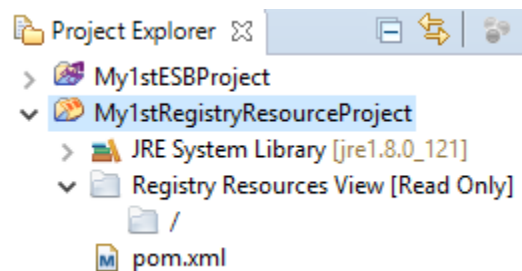
Maven Information

Maven information for the project



Maven Project	
Group Id	<input type="text" value="com.My1stRegistryResourceProject"/>
Artifact Id	<input type="text" value="My1stRegistryResourceProject"/>
Version	<input type="text" value="1.0.0"/>
<input type="checkbox"/> Specify Parent from Workspace	<input type="text"/>
Parent Group Id	<input type="text"/>
Parent Artifact Id	<input type="text"/>
Parent Version	<input type="text"/>
Relative-path	<input type="text"/>

< Back Next > **Finish** Cancel



Registry Resource Artifact Creation Options

Select how you would like to create your new registry resource



- From existing template
- Import from file system
- Import Registry dump file from file system
- Check-out from registry

< Back

Next >

Finish

Cancel

Registry Resource

Create a new Registry Resource



Resource Name

Artifact Name

Template

Registry

Registry path

Save resource in

[Create new Project...](#)

Working Sets

Add project to working sets

Working Sets

< Back

Next >

Finish

Cancel

- My1stRegistryResourceProject
 - JRE System Library [jre1.8.0_121]
 - Registry Resources View [Read Only]
 - /
 - _system
 - config
 - XSL
 - My1stRegistryResource.xsl
 - My1stRegistryResource.xsl [3/12/2017, 10:48 AM]
 - pom.xml

Registry Resource

Create a Registry Resource using a resource file



From File

Artifact Name

Copy content only

Registry

Registry path to deploy

Save resource in:

[Create new Project...](#)

Working Sets

Add project to working sets

Working Sets

< Back Next > **Finish** Cancel

- My1stRegistryResourceProject
 - JRE System Library [jre1.8.0_121]
 - Registry Resources View [Read Only]
 - /
 - _system
 - config
 - XSL
 - My1stRegistryResource.xml
 - XSLTransformation.xml
 - My1stRegistryResource.xml [3/12/2017, 10:48 AM]
 - pom.xml
 - XSLTransformation.xml [3/12/2017, 11:05 AM]

Data Services Project

Create a new DataService Project



Project Name

Location

Use Default Location

Location

Working Sets

Add project to working sets

Working Sets

Maven Information

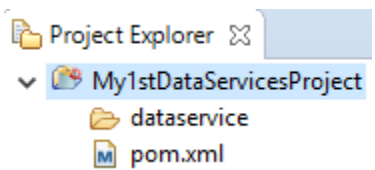
Maven information for the project



Maven Project

Group Id	<input type="text" value="com.My1stDataServicesProject"/>
Artifact Id	<input type="text" value="My1stDataServicesProject"/>
Version	<input type="text" value="1.0.0"/>
<input type="checkbox"/> Specify Parent from Workspace	<input type="text"/>
Parent Group Id	<input type="text"/>
Parent Artifact Id	<input type="text"/>
Parent Version	<input type="text"/>
Relative-path	<input type="text"/>

< Back Next > **Finish** Cancel



Data Service Artifact Creation Options

Select how you would like to create your new dataservice



- Create a New Data Service
- Import a Data Service

Data Service

Create a new Data Service



Data Service Name*

Data Service Group

Data Service Namespace

Description

Save Data Service in:

[Create new DSS Project...](#)

Working Sets

Add project to working sets

Working Sets

< Back

Next >

Finish

Cancel

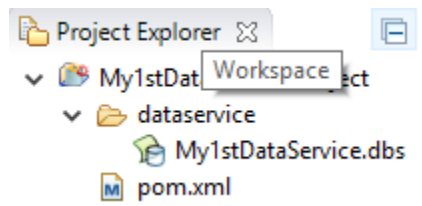
Data Source Wizard

Create New Data Source Configuration



DataSource Id	<input type="text" value="mysql"/>
Data Source Type	<input style="border: none; background-color: #e0e0e0; padding: 2px;" type="text" value="Carbon Data Source"/>
Data Source Name	<input type="text" value="MySQL"/>

< Back Next > **Finish** Cancel





New Composite Application Project

Create new Composite Application Project



Project Name

Dependencies

- > My1stESBProject
- > My1stRegistryResourceProject
- > My1stDataServicesProject

Select All

Deselect All

Location

Use Default Location

Location

Browse

Working Sets

Add project to working sets

Working Sets

Select..

< Back

Next >

Finish

Cancel



Maven Information

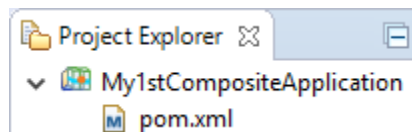
Maven information for the project



Maven Project

Group Id	<input type="text" value="com.My1stCompositeApplication"/>
Artifact Id	<input type="text" value="My1stCompositeApplication"/>
Version	<input type="text" value="1.0.0"/>
<input type="checkbox"/> Specify Parent from Workspace	<input type="text"/>
Parent Group Id	<input type="text"/>
Parent Artifact Id	<input type="text"/>
Parent Version	<input type="text"/>
Relative-path	<input type="text"/>

< Back Next > **Finish** Cancel



Developer Studio Dashboard | My1stCompositeApplication/pom.xml

My1stCompositeApplication

Group Id: com.My1stCompositeApplication
 Artifact Id: My1stCompositeApplication
 Version: 1.0.0
 Description: My1stCompositeApplication

Dependencies

Artifact	Server Role	Version
<input type="checkbox"/> com.My1stESBProject.proxy-service_ My1stProxy	EnterpriseServiceBus	1.0.0
<input type="checkbox"/> com.My1stESBProject.sequence_ FaultSequence	EnterpriseServiceBus	1.0.0
<input type="checkbox"/> com.My1stESBProject.sequence_ InSequence	EnterpriseServiceBus	1.0.0
<input type="checkbox"/> com.My1stESBProject.sequence_ My1stSEQ	EnterpriseServiceBus	1.0.0
<input type="checkbox"/> com.My1stESBProject.sequence_ OutSequence	EnterpriseServiceBus	1.0.0
<input checked="" type="checkbox"/> My1stRegistryResourceProject	--	1.0.0
<input type="checkbox"/> com.My1stRegistryResourceProject.resource_ My1stRegistryResour	GovernanceRegistry	1.0.0
<input type="checkbox"/> com.My1stRegistryResourceProject.resource_ XSLTranformation_xs	GovernanceRegistry	1.0.0

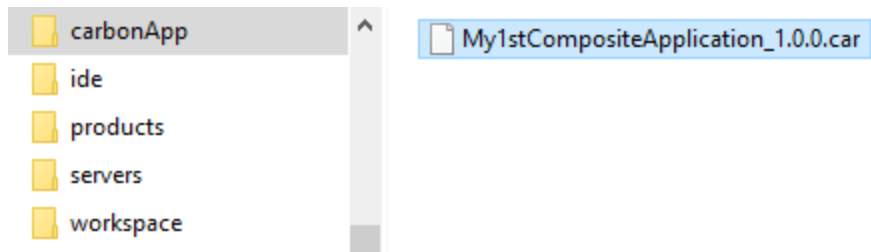
Select All Deselect All

<input checked="" type="checkbox"/>	My1stRegistryResourceProject	--	1.0.0
<input checked="" type="checkbox"/>	com.My1stRegistryResourceProject.resource_ My1stRegistryResour	EnterpriseServiceBus	1.0.0
<input checked="" type="checkbox"/>	com.My1stRegistryResourceProject.resource_ XSLTranformation_xs	EnterpriseServiceBus	1.0.0

Developer Studio Dashboard | My1stCompositeApplication/pom.xml

My1stCompositeApplication

Group Id: com.My1stCompositeApplication
 Artifact Id: My1stCompositeApplication
 Version: 1.0.0
 Description: My1stCompositeApplication



Carbon Applications

- List
- Add

[Home](#) > [Manage](#) > [Carbon Applications](#) > [Add](#)

Add Carbon Applications

Upload Carbon Application

Carbon Application Artifact(.car) My1stComposi...n_1.0.0.car

INFO - ApplicationManager Successfully Deployed Carbon Application : My1stCompositeApplication_1.0.0 {super-tenant}

[Home](#) > [Manage](#) > [Carbon Applications](#) > [List](#)

[Help](#)

Carbon Applications List

1 Running Carbon Applications.

Carbon Applications	Version	Actions
My1stCompositeApplication	1.0.0	Delete Download



ESB Solution Project

Create a new ESB Solution project to create all the required projects



ESB Project Name

Selected projects will be created

Create Registry Resources Project

Project Name

Create Connector Exporter Project

Project Name

Create Composite Application Project

Project Name

Location

Use Default Location

Location

Working Sets

Add project to working sets

Working Sets

< Back

Next >

Finish

Cancel

- ▼ My1stESBSolution
 - > src
 - pom.xml
- ▼ My1stESBSolutionCompositeApplication
 - pom.xml
- ▼ My1stESBSolutionRegistry
 - > JRE System Library [jre1.8.0_121]
 - > Registry Resources View [Read Only]
 - pom.xml

Debug Configurations



Create, manage, and run configurations



+
-
X
🔍
▼

Configure launch settings from this dialog:

- Press the 'New' button to create a configuration of the selected type.
- Press the 'Duplicate' button to copy the selected configuration.
- Press the 'Delete' button to remove the selected configuration.
- Press the 'Filter' button to configure filtering options.
- Edit or view an existing configuration by selecting it.

Configure launch perspective settings from the '[Perspectives](#)' preference page.

Debug Close

type filter text

- Apache Tomcat
- Eclipse Application
- Eclipse Data Tools
- ESB Mediation Debugger
- Generic Server
- Generic Server(External Launch)
- HTTP Preview
- J2EE Preview
- Java Applet
- Java Application
- JUnit
- JUnit Plug-in Test
- ▼ Maven Build
 - My1stESBSolution
- OSGi Framework
- Remote Java Application
- Remote JavaScript
- Rhino JavaScript
- Task Context Test
- XSL

Filter matched 20 of 20 items

Create, manage, and run configurations

Please select command and event ports.



✕

type filter text

- Apache Tomcat
- Eclipse Application
- Eclipse Data Tools
- ▼ ESB Mediation Debugger
 - New_configuration**
- Generic Server
- Generic Server(External Launch)
- HTTP Preview
- J2EE Preview
- Java Applet
- Java Application
- JUnit
- JUnit Plug-in Test
- ▼ m2 Maven Build
 - m2 My1stESBSolution
- OSGi Framework
- Remote Java Application
- Remote JavaScript
- Rhino JavaScript
- Task Context Test
- XSL

Filter matched 21 of 21 items

Name:

Global Common

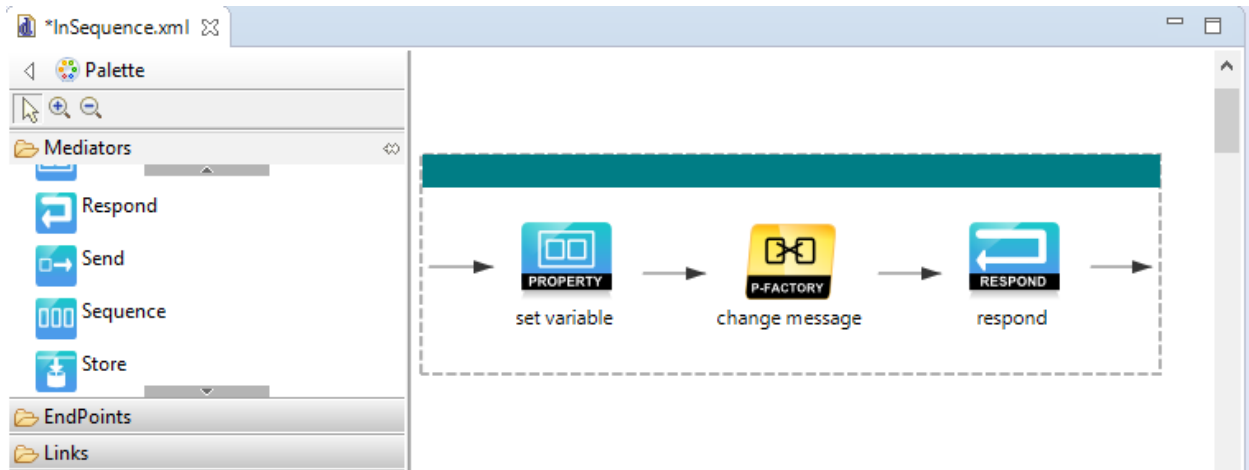
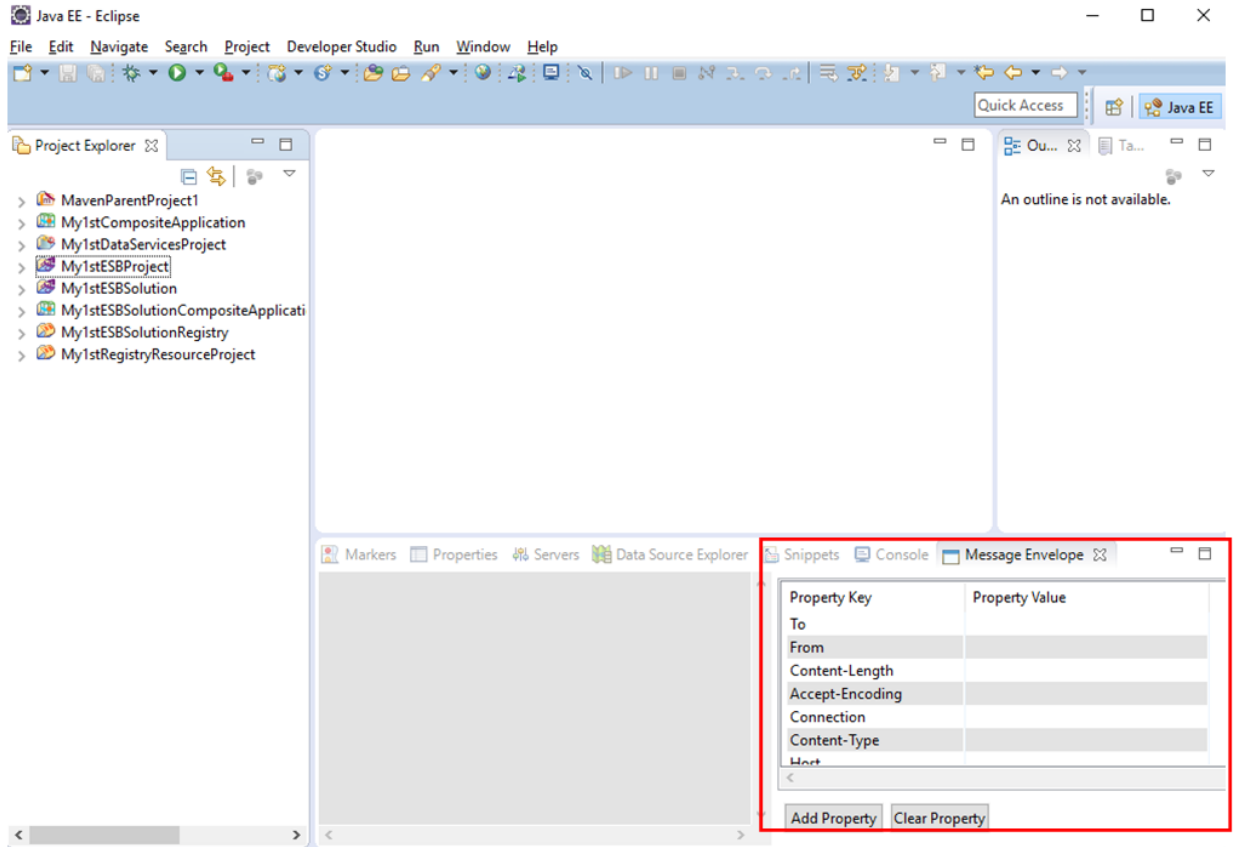
Command Port

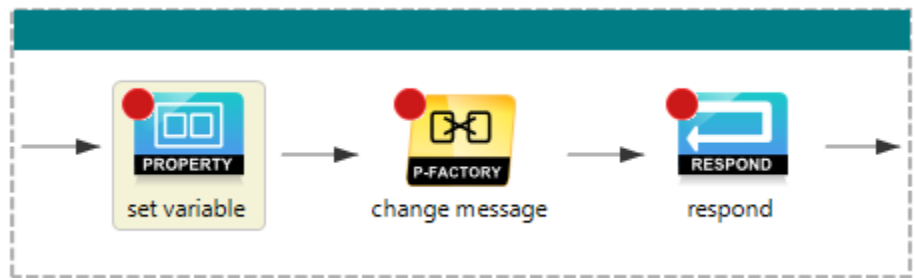
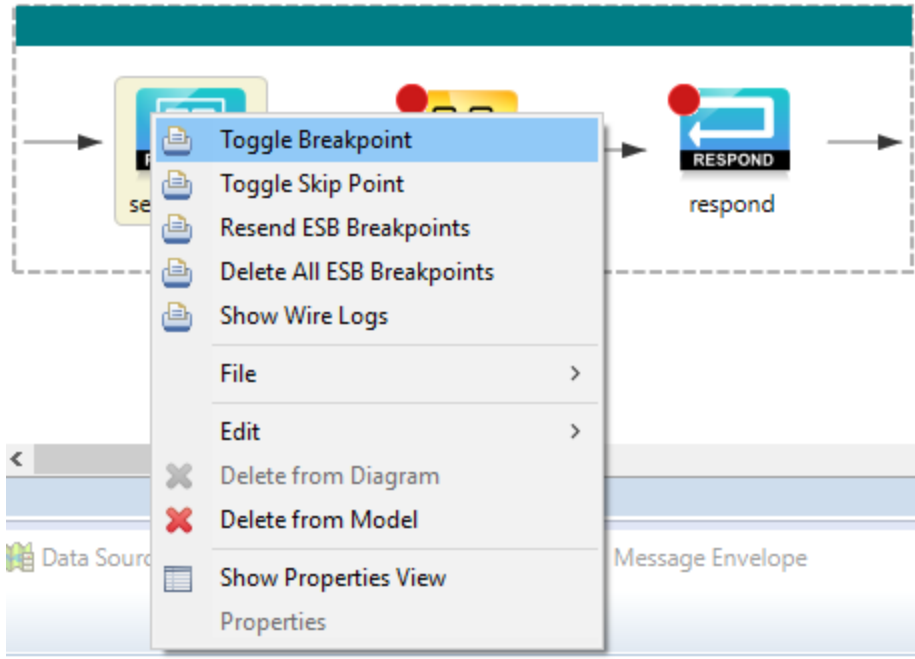
Event Port

Server Host

```

INFO - ServiceBusInitializer Starting ESB...
INFO - ServiceBusInitializer Initializing Apache Synapse...
INFO - ServiceBusInitializer ESB Started in Debug mode for super tenant
INFO - SynapseDebugInterface Listen on ports : Command 9005 - Event 9006
    
```





My1stProxy

- Priority Operations
- All Operations
- mediate

+ Using Endpoint - My1stProxyHttpSoap12Endpoint

Private proxy protocol will be attempted as cross-domain browser restrictions might be enforced for this endpoint. [Hide](#)

Try an alternate [http](#) [Hide](#)

+ mediate

Send Horizontal Vertical

Request

```

1 <body/>
2
3

```

Response

```

1
2
3

```


+ mediate

Send Horizontal Vertical

Request **Response**

1	<body>	1	
2	<message>How are you?</message>	2	
3	</body>	3	
4			

Confirm Perspective Switch ✕

 This kind of launch is configured to open the Debug perspective when it suspends.

This Debug perspective is designed to support application debugging. It incorporates views for displaying the debug stack, variables and breakpoint management.

Do you want to open this perspective now?

Remember my decision

Debug Servers

- WSO2EIDebugging [ESB Mediation Debugger]
 - ESB DebugTarget
 - ESB Debug Thread
 - ESB Debugger Stack Frame

Variables Breakpoints

Name	Value
Message Type	application/soap+xml
ContentType	application/soap+xml; charset=UTF-8; action="urn:med
Axis2-Client Scope Properties	{}
Transport Scope Properties	{"Content-Type":"application/soap+xml; charset=UTF-8;
Session Scope Properties	{"ClientDoingSOAP11":false,"TRANSPORT_IN_NAME":

InSequence.xml

Palette

- Mediators
- EndPoints
- Links
- Defined Sequences
- Defined EndPoints

Design | Source

```

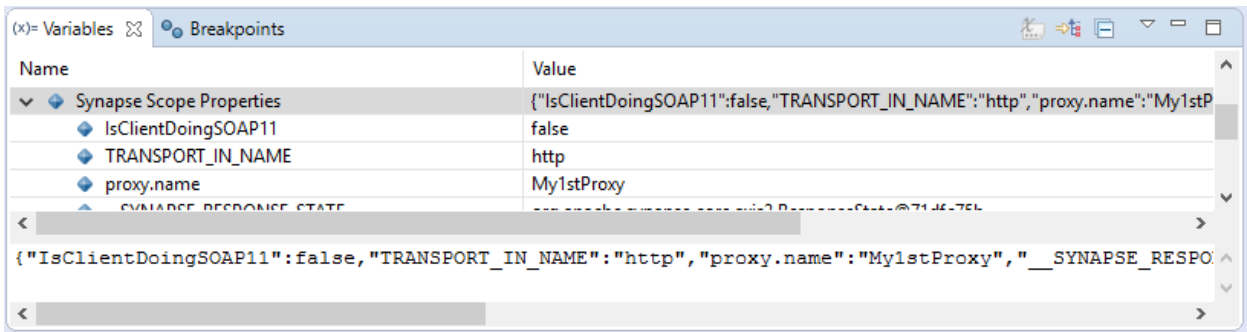
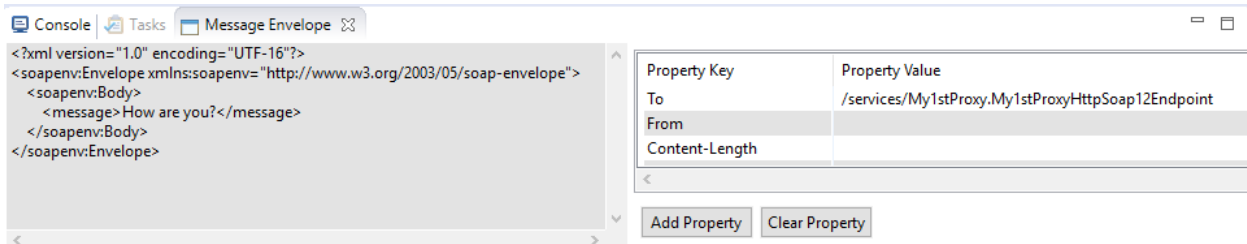
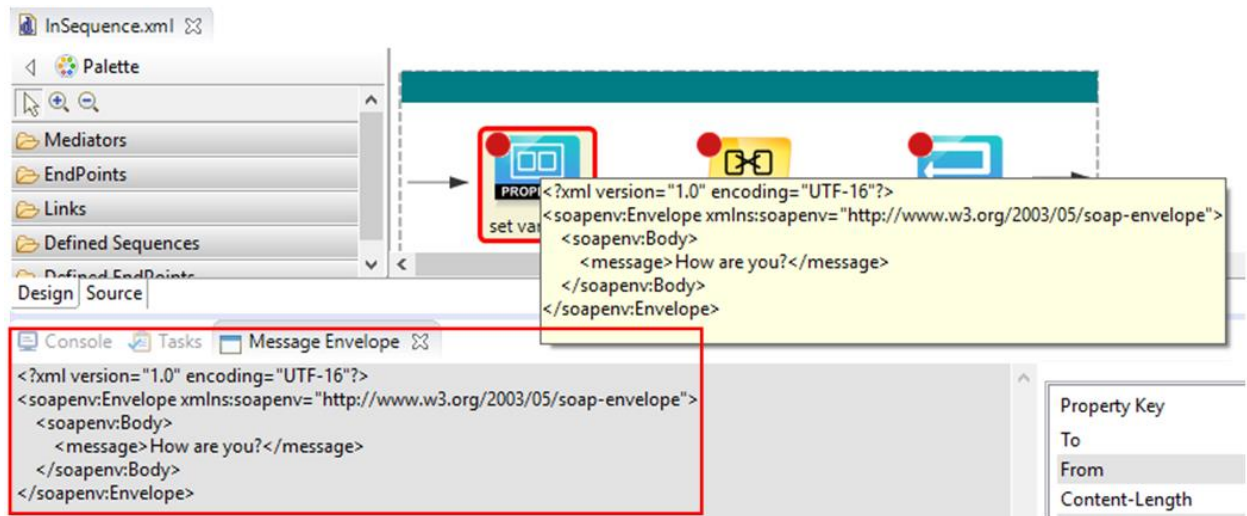
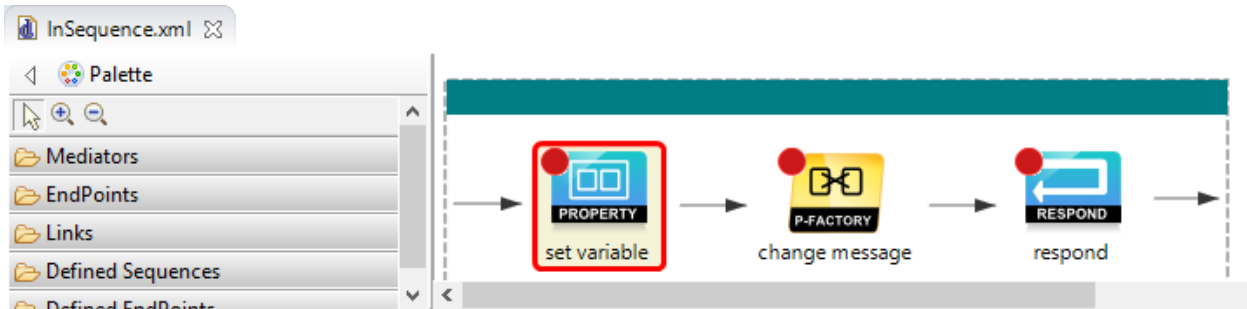
graph LR
    A[PROPERTY set variable] --> B[F-FACTORY change message]
    B --> C[RESPOND respond]
  
```

Console Tasks Message Envelope

```

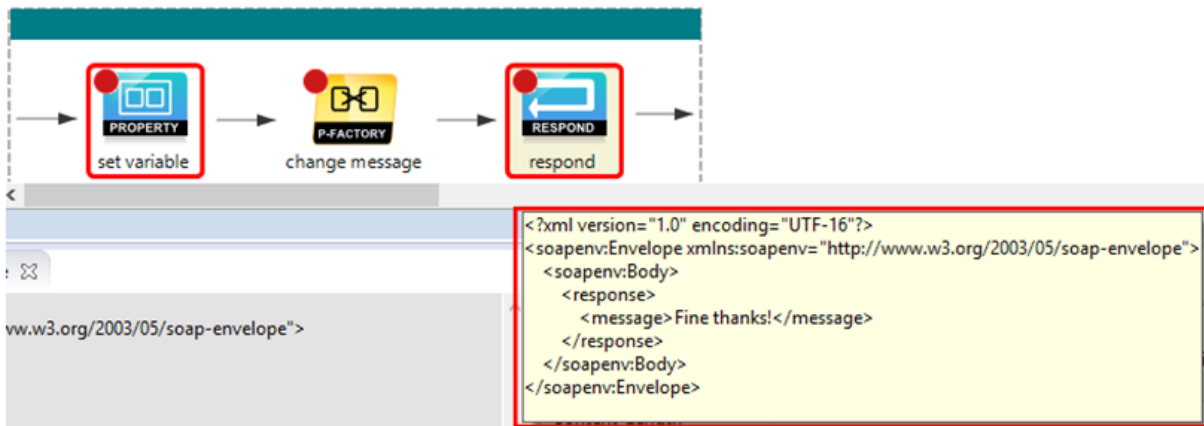
<?xml version="1.0" encoding="UTF-16"?>
<soapenv:Envelope xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope">
  <soapenv:Body>
    <message>How are you?</message>
  </soapenv:Body>
</soapenv:Envelope>
  
```

Property Key	Property Value
To	/services/My1stProxy.My1stProxyHttpSoap12Endpoint
From	
Content-Length	
Accept-Encoding	





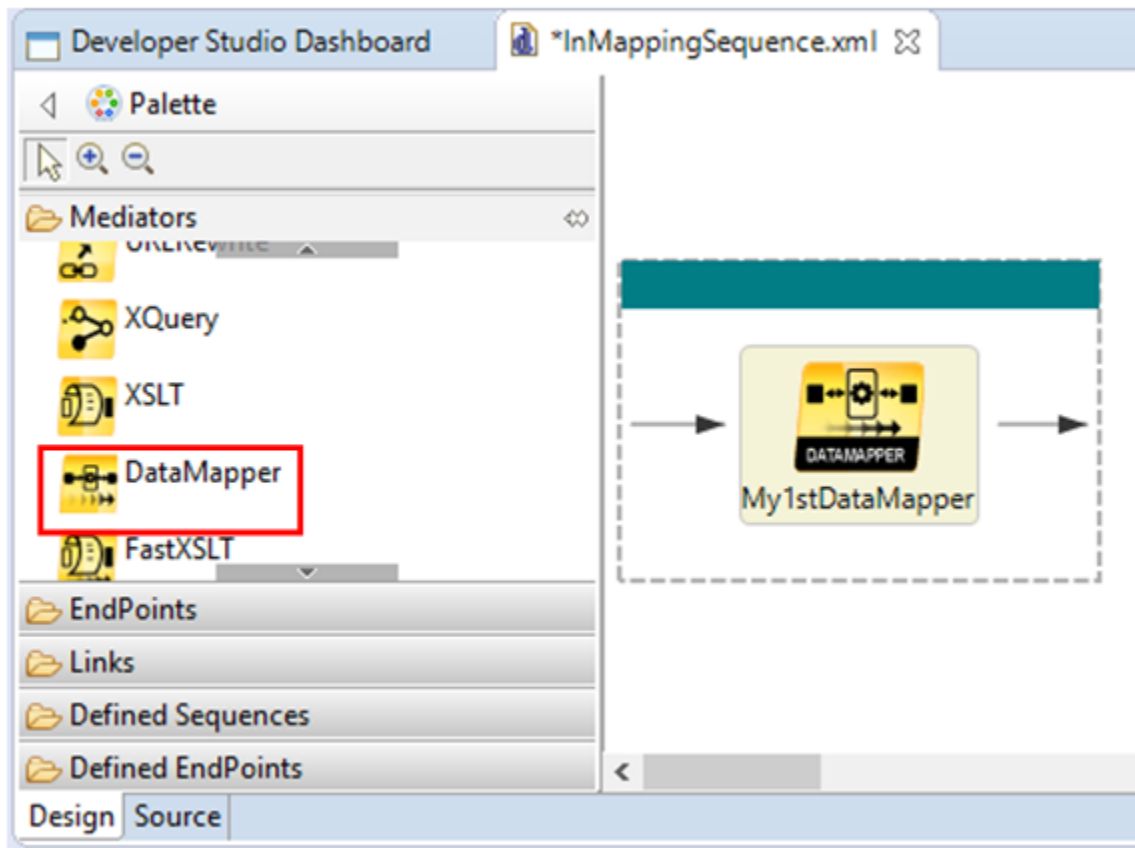
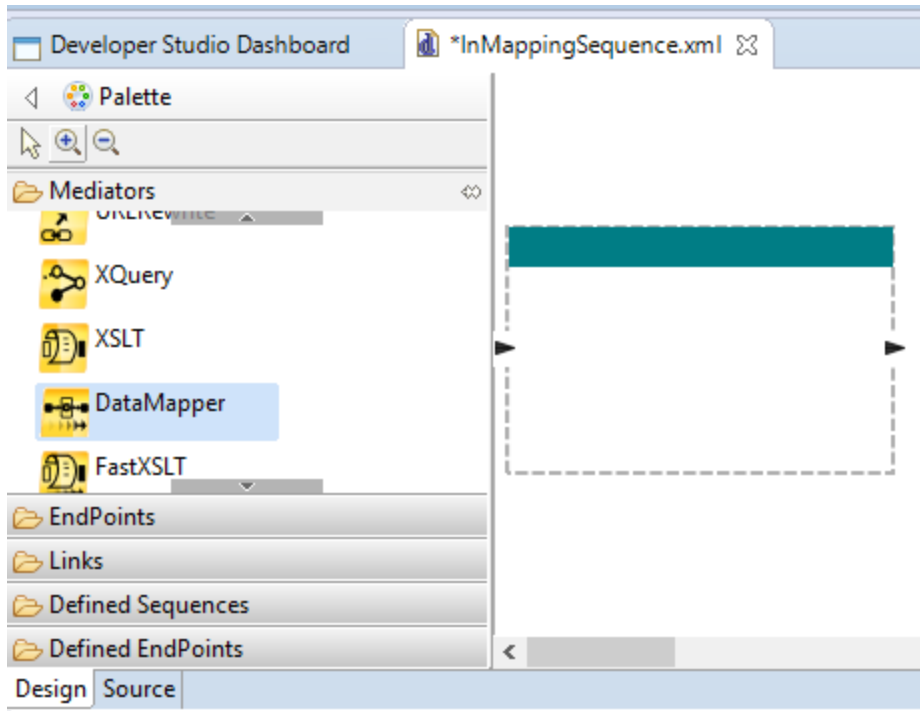
(x)= Variables ☒		Breakpoints	
Name		Value	
proxy.name		My1stProxy	
MyProperty		How are you?	

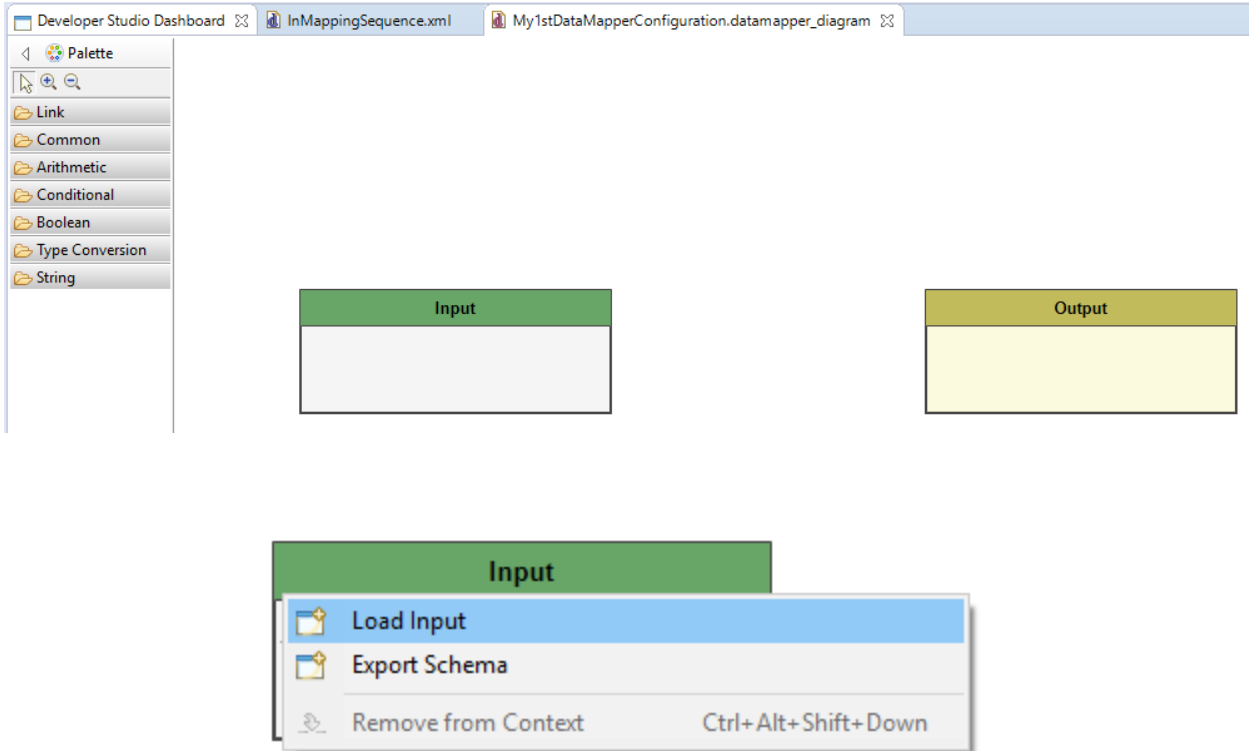
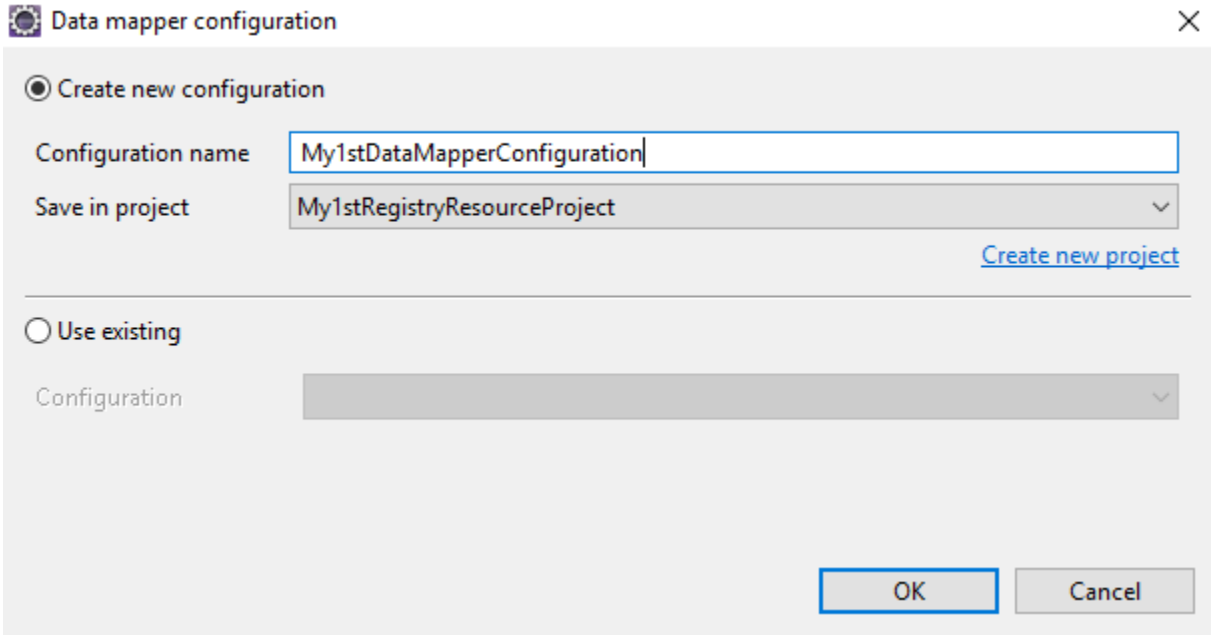


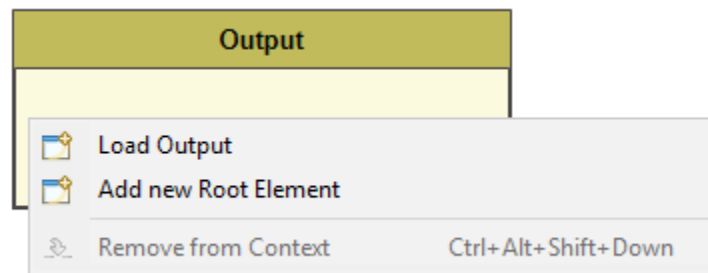
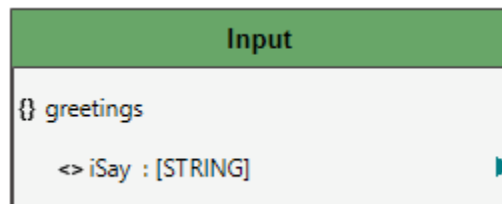
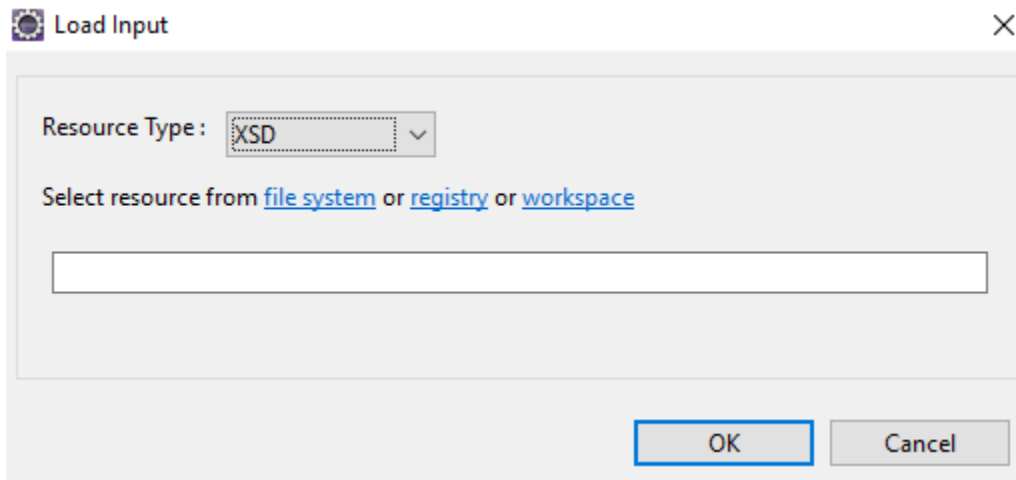
+ mediate

Send Horizontal Vertical

Request	Response
1 <body>	1 <response>
2 <message>How are you?</message>	2 <message>Fine thanks!</message>
3 </body>	3 </response>







Add new Root Element ✕

Name :

Schema Type : ▾

ID :

Is Nullable

Namespaces : ...

Schema Value :

Output
<pre>{ } response</pre>

Output

```
{ response
```

- Delete from Model
- Add new Object
- Add new Array
- Add new Field**
- Add new Attribute
- Edit Object
- Enable Nullable

Remove from Context Ctrl+Alt+Shift+Down

Add new Field ✕

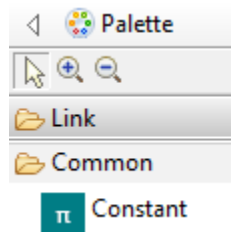
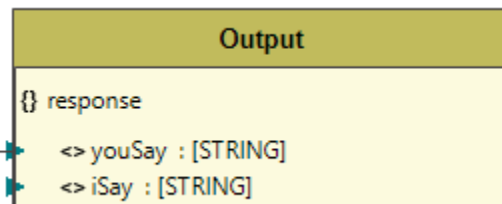
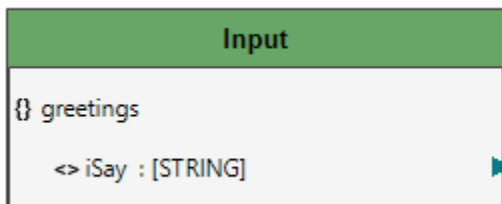
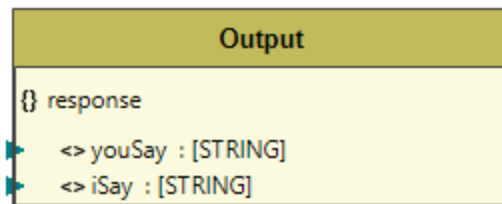
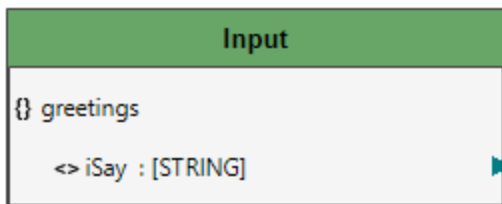
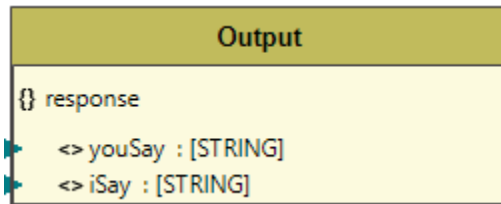
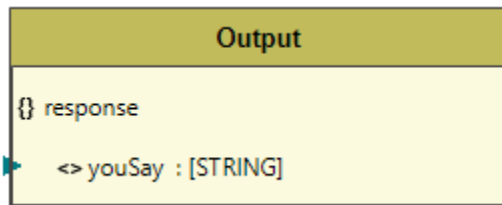
Name :

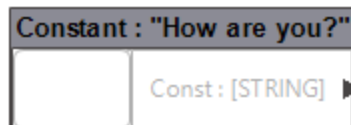
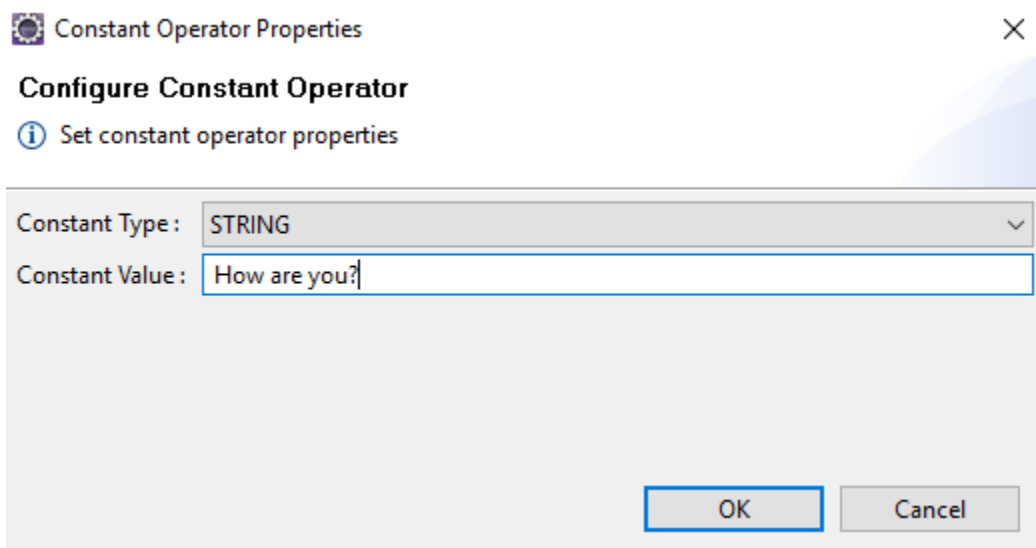
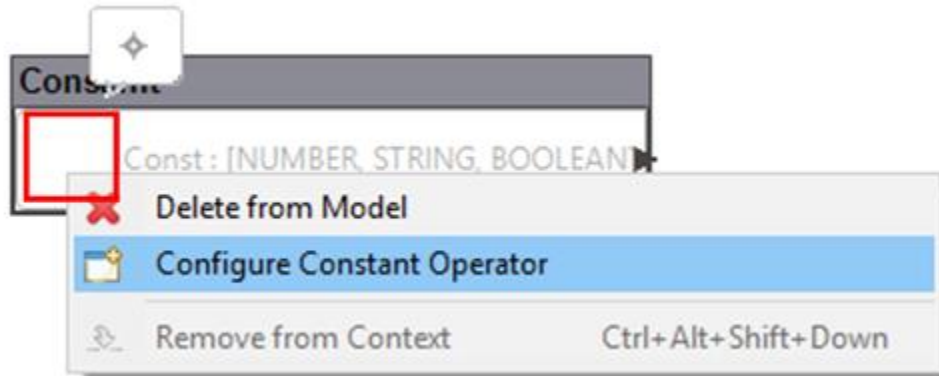
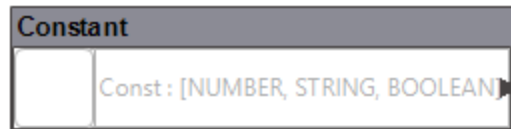
Schema Type : ▾

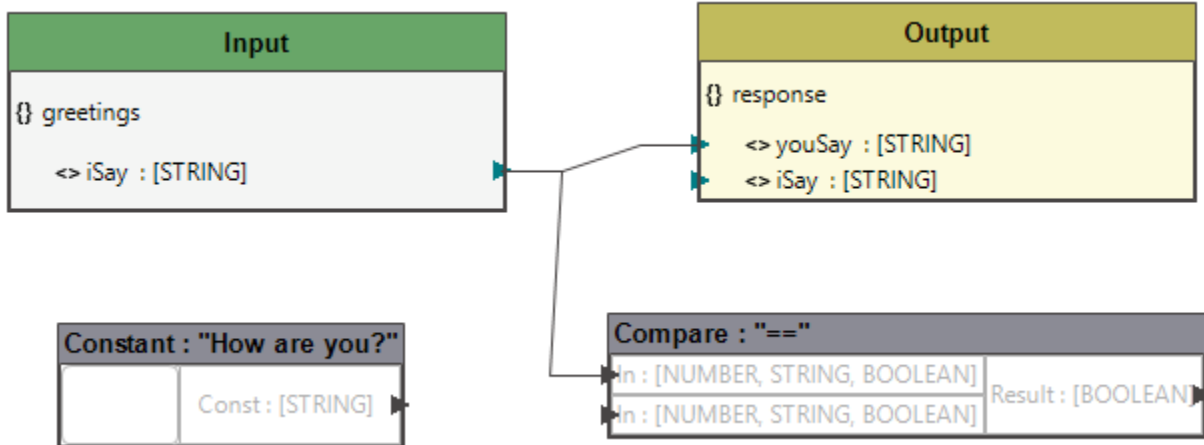
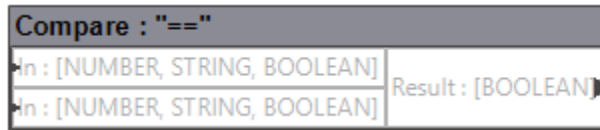
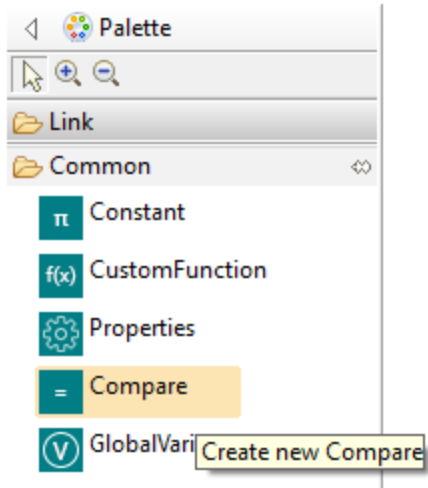
ID :

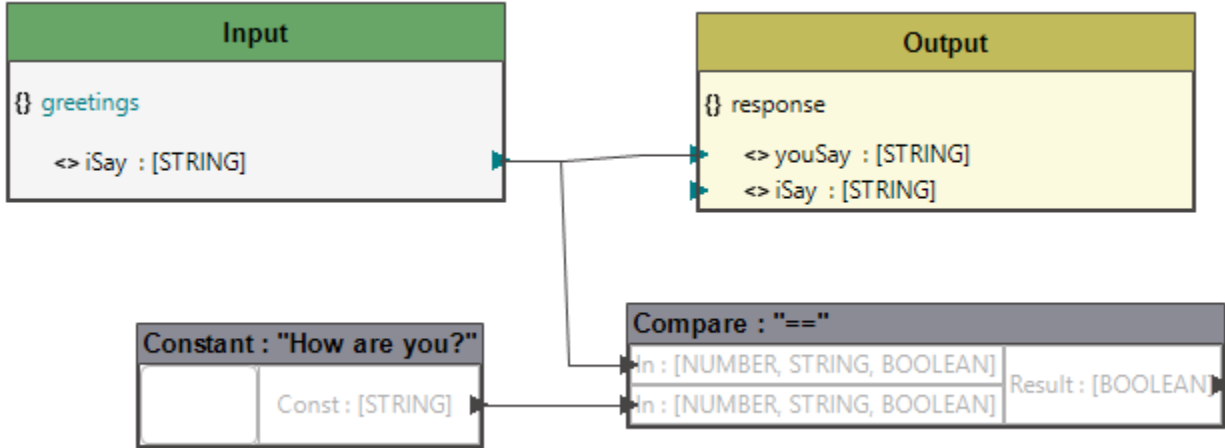
Is Nullable

Namespaces : ...









◀ 🎨 Palette

🔍 + -

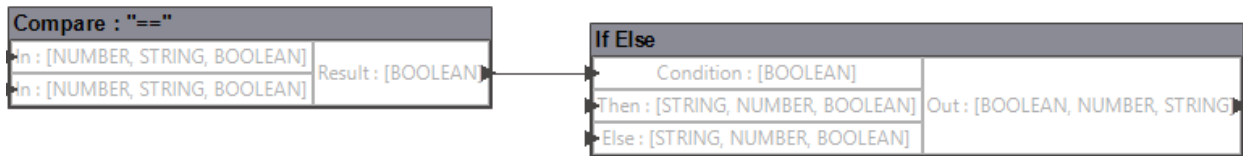
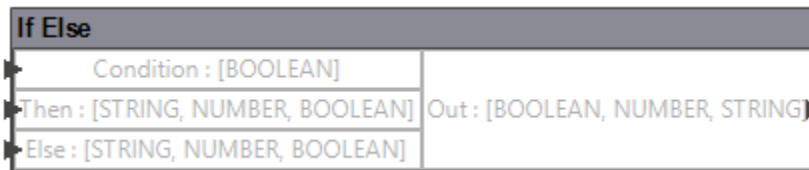
📁 Link

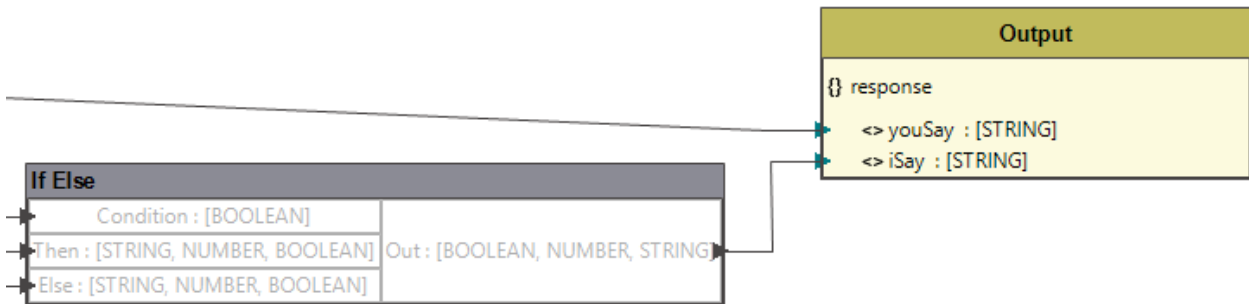
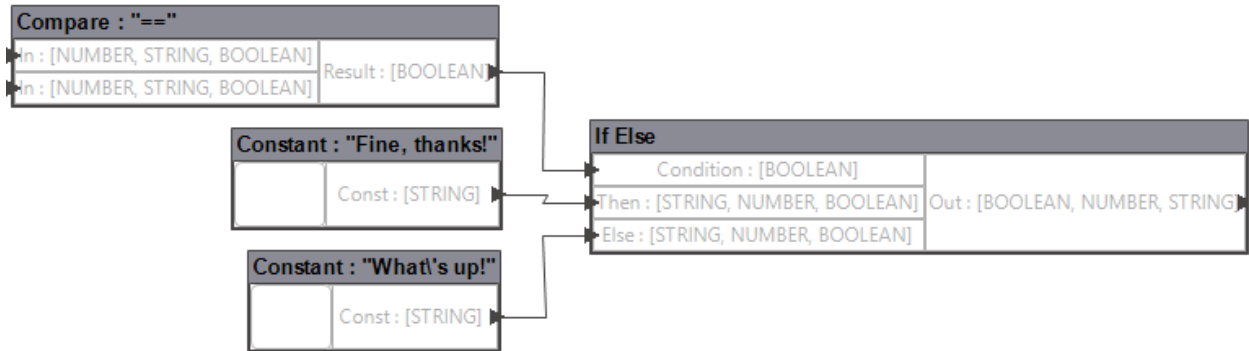
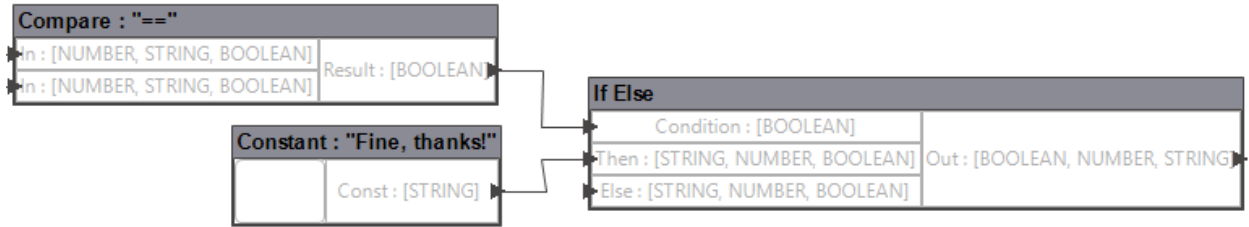
📁 Common

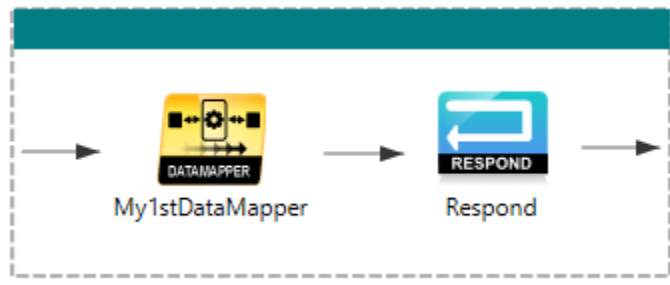
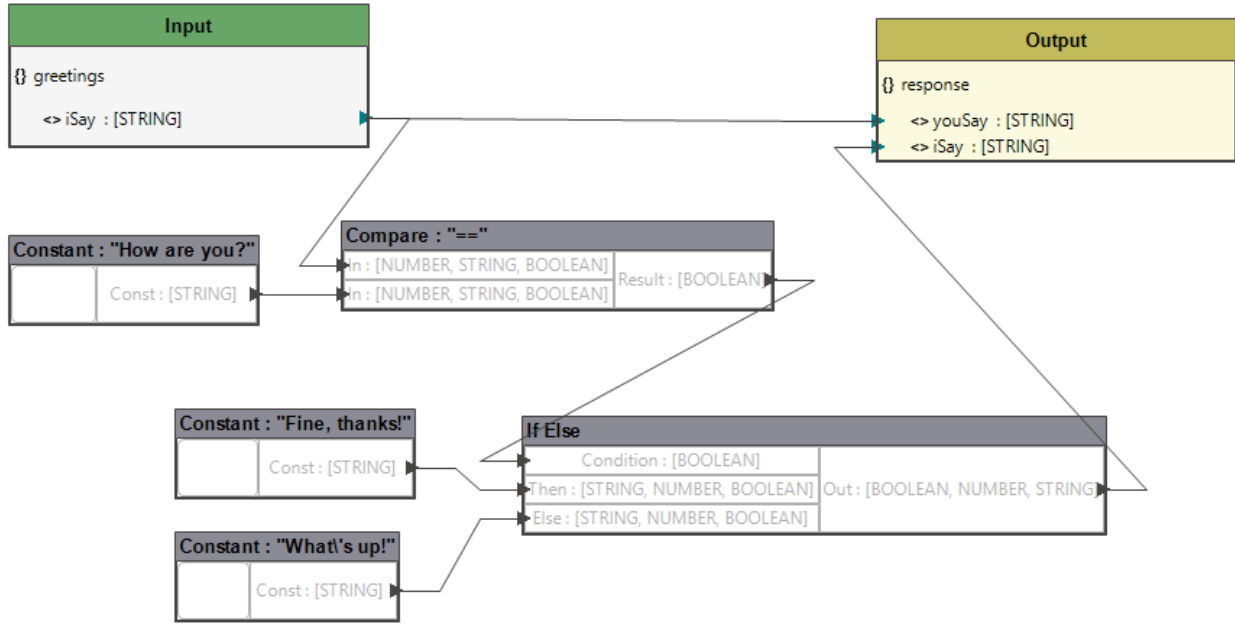
📁 Arithmetic

📁 Conditional

⚙️ ? :: IfElse







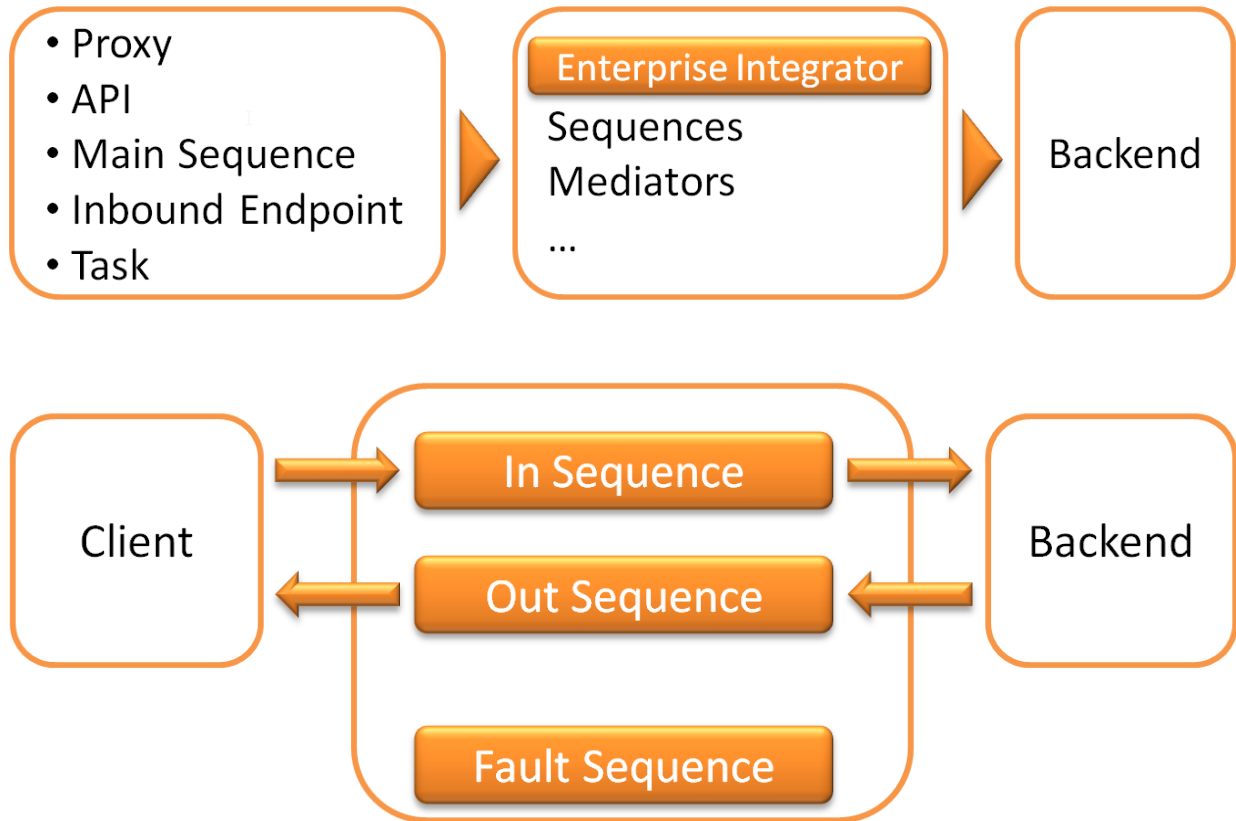
Send Horizontal Vertical

Request	Response
<pre> 1 <body> 2 <greetings> 3 <iSay>How are you?</iSay> 4 </greetings> 5 </body> </pre>	<pre> 1 <response> 2 <youSay>How are you?</youSay> 3 <iSay>Fine, thanks!</iSay> 4 </response> </pre>

Send Horizontal Vertical

Request	Response
<pre> 1 <body> 2 <greetings> 3 <iSay>Hi!!</iSay> 4 </greetings> 5 </body> </pre>	<pre> 1 <response> 2 <youSay>Hi!!</youSay> 3 <iSay>what's up!</iSay> 4 </response> </pre>

Chapter 3: Building Web Services



Transformer Proxy

Create a proxy service which transforms all the incoming requests using XSLT and then forwards them to a given endpoints. If required responses coming back from the backend service can be transformed as well.

Proxy Service Settings

Proxy Service Name*

Target Endpoint* Enter URL Pick from Registry

Target URL*

Request XSLT

Transform Responses

Response XSLT

Publishing WSDL

http

https

local

Secure Proxy

Create a proxy with WS-Security engaged. The service will process WS-Security on incoming requests and forward them to an unsecured backend service.

Proxy Service Settings

Proxy Service Name*

Target Endpoint* Enter URL Pick from Registry

Target URL*

Security Policy* Configuration Registry Governance Registry

Publish WSDL Options

Publishing WSDL

Transports

http

https

local

WSDL Based Proxy

Create a proxy service out of a WSDL of an existing Web Service. Endpoint information is extracted from a remotely hosted WSDL of an actual service.

Proxy Service Settings

Proxy Service Name*

WSDL URI*

WSDL Service*

WSDL Port*

Publish Same Service Contract

Service Contract Publication Options

Publishing WSDL

WSDL URI

WSDL Resources

Location: Key: Configuration Registry Governance Registry

Transports

http

https

local

Logging Proxy

Create a proxy service which logs all the incoming requests and forwards them to a given endpoint. If necessary responses coming back from the backend service can be logged before routing them to the client.

Proxy Service Settings	
Proxy Service Name*	LoggingProxy
Target Endpoint*	<input checked="" type="radio"/> Enter URL <input type="radio"/> Pick from Registry
Target URL*	http://localhost:8280/services/Version
Request Log Level	Simple
Response Log Level	Full
Publish WSDL Options	
Publishing WSDL	None
Transports	
http	<input checked="" type="checkbox"/>
https	<input checked="" type="checkbox"/>
local	<input type="checkbox"/>
Create	Cancel

Pass Through Proxy

Create a simple proxy service on a specified endpoint. The proxy service does not perform any processing on the messages that pass through the proxy.

Proxy Service Settings	
Proxy Service Name*	PassThroughProxy
Target Endpoint*	<input checked="" type="radio"/> Enter URL <input type="radio"/> Pick from Registry
Target URL*	http://localhost:8280/services/Version
Publish WSDL Options	
Publishing WSDL	None
Transports	
http	<input checked="" type="checkbox"/>
https	<input checked="" type="checkbox"/>
local	<input type="checkbox"/>
Create	Cancel

Add Proxy Service

Design [switch to source view](#)

Step 1 of 3 - Basic Settings

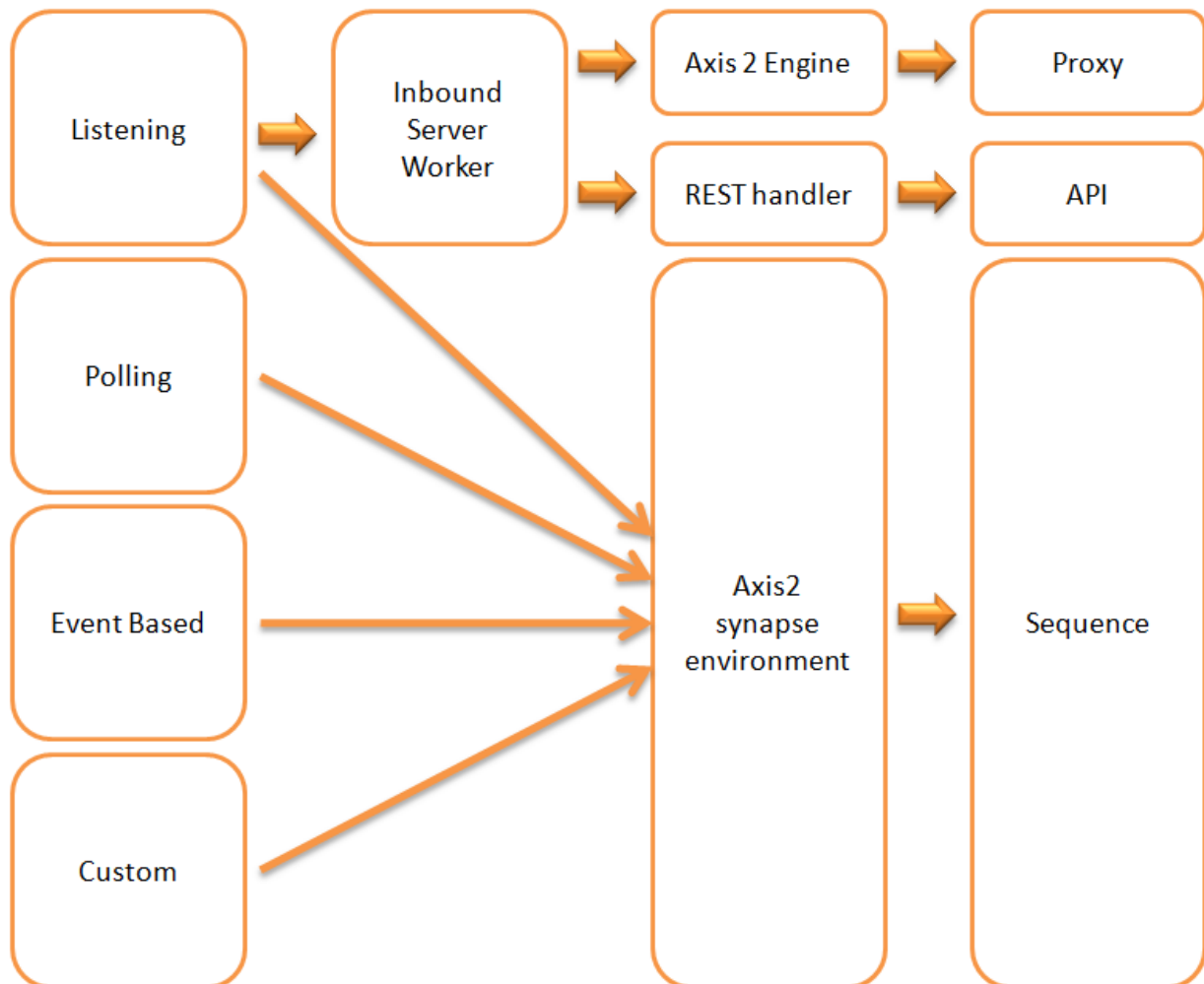
Proxy Service Name*

General Settings

Publishing WSDL	<input type="text" value="None"/>
Service Parameters	+ Add Parameter
Service Group	<input type="text" value="Custom"/>
Do Not load service on startup	<input type="checkbox"/>
Pinned servers (separated by comma or space)	<input type="text"/>
Service Description	<input type="text" value="Description of the service"/>

Transport Settings

http	<input checked="" type="checkbox"/>
https	<input checked="" type="checkbox"/>
local	<input type="checkbox"/>



WSO2 Enterprise Integrator Management Console
 Signed-in as: admin@carbon.super | [Sign-out](#) | [Docs](#) | [About](#)

Home > Update Inbound Endpoint ? Help

Update Inbound Endpoint

Update Inbound Endpoint

Endpoint Name	HttpInboundEndpoint		
Type	http		
Sequence	<input type="text" value="main"/>		
Error Sequence	<input type="text"/>		
inbound.http.port*	<input type="text" value="8765"/>		

Show Advanced Options

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Home > Update Inbound Endpoint ? Help

Update Inbound Endpoint

Update Inbound Endpoint

Endpoint Name	PollingInboundEndpoint		
Type	file		
Sequence*	<input type="text" value="main"/>		
Error Sequence*	<input type="text" value="fault"/>		
Suspend*	<input type="text" value="false"/>		
Interval*	<input type="text" value="5000"/>		
sequential*	<input type="text" value="true"/>		
coordination*	<input type="text" value="true"/>		
transport.vfs.FileURI*	<input type="text" value="file:///C:/Temp/pollingInboundEndpoint.txt"/>		
transport.vfs.ContentType*	<input type="text" value="text/plain"/>		

Show Advanced Options

WSO2 Enterprise Integrator Management Console
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Home > New Inbound Endpoint Help

New Inbound Endpoint

New Inbound Endpoint

Endpoint Name: EventBasedInboundEndpoint

Type: mqtt

Sequence*: Configuration Registry Governance Registry

Error Sequence*: Configuration Registry Governance Registry

Suspend*:

sequential*:

coordination*:

mqtt.connection.factory*:

mqtt.server.host.name*:

mqtt.server.port*:

mqtt.topic.name*:

content.type*:

Show Advanced Options

WSO2 Enterprise Integrator Management Console
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Home > New Inbound Endpoint Help

New Inbound Endpoint

New Inbound Endpoint

Endpoint Name: CustomInboundEndpoint

Type: class

Sequence*: Configuration Registry Governance Registry

Error Sequence*: Configuration Registry Governance Registry

Suspend*:

Class*:

Inbound Endpoint Behavior: Polling Inbound Endpoint Listening Inbound Endpoint Event Based Inbound Endpoint

Interval (milliseconds)*:

Sequential*:

Coordination*:

WSO2 Enterprise Integrator Management Console
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Home ? Help

New Scheduled Task

Basic Information

Task Name*

Trigger Information

Task Repeat Count* (-1 for infinite)

Task Interval* (Milliseconds)

Start Time (yyyy/mm/dd hh:mm:ss)

Data Service Specific Information

Scheduling Type

WSO2 Enterprise Integrator Management Console
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Home ? Help

New Scheduled Task

New Scheduled Task

Task Name*

Task Group*

Task Implementation*

Property Name	Property Type	Property Value	Action
<input type="text" value="to"/>	<input type="text" value="Literal"/>	<input type="text"/>	<input type="button" value="Delete"/>
<input type="text" value="format"/>	<input type="text" value="Literal"/>	<input type="text"/>	<input type="button" value="Delete"/>
<input type="text" value="message"/>	<input type="text" value="Literal"/>	<input type="text"/>	<input type="button" value="Delete"/>
<input type="text" value="soapAction"/>	<input type="text" value="Literal"/>	<input type="text"/>	<input type="button" value="Delete"/>
<input type="text" value="proxyName"/>	<input type="text" value="Literal"/>	<input type="text"/>	<input type="button" value="Delete"/>
<input type="text" value="sequenceName"/>	<input type="text" value="Literal"/>	<input type="text"/>	<input type="button" value="Delete"/>
<input type="text" value="registryKey"/>	<input type="text" value="Literal"/>	<input type="text"/>	<input type="button" value="Delete"/>
<input type="text" value="injectTo"/>	<input type="text" value="Literal"/>	<input type="text"/>	<input type="button" value="Delete"/>

Trigger Information of the Task

Trigger Type Simple Cron

Count

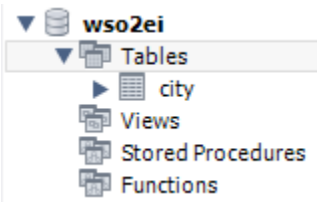
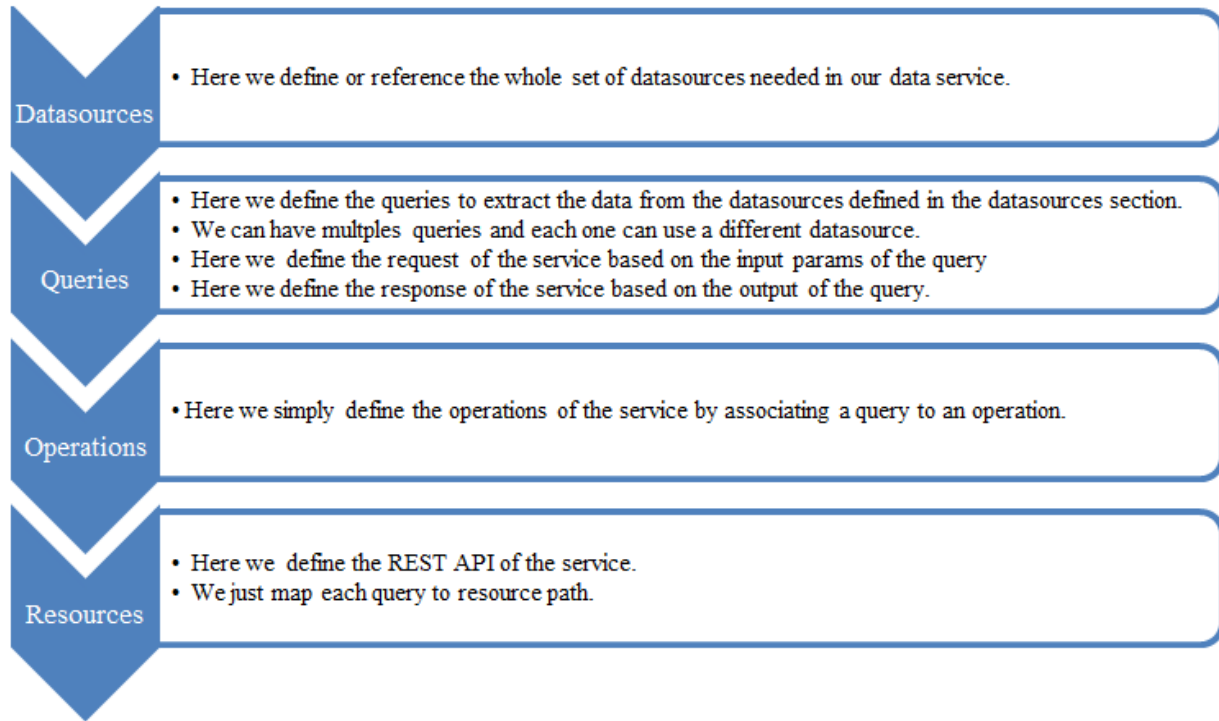
Interval (in seconds)*

Miscellaneous Information

Pinned Servers

(separated by comma or space)

Chapter 4: Building Data Services






Result Grid | Filter Rows: | Edit:

ID	Name	CountryCode	District	Population
1	Kabul	AFG	Kabol	1780000
2	Oandahar	AFG	Oandahar	237500
3	Herat	AFG	Herat	186800
4	Mazar-e-Sharif	AFG	Balkh	127800
5	Amsterdam	NLD	Noord-Holland	731200
6	Rotterdam	NLD	Zuid-Holland	593321
7	Haao	NLD	Zuid-Holland	440900
8	Utrecht	NLD	Utrecht	234323
9	Eindhoven	NLD	Noord-Brabant	201843
10	Tilbura	NLD	Noord-Brabant	193238

Datasources

Available Datasources

Datasource	Status	Action
IN_MEMORY_SAMPLE_DS	ACTIVE	 View
ECHO_SAMPLE_DS	ACTIVE	 View
WSO2_CARBON_DB	ACTIVE	 View

[+ Add Datasource](#)

Datasources

Available Datasources

Datasource
IN_MEMORY_SAMPLE_DS
ECHO_SAMPLE_DS
WSO2_CARBON_DB
+ Add Datasource

New Datasource

New Datasource	
Datasource Type*	RDBMS ▾
Name*	<input type="text"/>
Description	<input type="text"/>
Datasource Provider*	default ▾
Database Engine*	--SELECT-- ▾
Driver*	<input type="text"/>
URL*	<input type="text"/>
User Name	<input type="text"/>
Password	<input type="password"/>
<input type="checkbox"/> Expose as a JNDI Datasource	
<input type="checkbox"/> Datasource Configuration Parameters	
<input type="button" value="Test Connection"/> <input type="button" value="Save"/> <input type="button" value="Cancel"/>	

WSO2 Carbon ✕



Connection is healthy

OK



Datasources

Available Datasources

Datasource
IN_MEMORY_SAMPLE_DS
ECHO_SAMPLE_DS
MySQLWorld
WSO2 CARBON_DB
+ Add Datasource

1. Set Data Service details: name, namespace, transport...

2. Add datasources

3. Create queries

4. Create operations (WS operations)

5. Create resources (REST API)

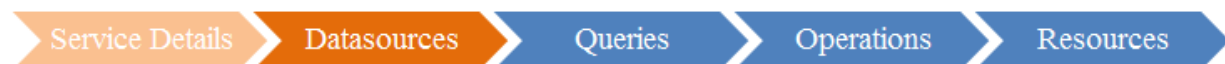


Create Data Service

Service Details	
Data Service Name*	<input type="text"/>
Data Service Namespace	<input type="text"/>
Description	<input type="text"/>
Advanced Configurations	
<input type="checkbox"/>	Enable Batch Requests
<input type="checkbox"/>	Enable Boxcarring
<input checked="" type="checkbox"/>	Enable Streaming
Transport Settings	
<input checked="" type="checkbox"/>	http
<input checked="" type="checkbox"/>	https
<input checked="" type="checkbox"/>	local
<input type="checkbox"/>	jms
Show Advanced Distributed Transactions Settings	
<input type="checkbox"/>	Authorization Provider Configurations

Create Data Service

Service Details	
Data Service Name*	<input type="text" value="My1stDataService"/>
Data Service Namespace	<input type="text" value="http://www.m1stdataservice.com"/>
Description	<input type="text" value="This is my first data service to connect to MySQL"/>
Advanced Configurations	
<input type="checkbox"/>	Enable Batch Requests
<input type="checkbox"/>	Enable Boxcarring
<input checked="" type="checkbox"/>	Enable Streaming
Transport Settings	
<input checked="" type="checkbox"/>	http
<input checked="" type="checkbox"/>	https
<input checked="" type="checkbox"/>	local
<input type="checkbox"/>	jms
Show Advanced Distributed Transactions Settings	
<input checked="" type="checkbox"/>	Authorization Provider Configurations
<input type="button" value="Next >"/>	<input type="button" value="Cancel"/>



Datasources

<input checked="" type="button" value="Add New Datasource"/>
<input type="button" value=" < Back"/> <input type="button" value=" Next >"/> <input type="button" value=" Finish"/> <input type="button" value=" Cancel"/>

Add New Datasource



New Datasource	
Datasource Id*	<input type="text"/>
Datasource Type*	--SELECT-- ▾
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

Edit Datasource (MySQL)

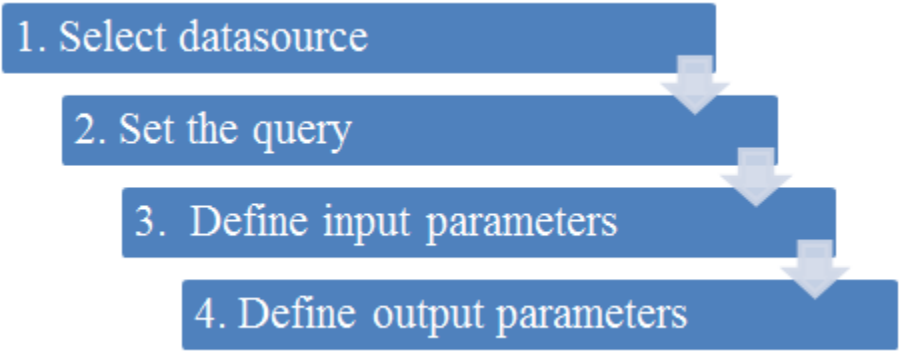
New Datasource	
Datasource Id*	MySQL
Datasource Type*	Carbon Datasource ▾
Datasource Name	--SELECT-- ▾
Enable OData	--SELECT--
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

- MySQLWorld
- WSO2_CARBON_DB
- IN_MEMORY_SAMPLE_DS
- ECHO_SAMPLE_DS


Datasources

Name	Actions
MySQL	 Edit Datasource  Delete Datasource
+ Add New Datasource	
<input type="button" value=" < Back"/> <input type="button" value=" Next >"/> <input type="button" value=" Finish"/> <input type="button" value=" Save as Draft"/> <input type="button" value=" Cancel"/>	





Queries

 Add New Query

Add New Query (My1stDataService)

Query Details

Query ID*

Datasource* --SELECT-- ▾

Return Generated Keys Return Updated Row Count

Result (Output Mapping)

Output type XML ▾

Use Column Numbers

Escape Non Printable Characters

Grouped by element

Row name

Row namespace

XSLT Path [Configuration Registry](#) [Govenance Registry](#)

Currently there are no output mappings present for this query

[Add New Output Mapping](#)

Events

Input Event Trigger --Select-- ▾

Output Event Trigger --Select-- ▾

[Manage Events](#)

Add New Query (My1stDataService)

Query Details

Query ID*

Datasource* --SELECT-- ▾

Return Gen MySQL Return Update

Add New Query (My1 stDataService)

Query Details

Query ID*

Datasource*

SQL*

[+ Add New SQL Dialect](#) [Generate Input Mappings](#) [Generate Response](#)

SQL*

```
SELECT ID, Name, CountryCode, District, Population
FROM city
```

[+ Add New SQL Dialect](#) [Generate Input Mappings](#) [Generate Response](#)


SQL*


```
SELECT ID, Name, CountryCode, District, Population  
FROM city
```

 Add New SQL Dialect

 Generate Input Mappings

 Generate Response

 SQL Dialects

 Advanced Query Properties

Input Mappings

Currently there are no input mappings present for this query

 Add New Input Mapping

Return Generated Keys

Return Updated Row Count

SQL*

```
SELECT ID, Name, CountryCode, District, Population  
FROM city
```

 Add New SQL Dialect

 Generate Input Mappings

 Generate Response

Result (Output Mapping)

Output type XML ▾

- Use Column Numbers
- Escape Non Printable Characters


Grouped by element Entries











Row name Entry


Row namespace











XSLT Path

 Configuration Registry

 Governance Registry

Element Name	Datasource Type	Datasource Column Name	Mapping Type	Allowed User Roles	Schema Type	Actions
ID	column	ID	element	N/A	string	 Edit  Delete
Name	column	Name	element	N/A	string	 Edit  Delete
CountryCode	column	CountryCode	element	N/A	string	 Edit  Delete
District	column	District	element	N/A	string	 Edit  Delete
Population	column	Population	element	N/A	string	 Edit  Delete

 [Add New Output Mapping](#)

Element Name	Datasource Type	Datasource Column Name	Mapping Type	Allowed User Roles	Schema Type	Actions
ID	column	ID	element	N/A	string	 Edit  Delete
Name	column	Name	element	N/A	string	 Edit  Delete
CountryCode	column	CountryCode	element	N/A	string	 Edit  Delete
District	column	District	element	N/A	string	 Edit  Delete
Population	column	Population	element	N/A	string	 Edit  Delete

Edit Output Mapping (My1stDataService/citiesXML/Name)

Edit Output Mapping

Mapping Type*

Datasource Type*

Output Field Name

Element Namespace

Datasource Column Name

Parameter Type

Schema Type

Optional

Export Option

Allowed User Roles











User Roles	
admin	<input type="checkbox"/>
Internal/everyone	<input type="checkbox"/>

Schema Type




Optional

Export Option

- string
- string**
- integer
- boolean
- float
- double
- decimal
- dateTime
- time
- date
- long
- base64Binary

Element Name	Datasource Type	Datasource Column Name	Mapping Type	Allowed User Roles	Schema Type	Actions
CityID	column	ID	element	N/A	string	 Edit  Delete
CityName	column	Name	element	N/A	string	 Edit  Delete
CountryCode	column	CountryCode	element	N/A	string	 Edit  Delete
District	column	District	element	N/A	string	 Edit  Delete
Population	column	Population	element	N/A	string	 Edit  Delete

Queries

Query	Type	Actions
citiesXML	MySQL	 Edit Query  Delete Query
 Add New Query		
<input type="button" value=" < Back"/> <input type="button" value=" Next >"/> <input type="button" value=" Finish"/> <input type="button" value=" Save as Draft"/> <input type="button" value=" Cancel"/>		

Query Details

Query ID*

Datasource*

SQL*

```
SELECT ID, Name, CountryCode, District, Population  
FROM city
```

[Add New SQL Dialect](#) [Generate Input Mappings](#) [Generate Response](#)

SQL Dialects

Advanced Query Properties

Input Mappings

Currently there are no input mappings present for this query

[Add New Input Mapping](#)

Return Generated Keys Return Updated Row Count

Result (Output Mapping)

Output type

Use Column Numbers

Escape Non Printable Characters

```
{  
  "entries": {  
    "entry": [  
      {  
        "field1": "$column1",  
        "field2": "$column2"  
      }  
    ]  
  }  
}
```

Result (Output Mapping)

Output type

JSON ▼

Use Column Numbers

Escape Non Printable Characters

```
{"Cities":  
{"City":[{"CityID": "$1","CityNAME":"$2","CountryCode":  
"$3","District": "$4","Population": "$5"}]}}
```

Edit Input Mapping (My1stDataService/citiesStartingWithXML/country)

Input Mappings

Mapping Name*

country

Parameter Type

SCALAR ▼

SQL Type*

STRING ▼

Default Value

IN/OUT Type

IN ▼

Ordinal

1

Add Validations

Validator

--Select-- ▼

Validator	Validation
Length Validator	maximum=50 minimum=3

Main Configuration

Save

Input Mappings

Mapping Name	Parameter Type	Type	Action
country	SCALAR	STRING	Edit Delete
population	SCALAR	INTEGER	Edit Delete

Input Mappings

Mapping Name	Parameter Type	Type	Action
name	SCALAR	STRING	Edit Delete
countryCode	SCALAR	STRING	Edit Delete
district	SCALAR	STRING	Edit Delete
population	SCALAR	INTEGER	Edit Delete

Input Mappings

Mapping Name	Parameter Type	Type	Action
name	SCALAR	STRING	Edit Delete
countryCode	SCALAR	STRING	Edit Delete
district	SCALAR	STRING	Edit Delete
population	SCALAR	INTEGER	Edit Delete

Add New Input Mapping

Return Generated Keys Return Updated Row Count

Key Columns

Result (Output Mapping)

Output type XML ▾

Use Column Numbers

Escape Non Printable Characters

Grouped by element

Row name

Row namespace

XSLT Path

Configuration Registry

Governance Registry

Element Name	Datasource Type	Datasource Column Number	Mapping Type	Allowed User Roles	Schema Type	Actions
ID	column	1	element	N/A	integer	Edit Delete

Input Mappings

Mapping Name	Parameter Type	Type
name	SCALAR	STRING
countryCode	SCALAR	STRING
district	SCALAR	STRING
population	SCALAR	INTEGER
id	SCALAR	INTEGER

 [Add New Input Mapping](#)

Return Generated Keys Return Updated Row Count

Return Generated Keys Return Updated Row Count

Result (Output Mapping)

Output type

XML ▼

Use Column Numbers

Escape Non Printable Characters

Grouped by element

Row name

Row namespace

XSLT Path













 [Configuration Registry](#)

Element Name	Datasource Type	Datasource Column Number	Mapping Type
Value	column	1	element

Input Mappings

Mapping Name	Parameter Type	Type
ID	SCALAR	INTEGER

Queries

Query	Type	Actions
citiesXML	MySQL	 Edit Query  Delete Query
citiesJSON	MySQL	 Edit Query  Delete Query
citiesFromCountryXML	MySQL	 Edit Query  Delete Query
insertCity	MySQL	 Edit Query  Delete Query
updateCity	MySQL	 Edit Query  Delete Query
deleteCity	MySQL	 Edit Query  Delete Query
+ Add New Query		
< Back Next > Finish Save as Draft Cancel		



Operations

[+ Add New Operation](#)

[< Back](#) [Next >](#) [Finish](#) [Save as Draft](#) [Cancel](#)

Add New Operation (My1stDataService)

Operations

Operation Name*

Description

Query ID*

[+ Add Query Params as Operation Params](#)

Enable Streaming

Operations

Operation Name	Query	Actions
citiesXML	citiesXML	Edit Operation Delete Operation
citiesFromCountryXML	citiesFromCountryXML	Edit Operation Delete Operation
insertCity	insertCity	Edit Operation Delete Operation
updateCity	updateCity	Edit Operation Delete Operation
deleteCity	deleteCity	Edit Operation Delete Operation
+ Add New Operation		
<input type="button" value=" < Back"/> <input type="button" value=" Next >"/> <input type="button" value=" Finish"/> <input type="button" value=" Save as Draft"/> <input type="button" value=" Cancel"/>		

Projects

- Chapter4_CitiesProject
 - My1stDataServiceSOAP11Binding
 - citiesFromCountryXML
 - citiesXML
 - deleteCity
 - insertCity
 - updateCity
 - My1stDataServiceSOAP12Binding
 - citiesFromCountryXML
 - citiesXML
 - deleteCity
 - insertCity
 - updateCity
 - http://localhost:8280



Resources

[+ Add New Resource](#)

[< Back](#) [Finish](#) [Save as Draft](#) [Cancel](#)

Add Resources(My1stDataService)

Resources

Resource Path*

Description

Resource Method*

Query ID*

Enable Streaming

Resources

Resource Path	Query	Actions
cities	citiesJSON	Edit Resource Delete Resource
+ Add New Resource		
<input type="button" value="Back"/> <input type="button" value="Finish"/> <input type="button" value="Save as Draft"/> <input type="button" value="Cancel"/>		

Home > Deployed Services

[Help](#)

Deployed Services

6 active services, 6 deployed service group(s).

Service Type Service

Select all in this page | Select none

Delete

Services							
<input type="checkbox"/>	echo	axis2	Unsecured	WSDL1.1	WSDL2.0	Try this service	Download
<input type="checkbox"/>	My1stDataService	data_service	Unsecured	WSDL1.1	WSDL2.0	Try this service	
<input type="checkbox"/>	My1stProxy	proxy	Unsecured	WSDL1.1	WSDL2.0	Try this service	Design View Source View

Method: GET
Endpoint: http://localhost:8280
Resource: /services/My1stDataServiceRest/cities

```

1 [{"Cities": {"City": [
2   {
3     "CityID": "1",
4     "Population": "1780000",
5     "CityNAME": "Kabul",
6     "CountryCode": "AFG",
7     "District": "Kabul"
8   }
9   },
10  {
11    "CityID": "2",
12    "Population": "237500",
13    "CityNAME": "Qandahar",
14    "CountryCode": "AFG",
15    "District": "Qandahar"
16  }
17  },
18  {
19    "CityID": "3",
20    "Population": "186800",
21    "CityNAME": "Herat",
22    "CountryCode": "AFG",
23    "District": "Herat"
24  }
25  }
26  ]

```

Header	Value
Accept	application/json

Select Datasource

Carbon Datasource Details

Carbon Datasource(s)*

Database Name*

Customize Service Generation

Select all | Select none

Select Table(s)

city

Service Generation

Select Service Generation Mode

Single Service - Creates one service for all selected tables

Multiple Services - Creates a service per table

Data Service Namespace

< Back Next > Cancel






Generated Service(s)

Deployed Service(s)

Following Service(s) are Deployed Sucessfully

city_DataService

Finish

Services						
<input type="checkbox"/>	city_DataService	 data_service	 Unsecured	 WSDL1.1	 WSDL2.0	 Try this service

- All Operations

delete_city_operation

insert_city_operation

select_all_city_operation


select_with_key_city_operat

update_city_operation

Service Dashboard (My1stDataService)



Service Details	
Service Name	My1stDataService
Service Description	
Service Group Name	My1stDataService
Deployment Scope	request
Service Type	data_service 

Operations

 Active [[Deactivate](#)]

Quality of Service Configuration

Specific Configuration

-  Edit Data Service (Wizard)
-  Edit Data Service (XML Edit)

Data Service XML Editor(My1stDataService)

```
My1stDataService.dbs
1 <data name="My1stDataService" serviceNamespace="http://dataservices/my1stdataservice" ser
2 <description>This is my first data service</description>
3 <config id="mysql">
4 <property name="carbon_datasource_name">MySQL</property>
5 </config>
6 </data>
7
```

Outline Source Data Sources

My1stDataService.dbs

Data Service Description

Data Service Outline

- My1stDataService (data)

Add DataSource

- Add Description
- Add Query
- Add Event Trigger
- Add Operation
- Add Resource
- Add Policy

- RDBMS
- CSV
- Cassandra
- Spreadsheet
- JNDI Data Source
- Google Spreadsheet
- Carbon Data Source

Description

My1stDataService.dbs

Data Service Description

Horizontal Vertical

Data Service Outline

- My1stDataService (data)
 - MySQL (config)
 - citiesXML (query)
 - citiesJSON (query)
 - citiesFromCountryXML (query)
 - insertCity (query)
 - updateCity (query)
 - deleteCity (query)
 - citiesXML (operation)
 - citiesFromCountryXML (operation)
 - insertCity (operation)
 - updateCity (operation)
 - deleteCity (operation)
 - GET (resource)

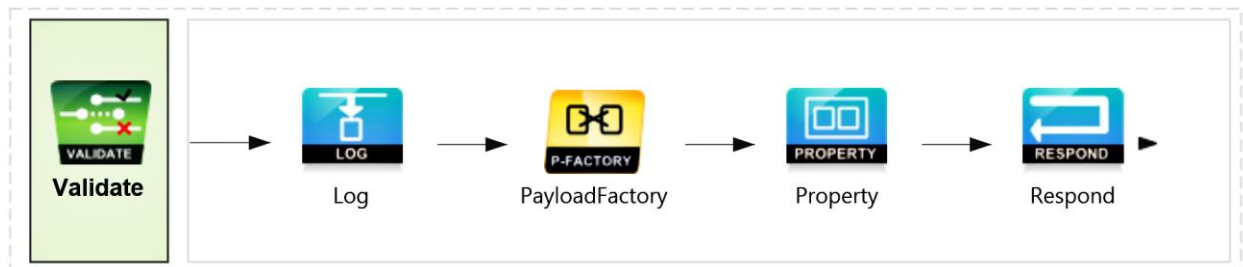
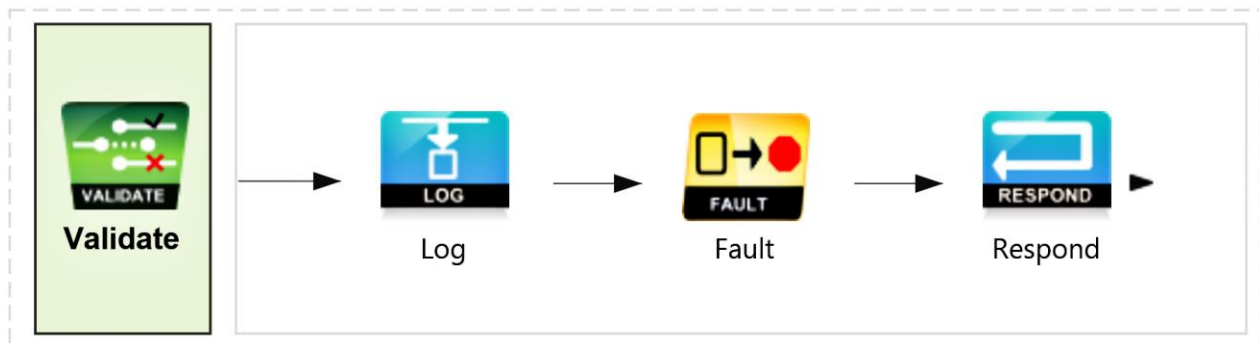
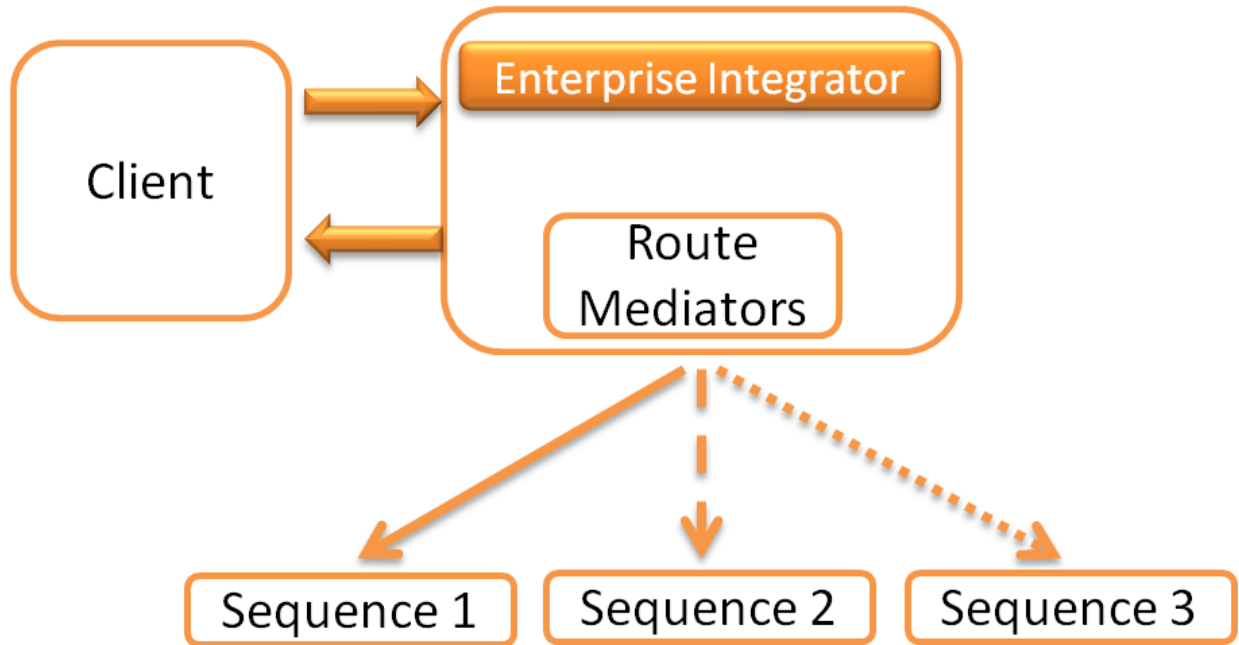
My1stDataService (data)

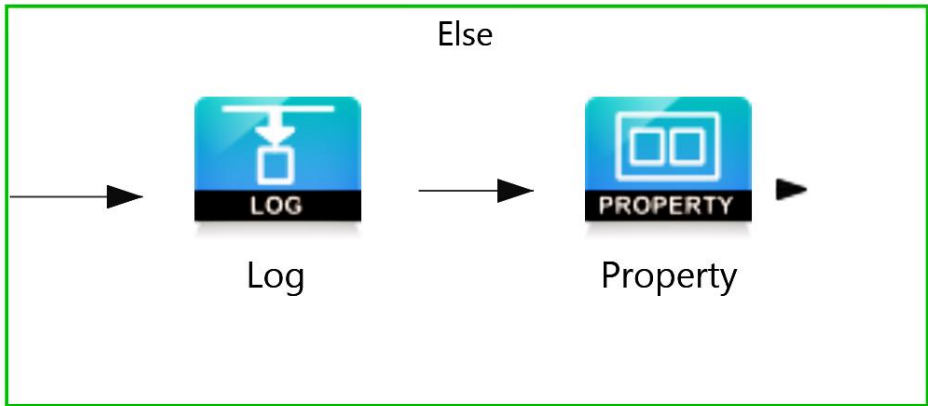
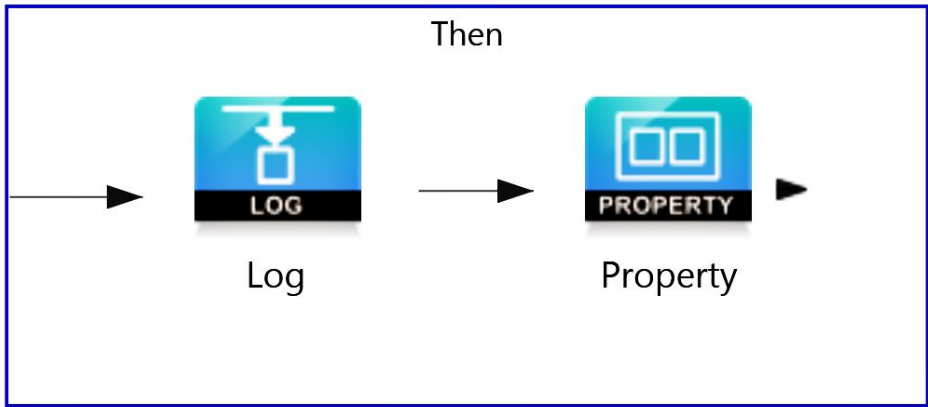
Set the properties of the selected object.

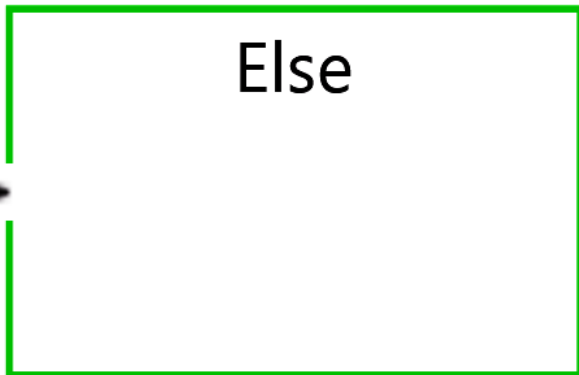
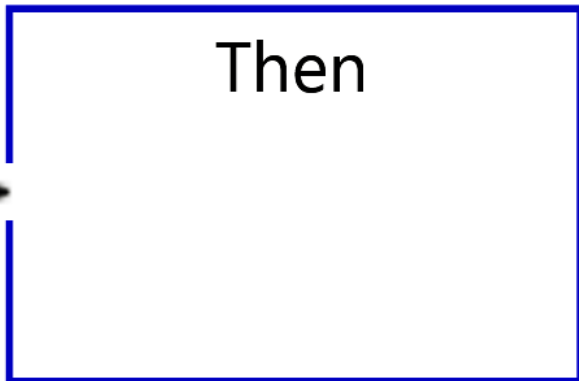
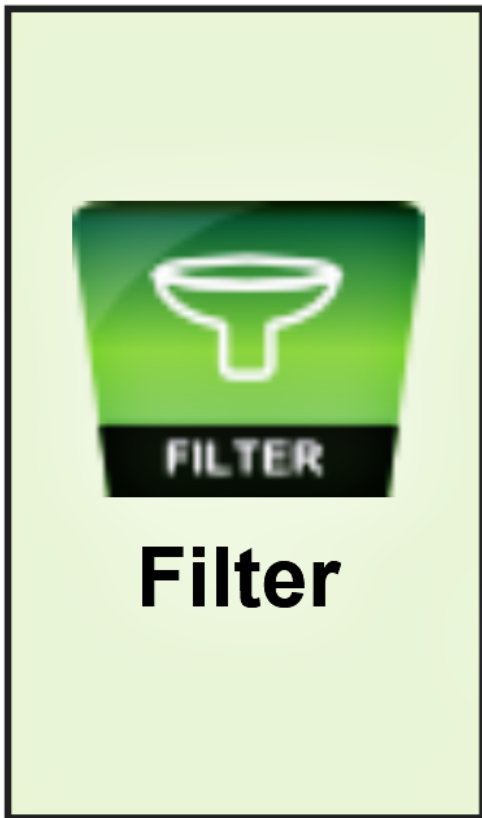
Data Service Name	My1stDataService
Data Service Group	
Data Service Namespace	http://www.m1stdataservice.com
Transports	http https local
Base URI	
Enable Batch Requests	False
Enable Boxcarring	False
Disable Legacy Boxcarring Mode	False
Enable Distributed Transactions	False
Disable Streaming	False
Enable Security	False

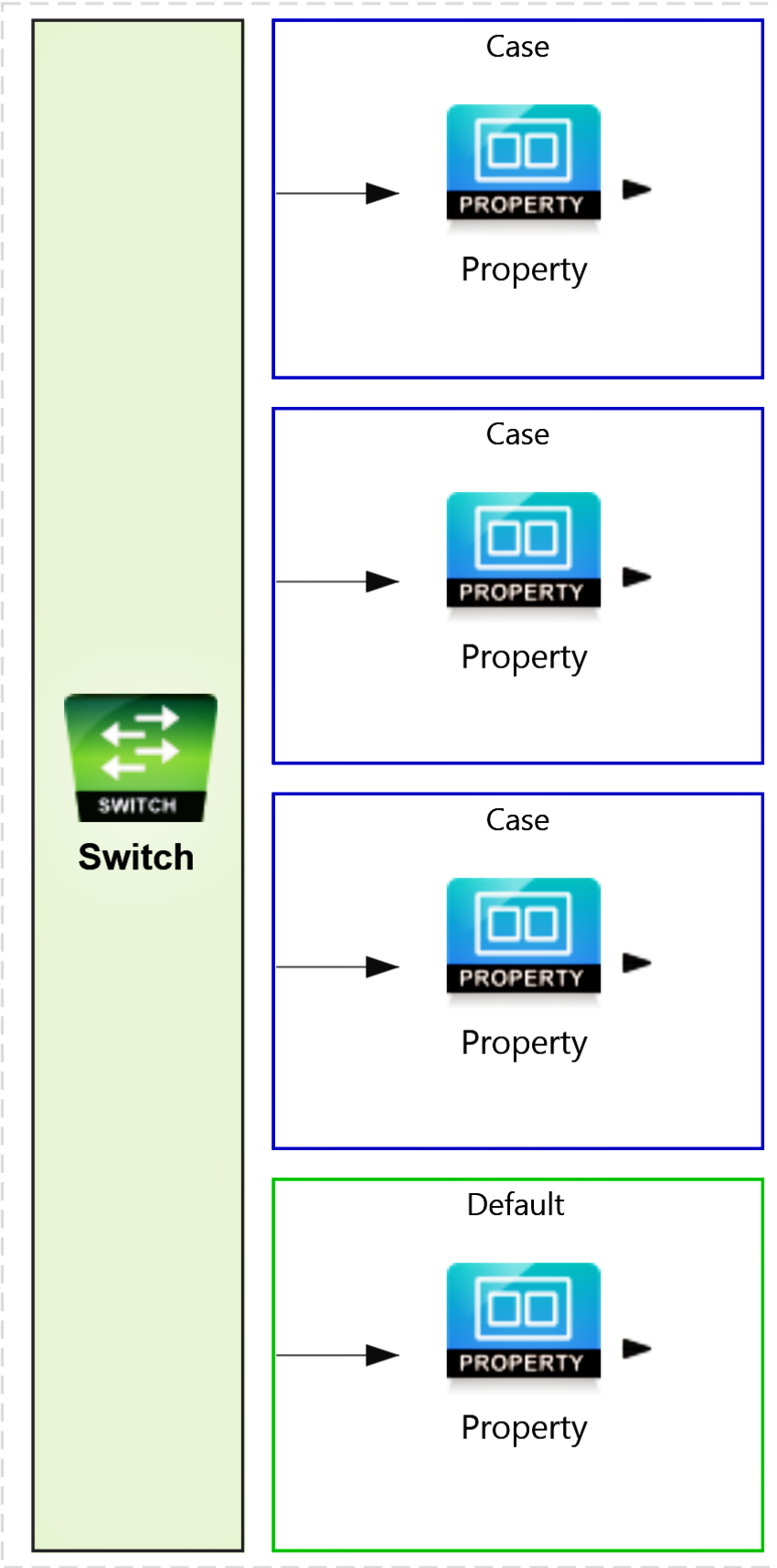
Outline Source Data Sources

Chapter 6: Conditional Route





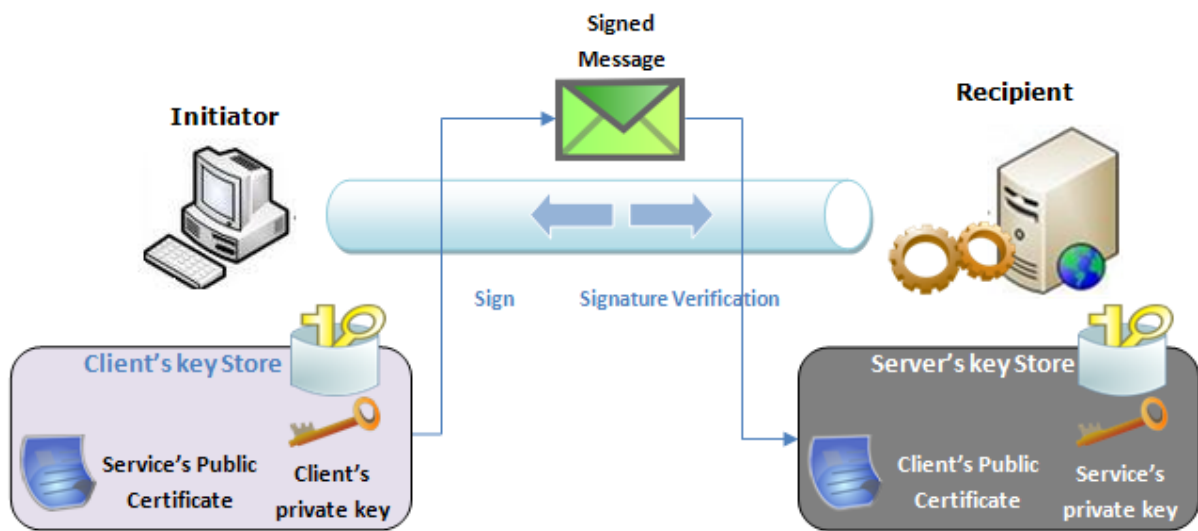
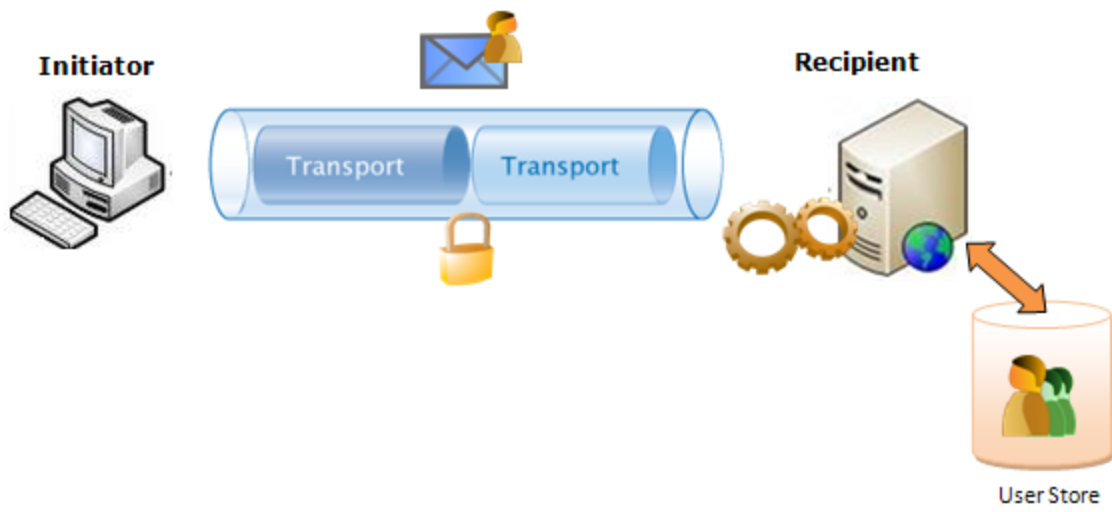


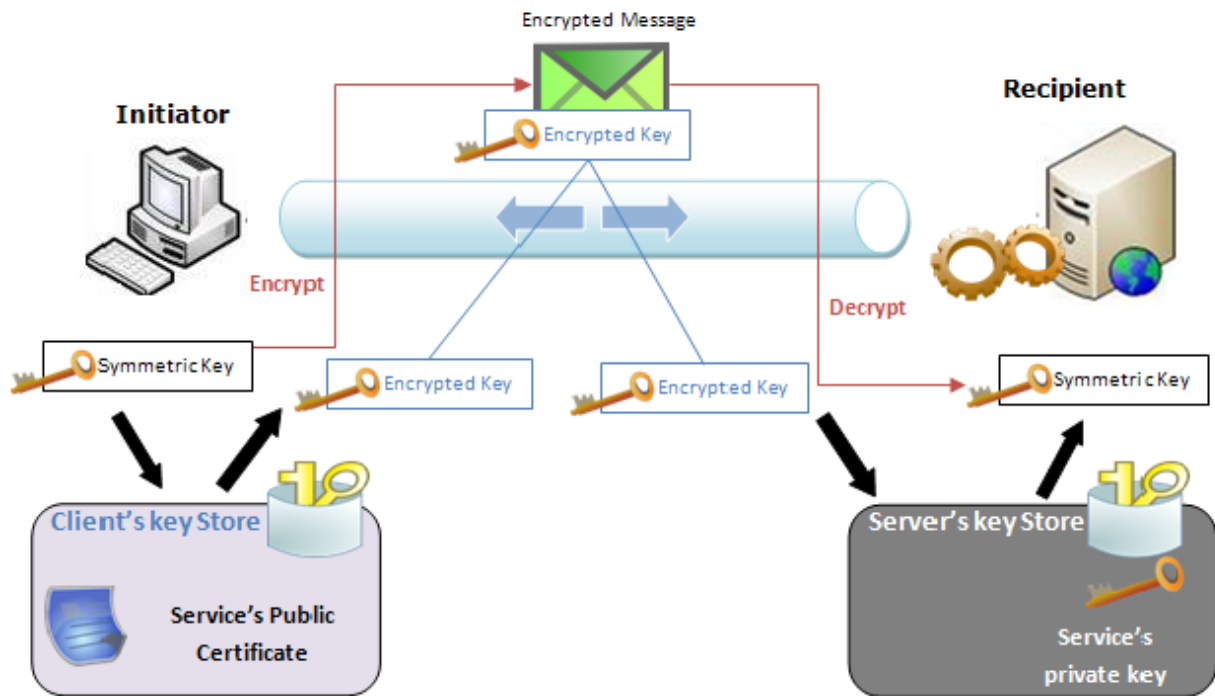
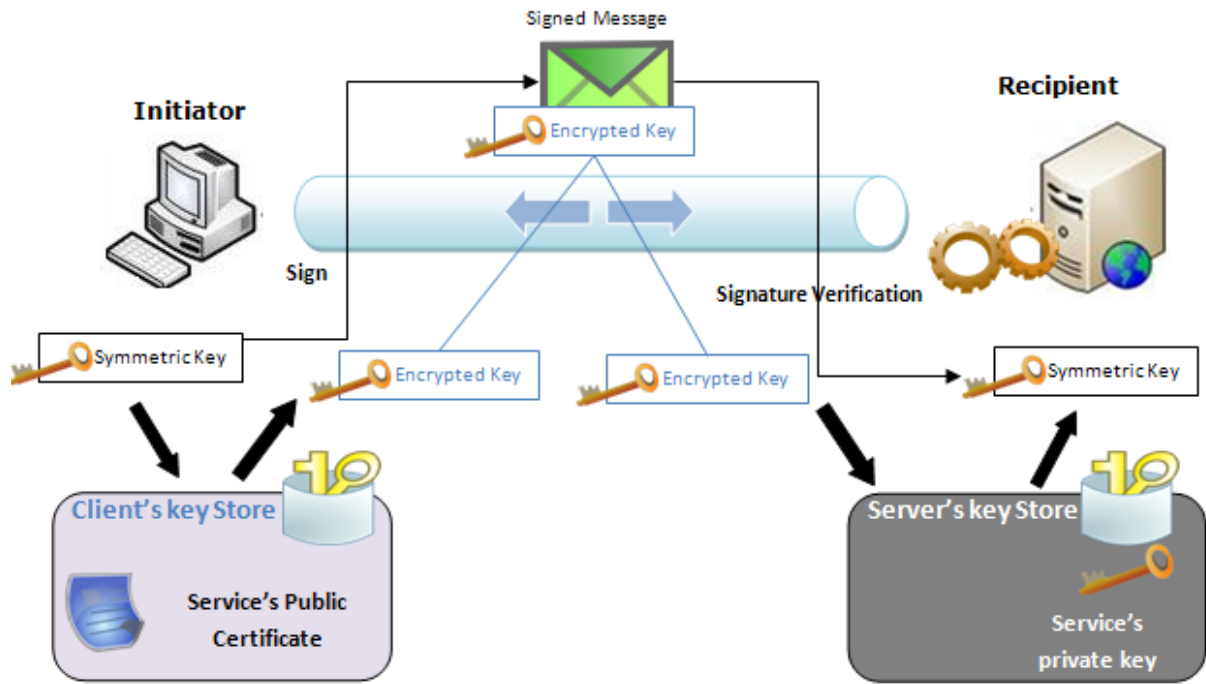


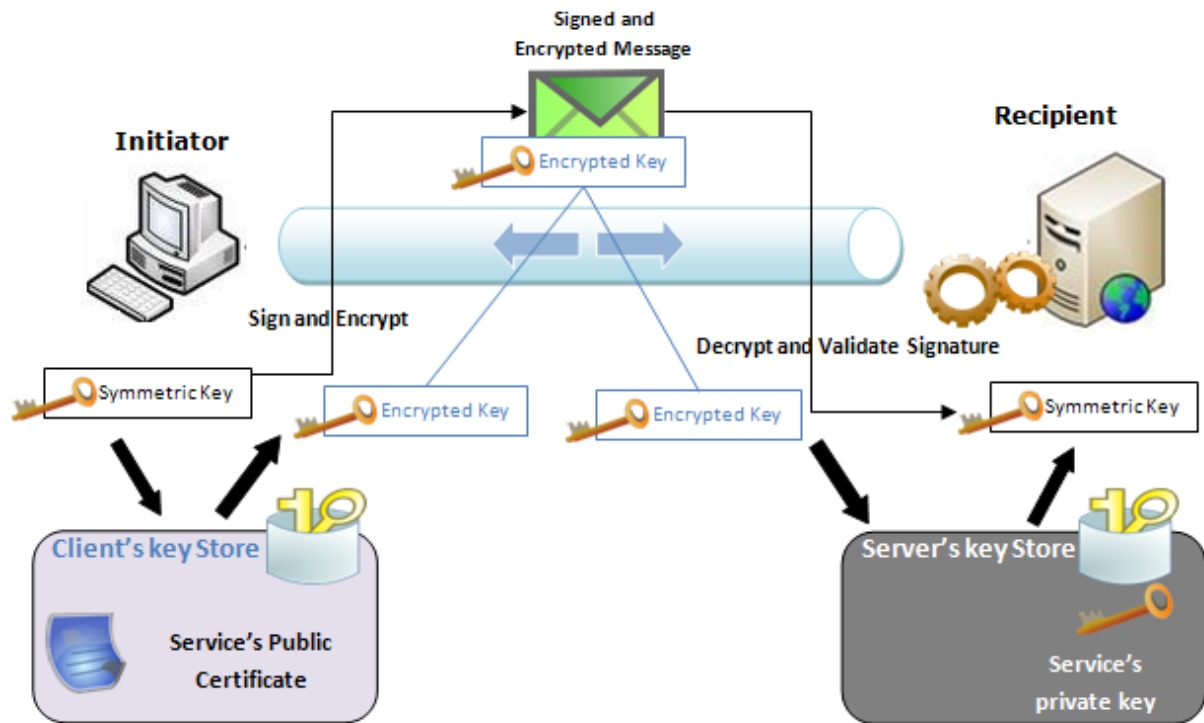
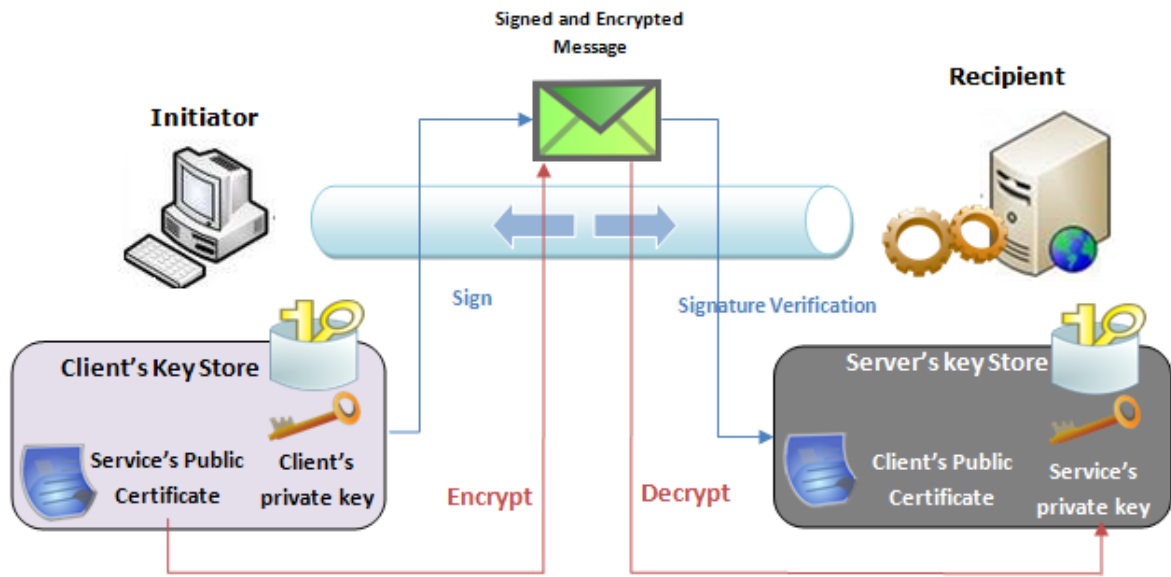


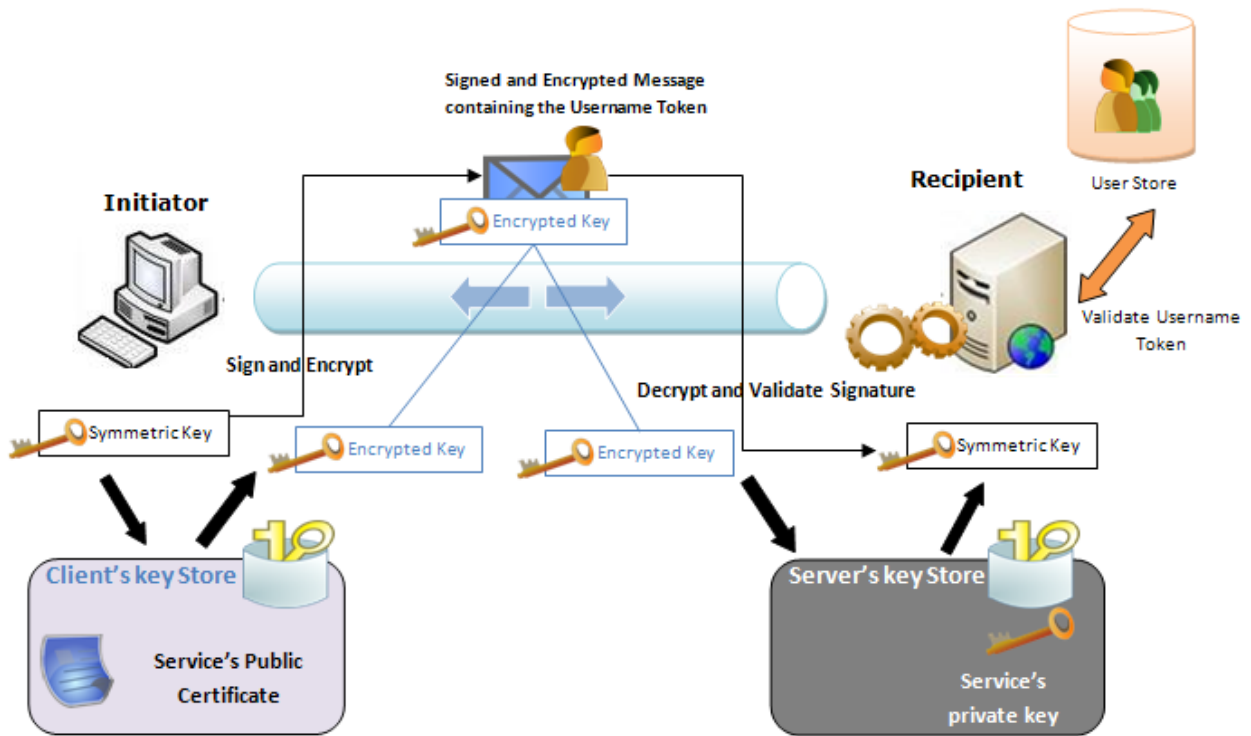
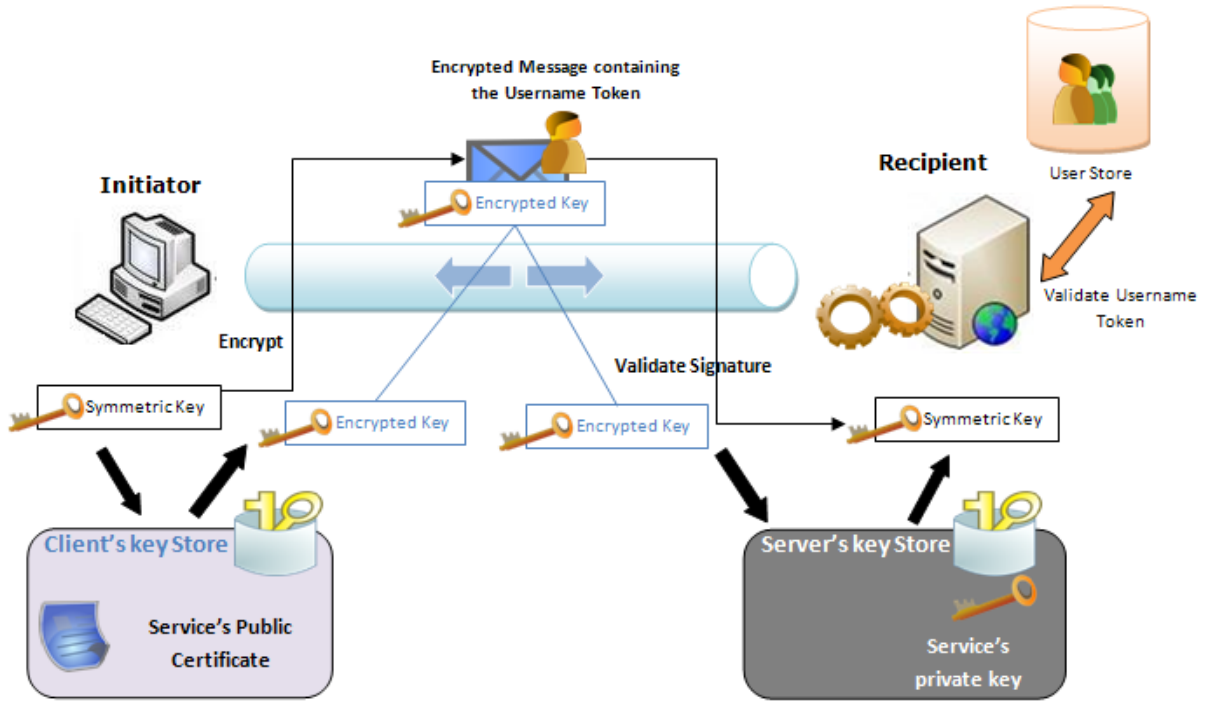
ConditionalRouter

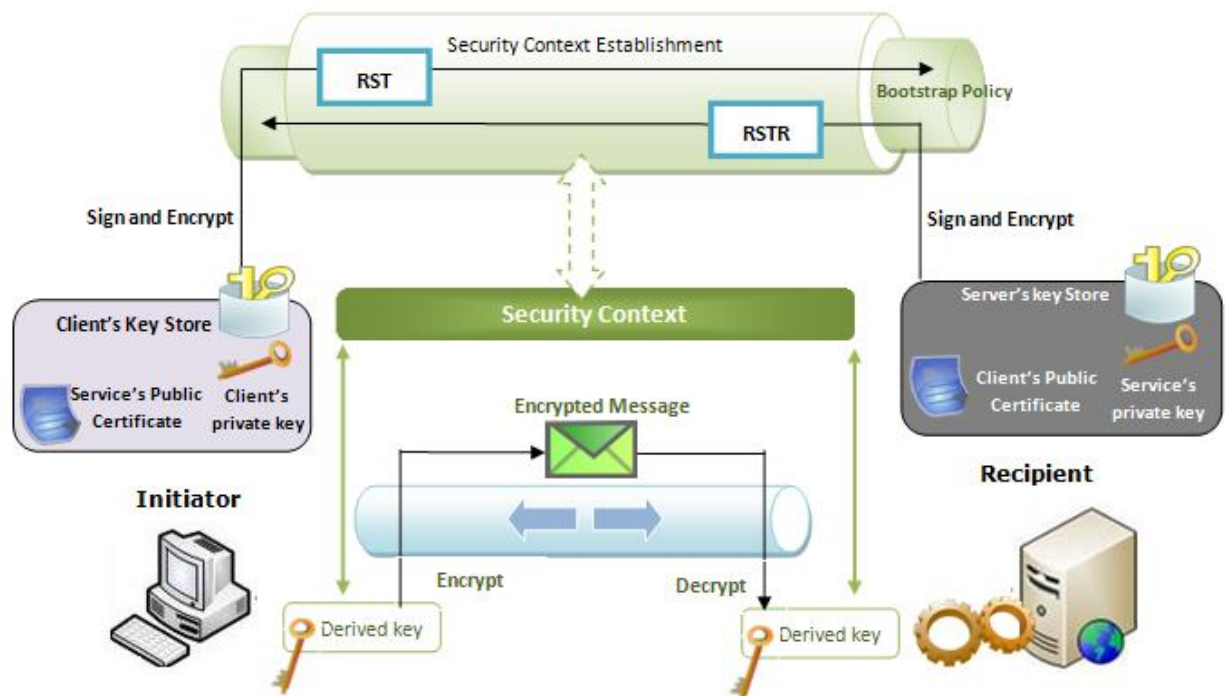
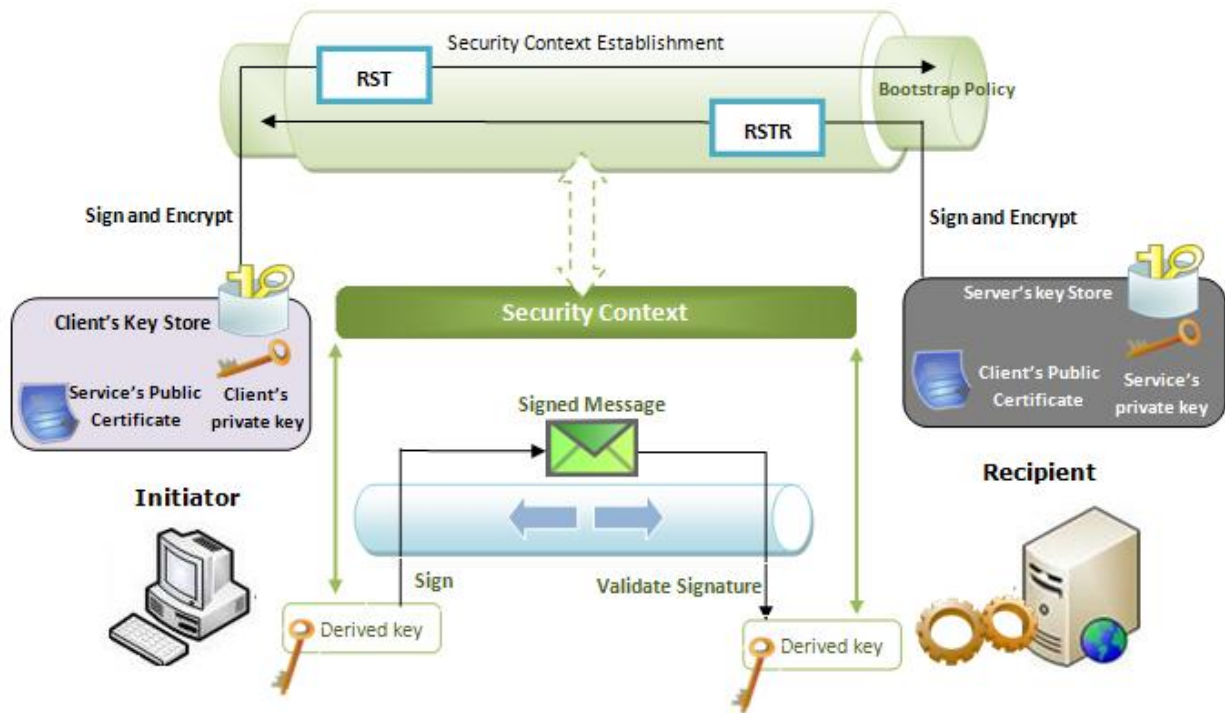
Chapter 7: Quality of Service

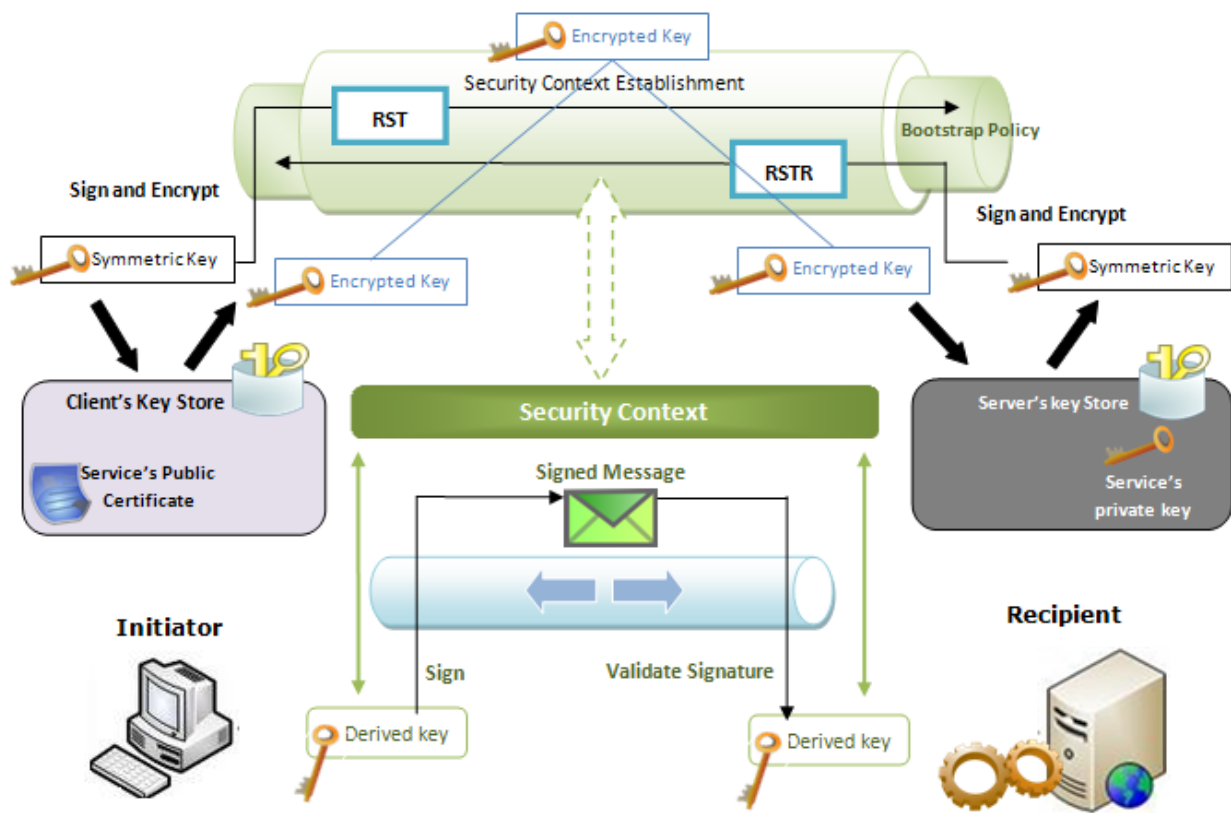
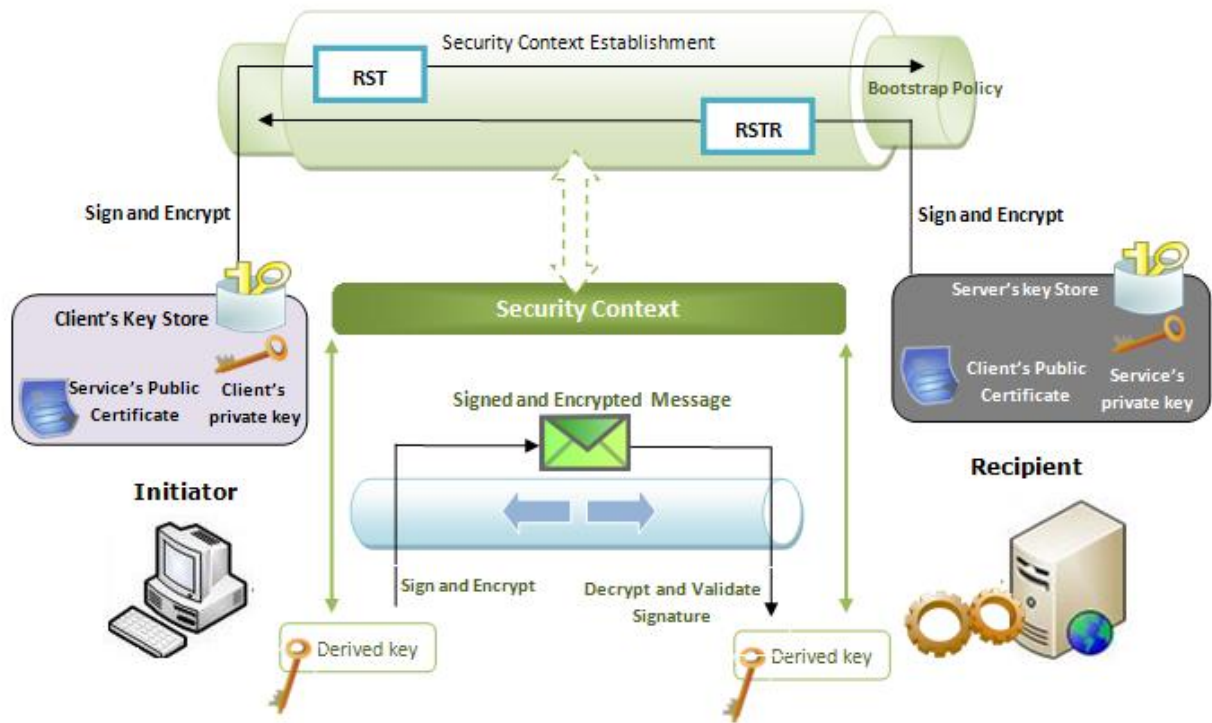


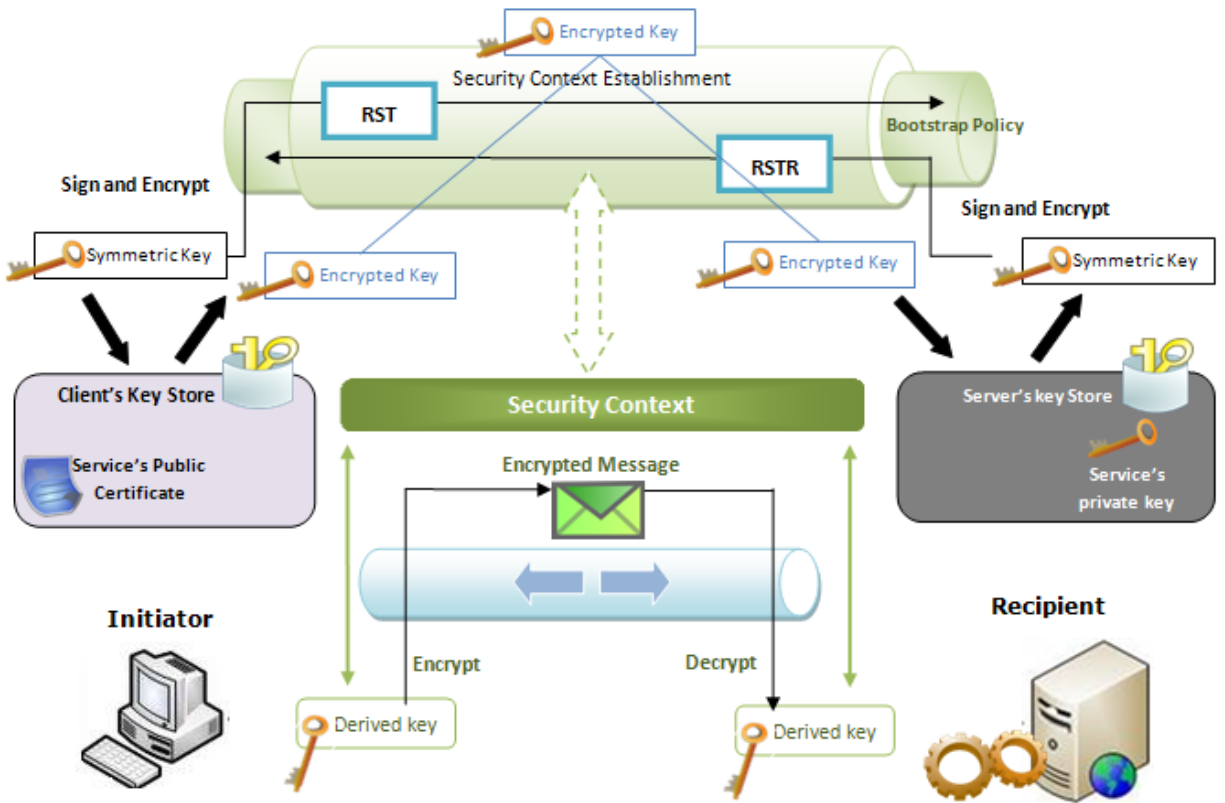


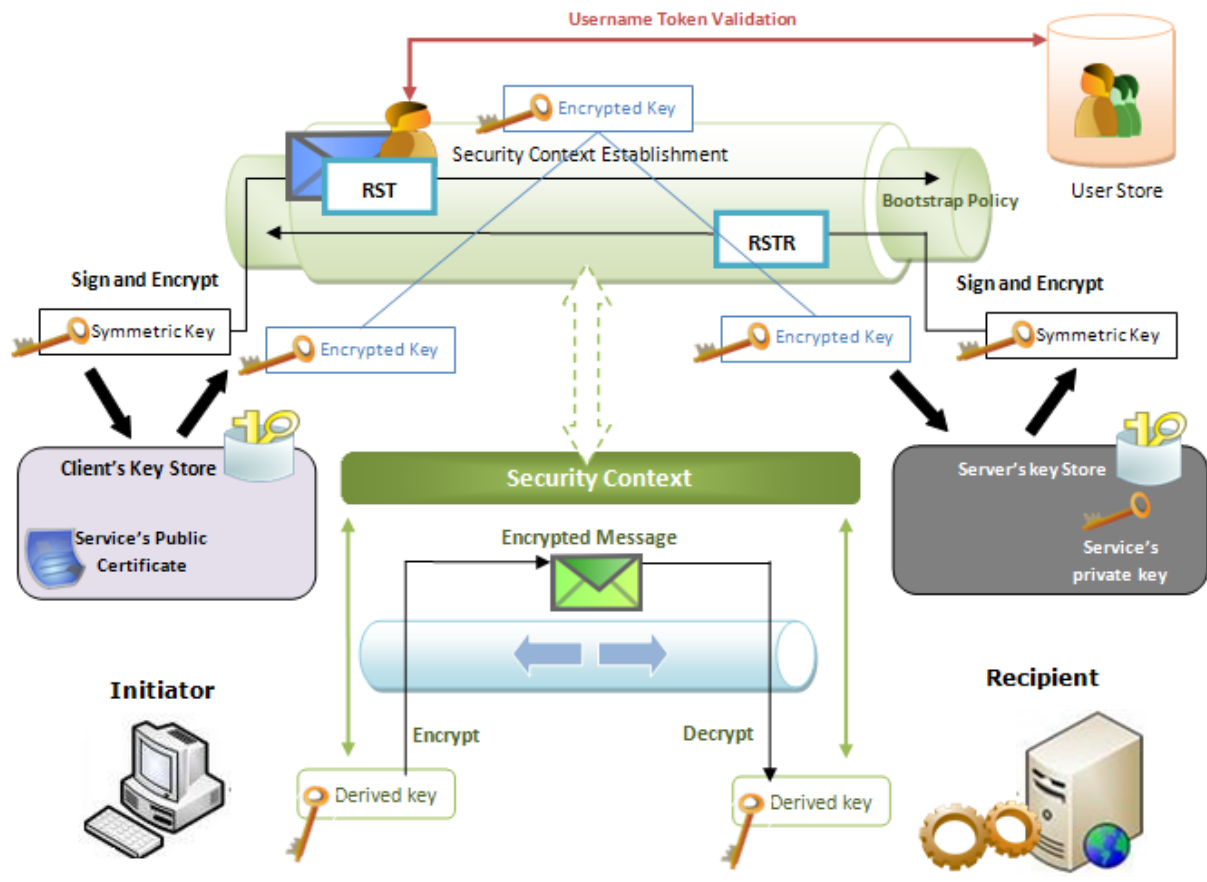


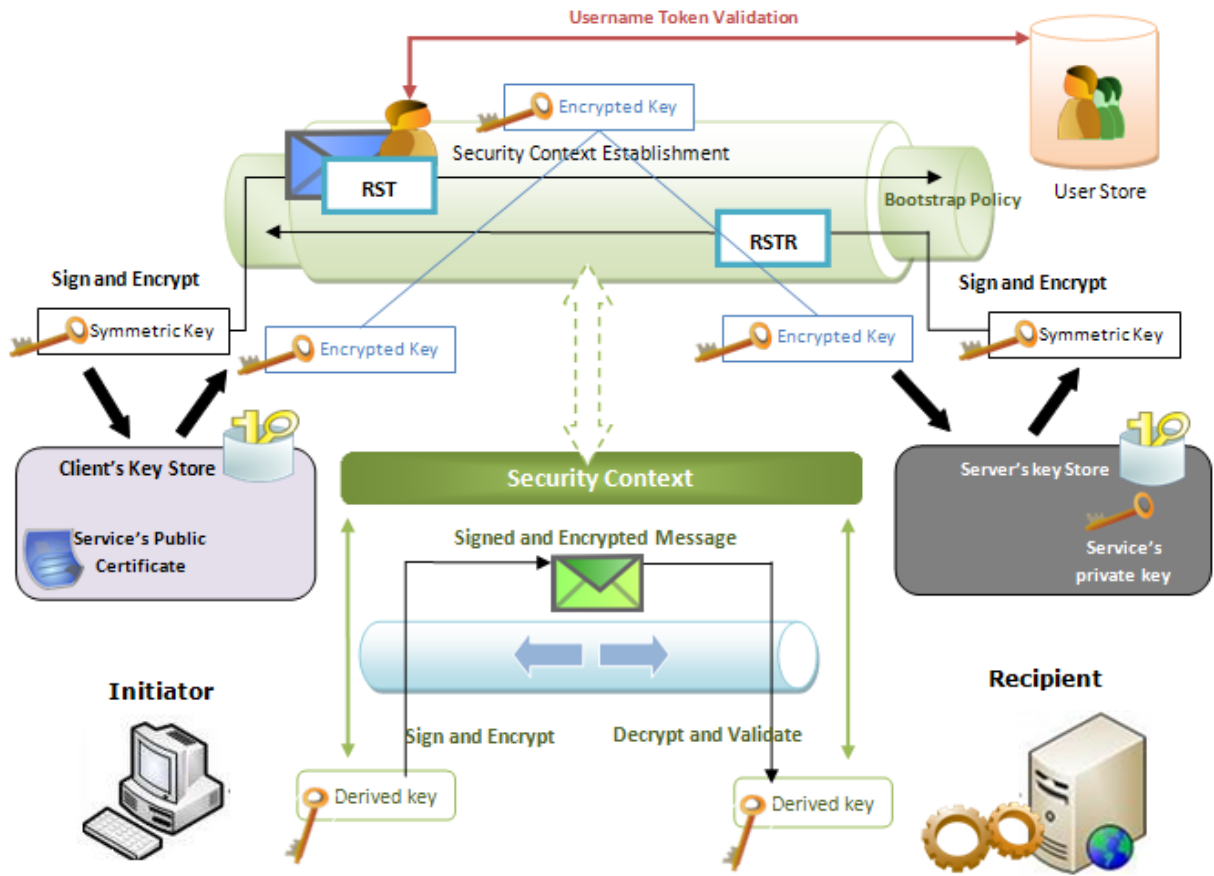


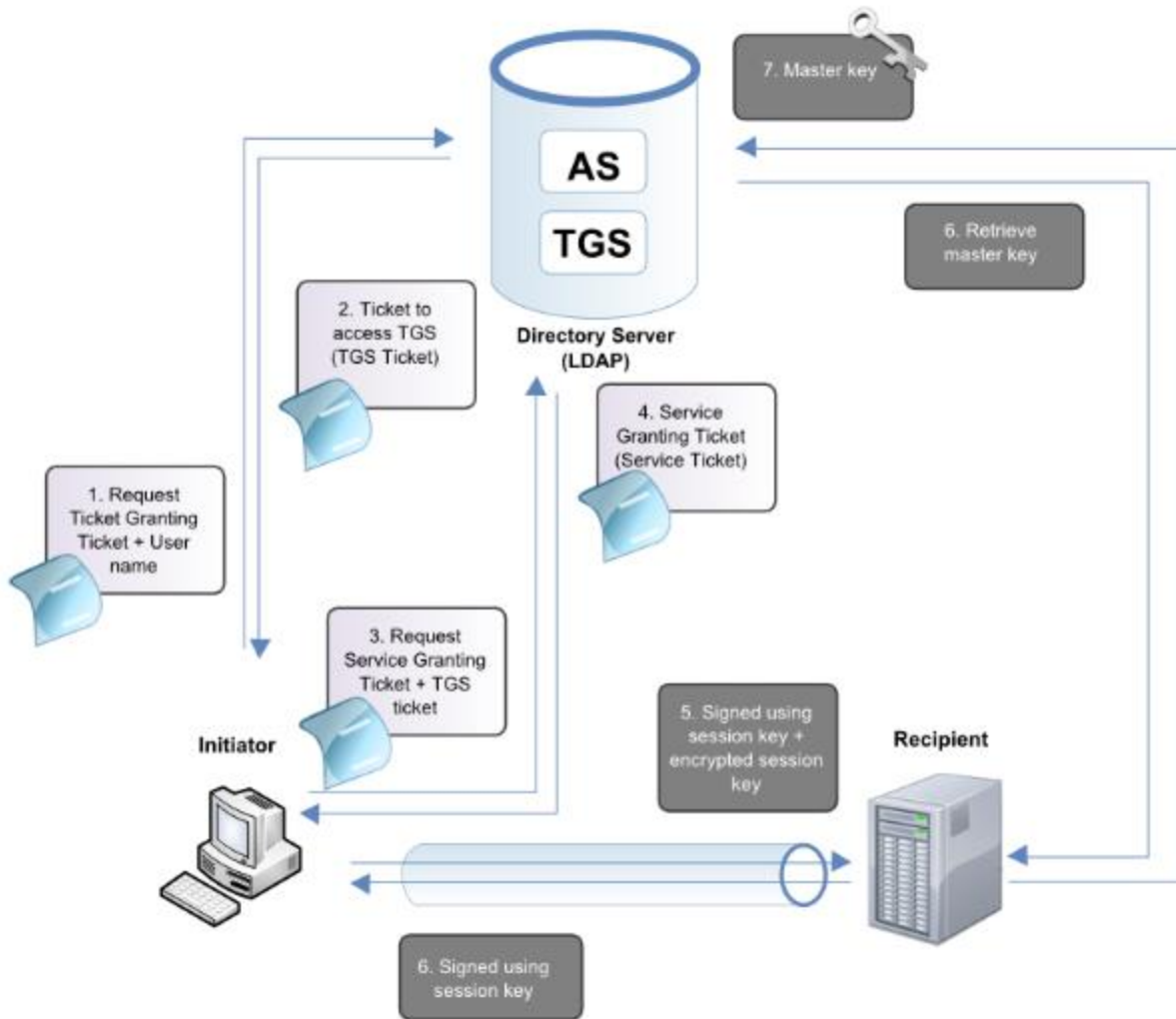












Insecure Connection

https://enterpriseintegrator:9443

Your connection is not secure

The owner of enterpriseintegrator has configured their website improperly. To protect your information from being stolen, Firefox has not connected to this website.

[Learn more...](#)

[Go Back](#) [Advanced](#)

Report errors like this to help Mozilla identify and block malicious sites

New Registry Resource

Registry Resource
Create a new Registry Resource

Resource Name

Artifact Name

Template

Registry

Registry path

Save resource in

[Create new Project...](#)

Working Sets

Add project to working sets

Working Sets

WS-Policy for Service

▼ Security for the service

Basic Scenarios

- [UsernameToken](#)
- [Non-repudiation](#)
- [Integrity](#)
- [Confidentiality](#)

User Roles

Advanced Scenarios

- [Sign and Encrypt - X509 Authentication](#)
- [Sign and Encrypt - Anonymous clients](#)
- [Encrypt only - Username Token Authentication](#)
- [Sign and Encrypt - Username Token Authentication](#)
- [SecureConversation - Sign only - Service as STS - Bootstrap policy - Sign and Encrypt , X509 Authentication](#)
- [SecureConversation - Encrypt only - Service as STS - Bootstrap policy - Sign and Encrypt , X509 Authentication](#)
- [SecureConversation - Sign and Encrypt - Service as STS - Bootstrap policy - Sign and Encrypt , X509 Authentication](#)
- [SecureConversation - Sign Only - Service as STS - Bootstrap policy - Sign and Encrypt , Anonymous clients](#)
- [SecureConversation - Sign and Encrypt - Service as STS - Bootstrap policy - Sign and Encrypt , Anonymous clients](#)

User Roles

User Roles:

Get Roles from Server

URL:

Username:

Password:

Role name pattern (* for all):

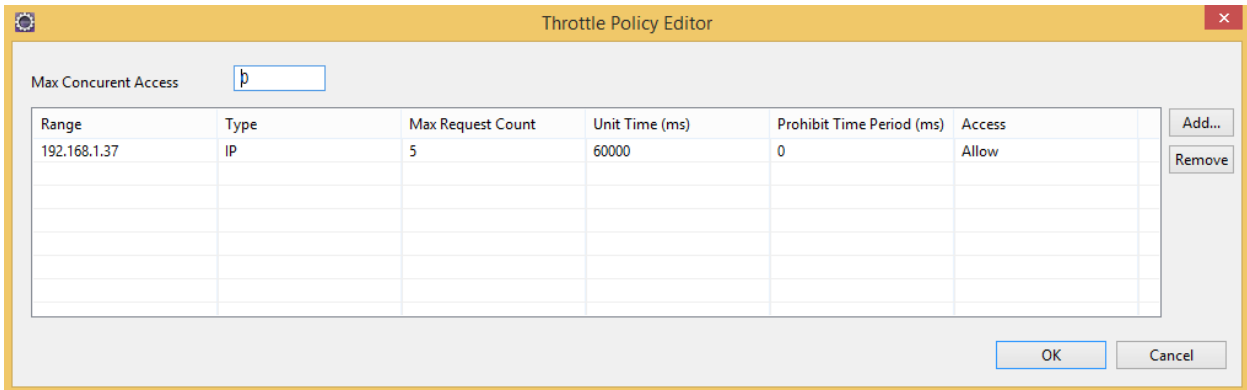
Roles:

Name	
<input type="checkbox"/> admin	
<input checked="" type="checkbox"/> consumer	
<input type="checkbox"/> Internal/everyone	
<input checked="" type="checkbox"/> public	
<input type="checkbox"/> publisher	

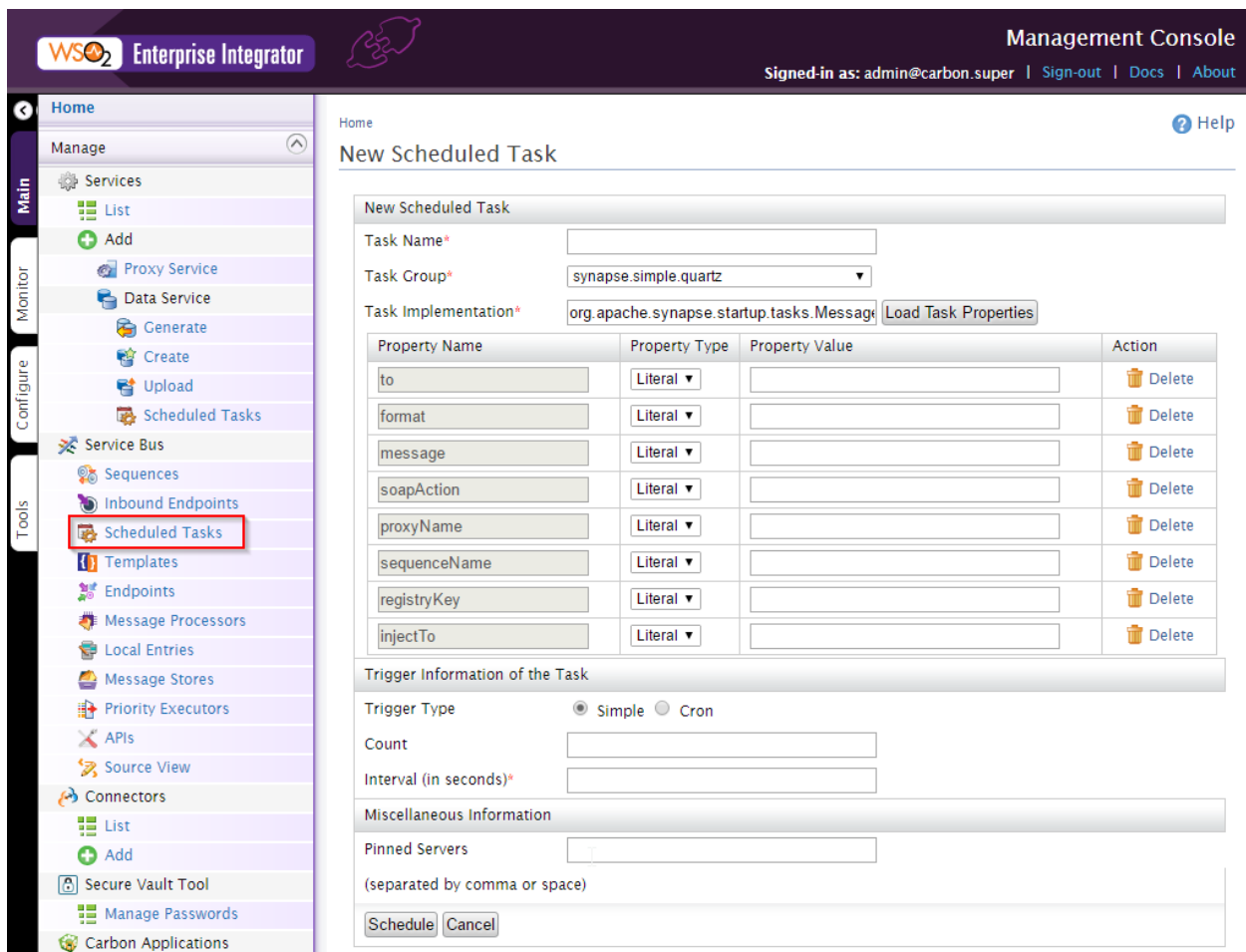
Markers Properties Servers Data Source Explorer Snippets

ProxyService

Property	Value
Out Sequence On Error	
Parameters	
Service Parameters	
Reliable Messaging	
Reliable Messaging Enabled	false
Security	
Service Policies	Proxy Service Policy
Security Enabled	true
WSDL	
WsdI Type	NONE



Chapter 8: Tasks Scheduling



New Scheduled Task

New Scheduled Task

Task Name*

Task Group*

Task Implementation*

Property Name	Property Type	Property Value	Action
<input type="text" value="City"/>	<input type="text" value="Literal"/>	<input type="text" value="Seville"/>	<input type="button" value="Delete"/>
<input type="text" value="IATA code"/>	<input type="text" value="Literal"/>	<input type="text" value="SVQ"/>	<input type="button" value="Delete"/>
<input type="text" value="OACI code"/>	<input type="text" value="Literal"/>	<input type="text" value="LEZL"/>	<input type="button" value="Delete"/>
<input type="text" value="Arrivals"/>	<input type="text" value="XML"/>	<pre> <Arrivals> <Arrival> <flight>FR 8363</flight> <airline>Ryanair</airline> <origin>(STN) London</origin> <time>4:15 PM</time> <status>Landed</status> </Arrival> <Arrival> <flight>IB 5165</flight> <airline>Iberia</airline> <origin>(LYS) Lyon</origin> <time>9:45 PM</time> <status>Route</status> </Arrival> </Arrivals> </pre>	<input type="button" value="Delete"/>

Trigger information of the Task

Trigger Type Simple Cron

Count

Interval (in seconds)*

Miscellaneous Information

Pinned Servers

(separated by comma or space)

Chapter 9: WSO2 Enterprise Integration Logging

Quality of Service Configuration

Specific Configuration

<input type="button" value="Edit"/>	<input type="button" value="Disable Statistics"/>
<input type="button" value="Redeploy"/>	<input style="border: 2px solid red;" type="button" value="Enable Tracing"/>

Select	Sequence Name	Actions
<input type="checkbox"/>	fault	Enable Statistics Enable Tracing Edit Delete
<input type="checkbox"/>	FaultSequence	Enable Statistics Enable Tracing Edit Delete

Sequence [switch to source view](#)

Sequence Name*

On Error Sequence

Configuration

- Extension
- Agent
- Advanced
- Filter
- Transform
- Core

Drop

Call

Sequence

Enqueue

Log

Property

Enrich

Event

Respond

Call Template

Send

Loopback

Root Add Child

Property

PayloadFactory

Respond

Palette

Mediators

- Call
- CallTemplate
- Drop
- Log
- LoopBack
- Property

PROPERTY
set variable

P-FACTORY
change message

RESPOND
respond

Log Mediator



Log Category



Log level

Log Separator






Properties of the Log mediator

 Add Property

Type	Date	Log Message	
	2017-04-20 21:56:33,548	To: /services/My1stProxy.My1stProxyHttpSoap12Endpoint, WSAction: urn:mediate, SOAPAction: urn:mediate, MessageID: urn:uuid:a4d33f67-953c-45a1-8555-02042e8fec7f, Direction: request, Envelope: <?xml version='1.0' encoding='utf-8'?><soapenv:Envelope xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope"><soapenv:Body><Isay>How are you?</Isay></soapenv:Body></soapenv:Envelope>	 More

Type	Date	Log Message	
	2017-04-20 21:57:47,802	To: /services/My1stProxy.My1stProxyHttpSoap12Endpoint, WSAction: urn:mediate, SOAPAction: urn:mediate, MessageID: urn:uuid:3f06cb87-906c-40b8-ac32-2d4f5c4a0b76, Direction: request	 More

SOAP Request 1

Raw XML

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header>
    <myHeader>This is the header!</myHeader>
  </soapenv:Header>
  <soapenv:Body/>
</soapenv:Envelope>
```

Type	Date	Log Message	
	2017-04-20 21:41:57,224	myHeader : This is the header!	More

Type	Date	Log Message	
	2017-04-20 21:57:47,802	To: /services/My1stProxy.My1stProxyHttpSoap12Endpoint, WSAction: urn:mediate, SOAPAction: urn:mediate, MessageID: urn:uuid:3f06cb87-906c-40b8-ac32-2d4f5c4a0b76, Direction: request	More

Properties of the Log mediator

Property Name	Property Value	Value/Expression	Action
<input type="text"/>	Value ▾	<input type="text"/>	Delete

Add Property

Type	Date	Log Message	
	2017-04-21 19:27:32,087	flow = step 1	More

Properties of the Log mediator

Property Name	Property Value	Value/Expression	Name Space Editor	Action
flow	Value ▾	step 1		Delete
greetingReceived	Expression ▾	//myGreeting	NameSpaces	Delete

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <myGreeting>How are you?</myGreeting>
  </soapenv:Body>
</soapenv:Envelope>
```

Type	Date	Log Message	
	2017-04-21 20:00:24,130	flow = step 1, greetingReceived = How are you?	More

Properties of the Log mediator

Property Name	Property Value	Value/Expression	Name Space Editor	Action
flow	Value ▾	step 1		Delete
greetingReceived	Expression ▾	//myGreeting	NameSpaces	Delete
MyProperty	Expression ▾	get-property('MyProperty')	NameSpaces	Delete

Type	Date	Log Message	
	2017-04-21 20:16:18,595	flow = step 1, greetingReceived = How are you?, MyProperty = This is a property value	More

Chapter 10: WSO2 Enterprise Integration Testing

Services						
<input type="checkbox"/>	city_DataService	data_service	Unsecured	WSDL1.1	WSDL2.0	Try this service
<input type="checkbox"/>	echo	axis2	Unsecured	WSDL1.1	WSDL2.0	Try this service
<input type="checkbox"/>	My1stDataService	data_service	Unsecured	WSDL1.1	WSDL2.0	Try this service
<input type="checkbox"/>	My1stDataServiceRest	data_service	Unsecured	WSDL1.1	WSDL2.0	Try this service

Service Dashboard (My1stDataServiceRest)

Service Details		Client Operations	
Service Name	My1stDataServiceRest	Try this service	
Service Description		Generate Axis2 Client	
Service Group Name	My1stDataServiceRest	WSDL1.1	WSDL2.0
Deployment Scope	request		
Service Type	data_service		
		Endpoints	
		http://UgetLaptop:8280/services/My1stDataServiceRest	
		https://UgetLaptop:8243/services/My1stDataServiceRest	
		local:///services/My1stDataServiceRest/	

My1stDataServiceRest

Using Endpoint - SOAP12Endpoint

Private proxy protocol will be attempted as cross-domain browser restrictions might be enforced for this endpoint. [Hide](#)

[Try an alternate http](#) [Hide](#)

citiesFromCountryXML

Send

Request

```

1 <body>
2 <p:citiesFromCountryXML xmlns:pa="http://www.my1stdataservice.com">
3 <!--Exactly 1 occurrence-->
4 <xs:countryCode xmlns:xs="http://www.my1stdataservice.com"?></xs:countryCode>
5 <!--Exactly 1 occurrence-->
6 <xs:population xmlns:xs="http://www.my1stdataservice.com"?></xs:population>
7 </p:citiesFromCountryXML>
8 </body>

```

Response

```

1
2

```

All Operations

- [_getcities](#) +
- [citiesFromCountryXML](#) +
- [citiesXML](#) +
- [deleteCity](#) +
- [insertCity](#) +
- [updateCity](#) +

My1stDataServiceRest

Using Endpoint - SOAP12Endpoint

Select a different Endpoint

Select an endpoint :

Change the address for the selected endpoint :

citiesFromCountryXML

Send

Request

```

1 <body>
2 <p:citiesFromCountryXML xmlns:pa="http://www.my1stdataservice.com">
3 <!--Exactly 1 occurrence-->
4 <xs:countryCode xmlns:xs="http://www.my1stdataservice.com">AFG</xs:countryCode>
5 <!--Exactly 1 occurrence-->
6 <xs:population xmlns:xs="http://www.my1stdataservice.com">200000</xs:population>
7 </p:citiesFromCountryXML>
8 </body>

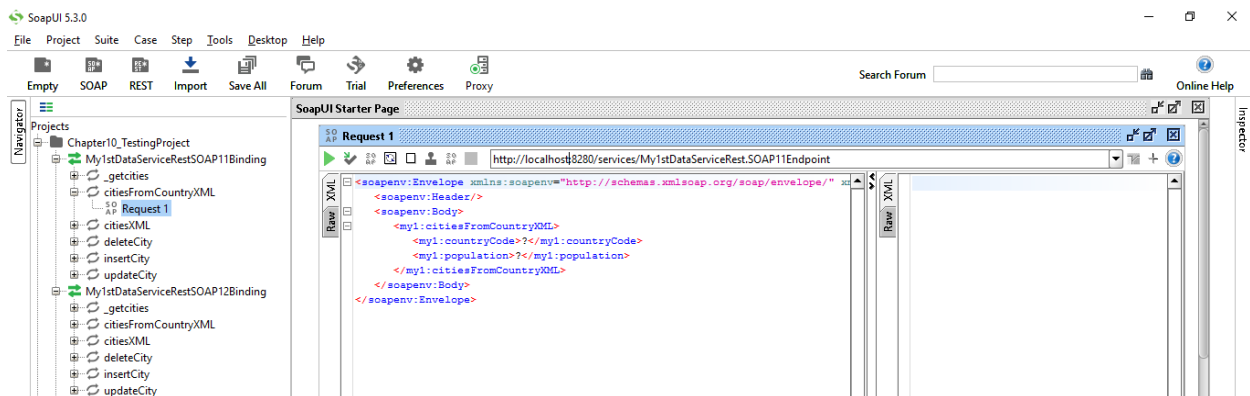
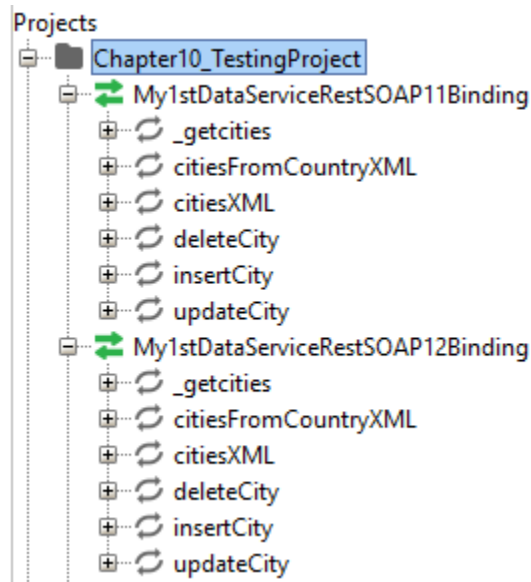
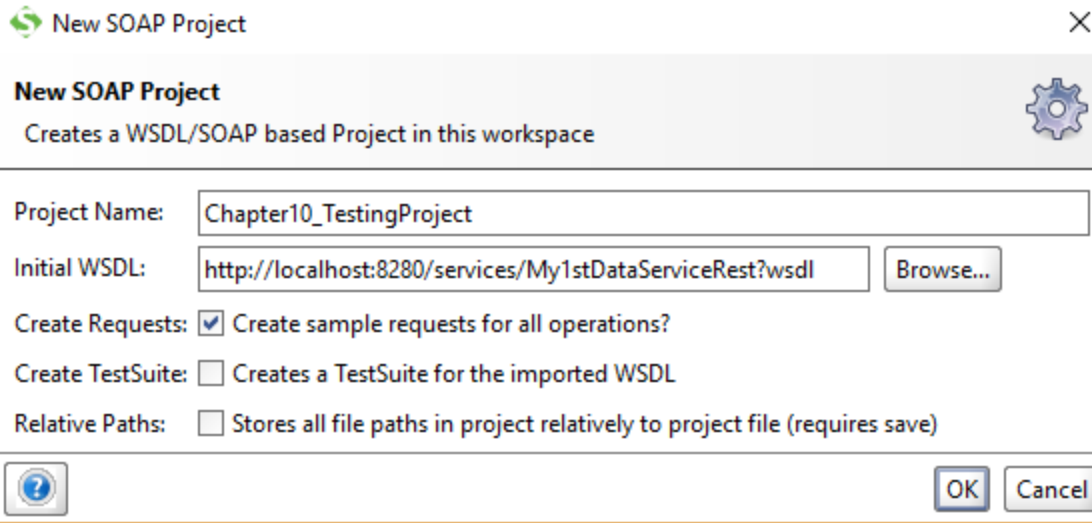
```

Response

```

1 <Cities xmlns="http://www.my1stdataservice.com">
2 <City>
3 <CityID>3</CityID>
4 <CityName>Herat</CityName>
5 <CountryCode>AFG</CountryCode>
6 <District>Herat</District>
7 <Population>186800</Population>
8 </City>
9 <City>
10 <CityID>4</CityID>
11 <CityName>Nazar-e-Sharif</CityName>
12 <CountryCode>AFG</CountryCode>
13 <District>Balkh</District>
14 <Population>127800</Population>
15 </City>
16 </Cities>

```



SoapUI 5.3.0

File Project Suite Case Step Tools Desktop Help

Empty SOAP REST Import Save All Forum Trial Preferences Proxy

Search Forum Online Help

Projects

- Chapter10_TestingProject
 - My1stDataServiceRestSOAP11Binding
 - Request 1

Request 1

Request

```

<?xml version='1.0' encoding='UTF-8'>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Header/>
  <soap:Body>
    <my1:citiesFromCountryXML>
      <my1:countryCode>AFG</my1:countryCode>
      <my1:population>20000</my1:population>
    </my1:citiesFromCountryXML>
  </soap:Body>
</soap:Envelope>


```


Response

```

<?xml version='1.0' encoding='UTF-8'>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Header/>
  <soap:Body>
    <Cities xmlns="http://www.my1stdataservice.com">
      <City>
        <CityID>3</CityID>
        <CityName>Herat</CityName>
        <CountryCode>AFG</CountryCode>
        <District>Herat</District>
        <Population>186800</Population>
      </City>
      <City>
        <CityID>4</CityID>
        <CityName>Mazar-e-Sharif</CityName>
        <CountryCode>AFG</CountryCode>
        <District>Balkh</District>
        <Population>127800</Population>
      </City>
    </Cities>
  </soap:Body>
</soap:Envelope>


```

 New REST Service from URI ✕

New REST Service from URI 

Creates a new REST service in this project

URI:

 OK Cancel

SoapUI 5.3.0

File Project Suite Case Step Tools Desktop Help

Empty SOAP REST Import Save All Forum Trial Preferences Proxy

Search Forum

Online Help

Request 1

Method: GET, Endpoint: http://localhost:8280, Resource: /services/My1stDataServiceRest/cities

Request Properties

Property	Value
Name	Request 1
Description	
Encoding	
Endpoint	http://localhost:8280
Timeout	
Bind Address	
Follow Redirects	true
Username	
Password	

SoapUI log http log jetty log error log wsrm log memory log

Header	Value

A... **Headers...** Attachments... Representation... JMS Hea... JMS Propertie...

Add HTTP Header

Specify name of header to add

Accept

Acceptar Cancelar

Header	Value
Accept	application/json

Au... Headers ... Attachments... Representations... JMS Head... JMS Property...

Request 1

Method: GET | Endpoint: http://localhost:8280 | Resource: /services/My1stDataServiceRest/cities | Parameters:

Name	Value	Style	Level
Accept	application/json		

```

1 [{"Cities": {"City": [
2   {
3     "CityID": "1",
4     "Population": "1780000",
5     "CityNAME": "Kabul",
6     "CountryCode": "AFG",
7     "District": "Kabol"
8   }
9 },
10  {
11    "CityID": "2",
12    "Population": "237500",
13    "CityNAME": "Qandahar",
14    "CountryCode": "AFG",
15    "District": "Qandahar"
16  }
17 },
18  {
19    "CityID": "3",
20    "Population": "186800",
21    "CityNAME": "Herat",
22    "CountryCode": "AFG",
23    "District": "Herat"
24  }
25 },
26  {
27    "CityID": "4",
28    "Population": "127800",
29    "CityNAME": "Mazar-e-Sharif",
30    "CountryCode": "AFG",
31    "District": "Balkh"
32  }
33 }
34 ]

```

Headers (8) | Attachments (0) | SSL Info | Representations (1) | Schema (conflicts) | JMS (0)

response time: 151ms (11067 bytes) | 1:1

Empty SOAP REST Import Save All Forum Trial Prefer

Navigator

Projects

- Chapter10_TestingPro
 - My1stDataService
 - _getcities
 - citiesFromCo
 - Request 1
 - citiesXML
 - deleteCity
 - insertCity
 - updateCity
 - My1stDataService
 - http://localhost:8

Show Project View	Intro
Add WSDL	Ctrl-U
Add WADL	Ctrl-F
Import Swagger	
Export Swagger	
Import from SwaggerHub	
New REST Service from URI	
Launch TestRunner	
Launch LoadTestRunner	
Launch HTTP Monitor	
Launch Security TestRunner	
New TestSuite	Ctrl-T
New SOAP MockService	Ctrl-O
New REST MockService	Ctrl-R
Rename	F2
Remove	Suprimir
Reload Project	F5
Resolve	
Close Project	
Save Project	Ctrl-S
Save Project As	Ctrl+Mayús-S
Export Project	
Import Test Suite	
Import Mock Service	
Deploy As War	
Start HermesJMS	
Monitor APIs	

New MockService ×



Specify name of MockService

My1stDataServiceMockService

Aceptar

Cancelar

Projects

- Chapter10_TestingProject
 - My1stDataServiceRestSOAP11Binding
 - _getcities
 - citiesFromCountryXML
 - Request
 - citiesXML
 - deleteCity
 - insertCity
 - updateCity
 - My1stDataServiceMockService

Show Request Editor	Intro
✓ Add to TestCase	Ctrl+Alt-A
➤ Add to MockService	
Add as MockResponse Step	
👤 Clone Request	F9
Rename	F2
Delete	Suprimir

Add to MockService ×



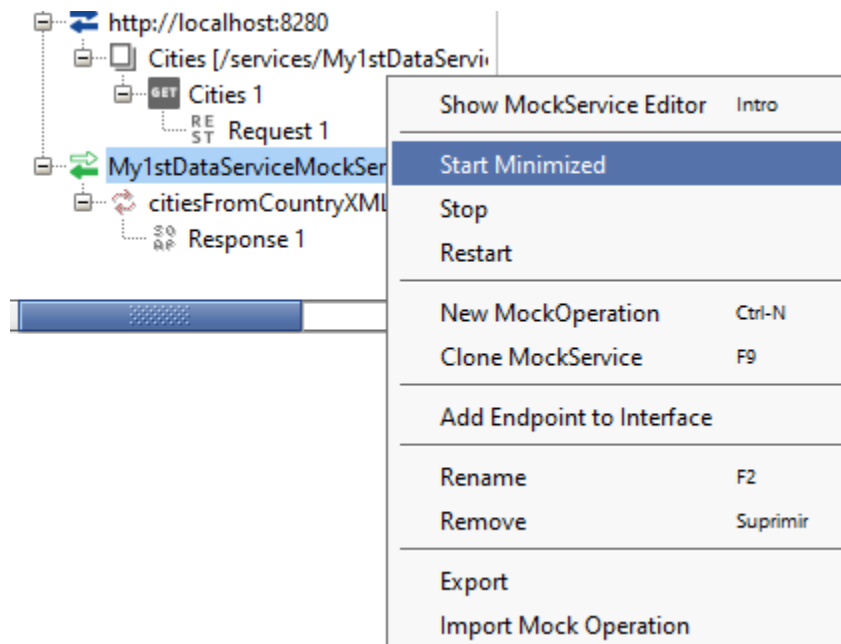
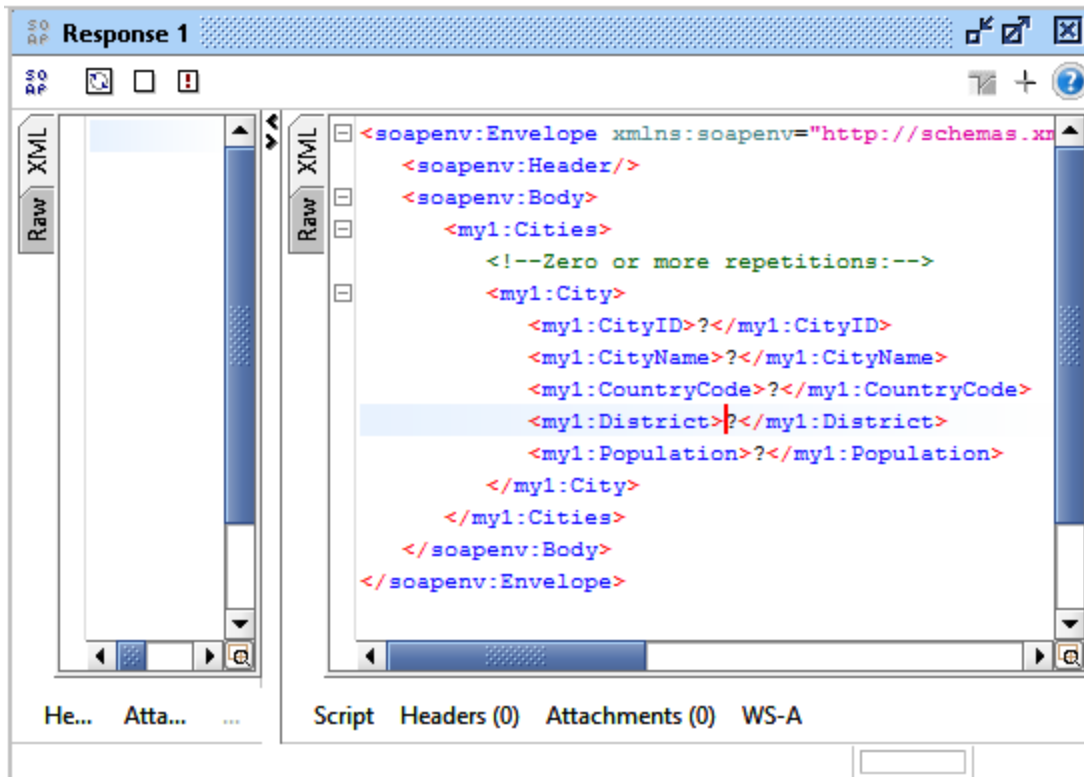
Select MockService for MockOperation

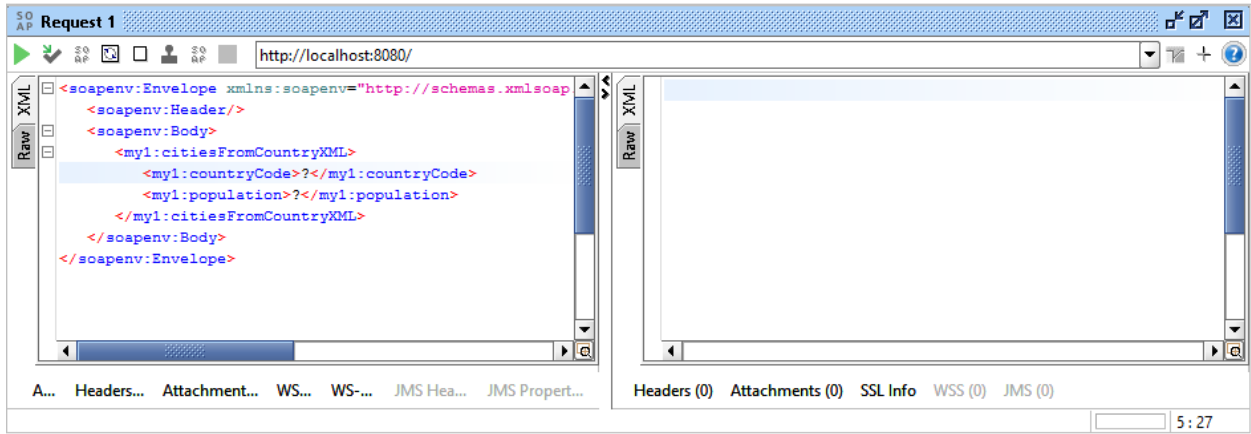
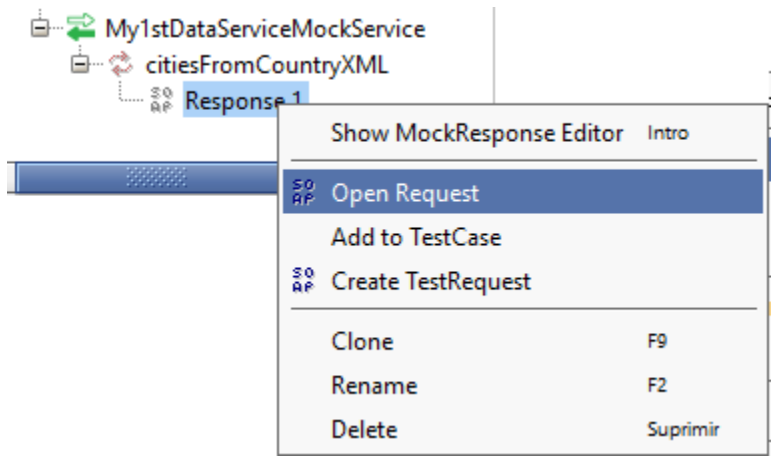
My1stDataServiceMockService

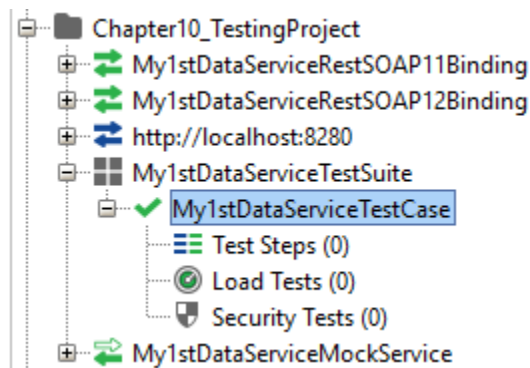
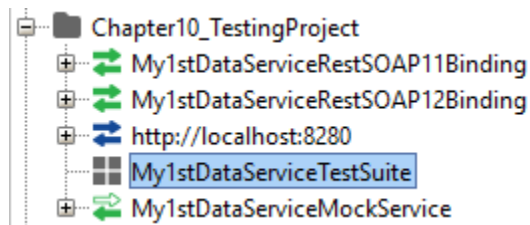
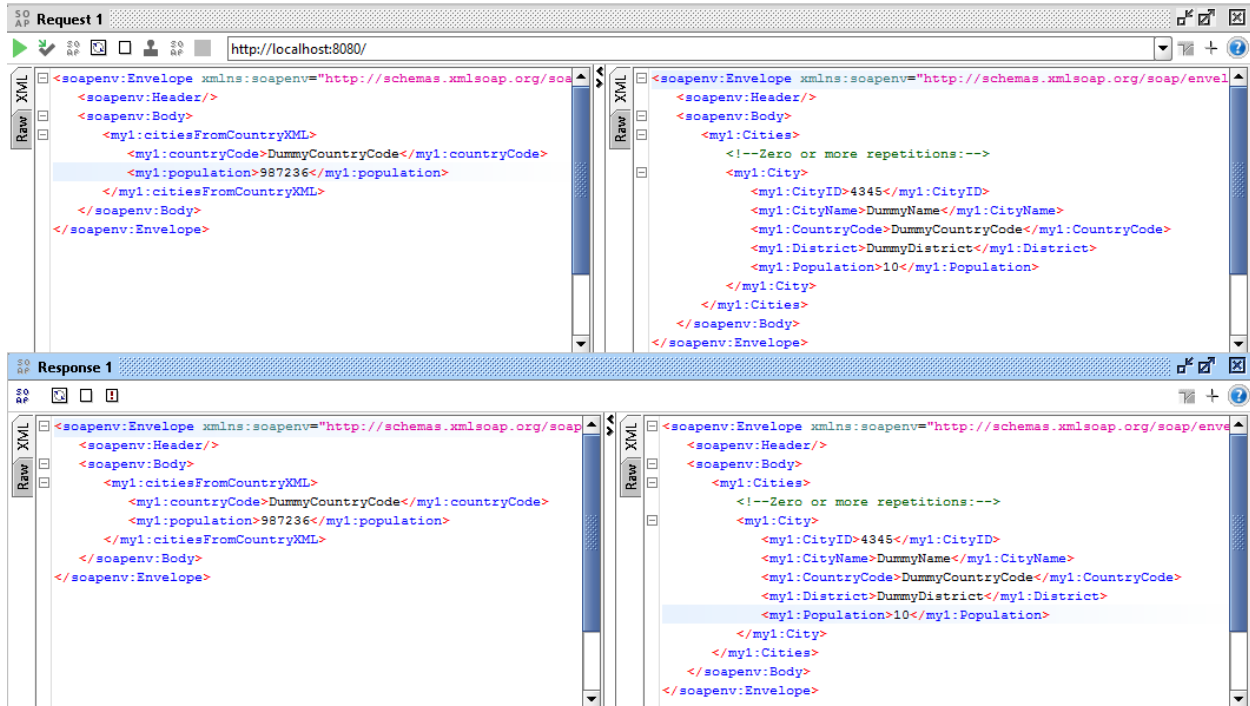
Aceptar

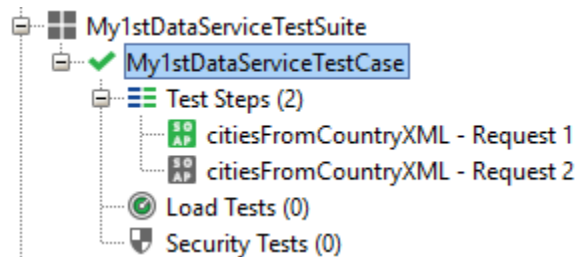
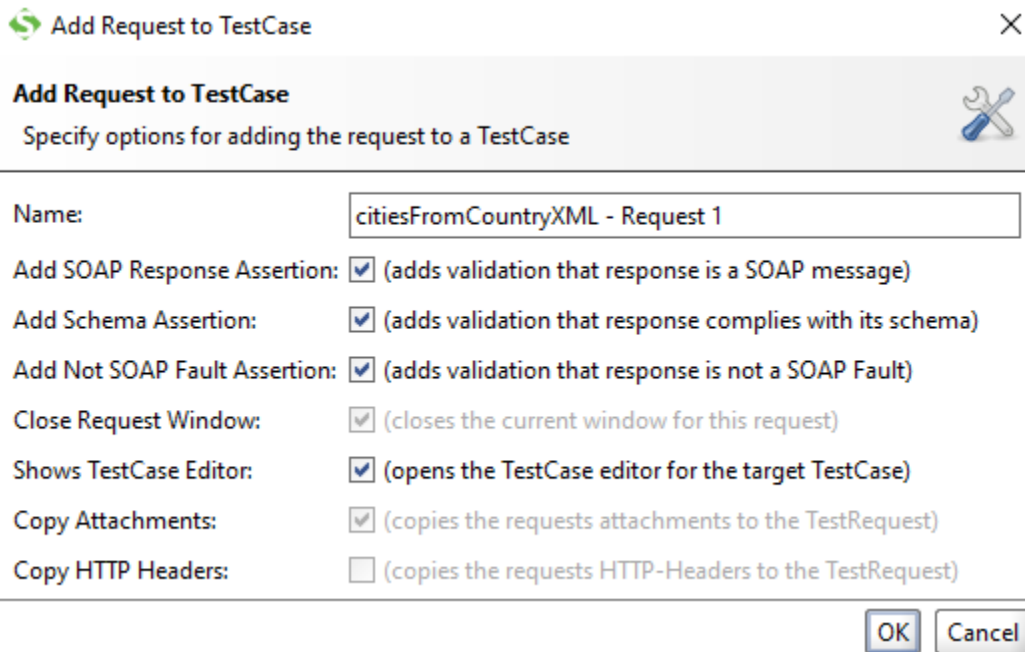
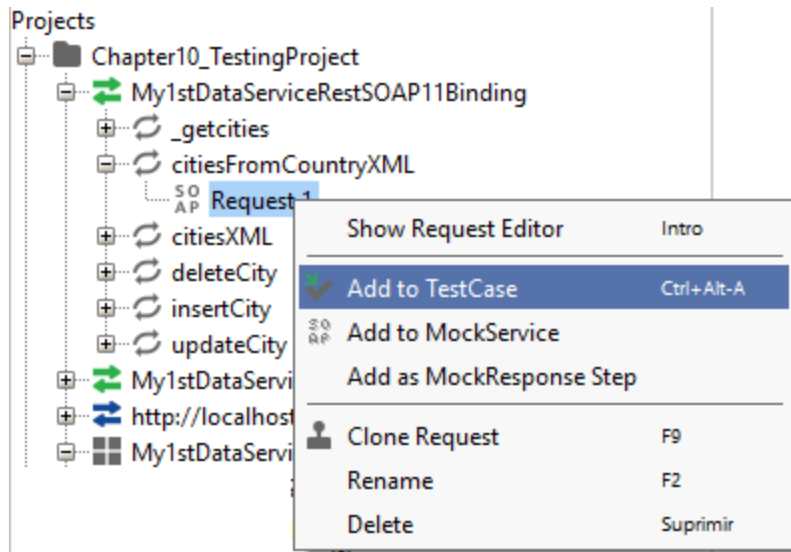
Cancelar

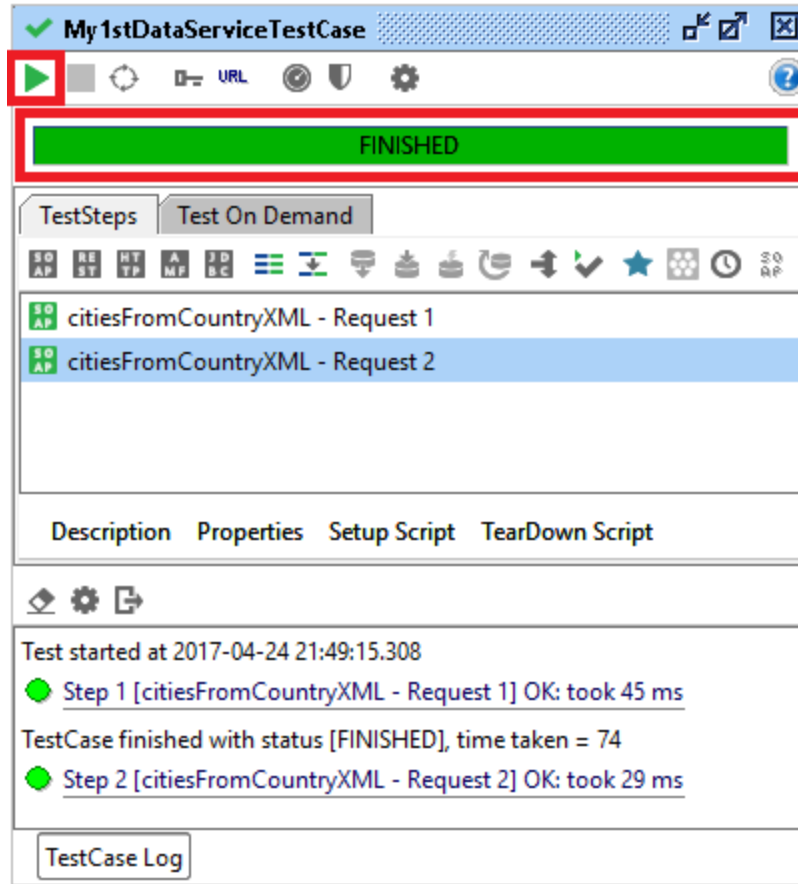
- My1stDataServiceMockService
 - citiesFromCountryXML
 - Response 1











Chapter 11: Integrating with VFS

REST **Request 1** [Icons]

Method: POST Endpoint: http://localhost:8280 Resource: /vfs/writeDynamic Parameters: []

Name	Value	Style	Level
------	-------	-------	-------

Required: Sets if parameter is required

Media Type: application/json Post QueryS

```
{
  "path": "C:/Temp/",
  "filename": "flights.json",
  "content": {
    "flights": {
      "flight": {
        "company": "PacktAir",
        "time": "10:30",
        "price": "300"
      }
    }
  }
}
```

1 [{"status": "File created"}]

... Hea... Attach... Represent... JMS ... JMS Pro... Head... Attach... SS... Represent... Schema (... J... response time: 54ms (25 bytes) 1:1

WSO2 Enterprise Integrator Management Console
Signed-in as: admin@carbon.super | Sign-out | Docs | About

Home > Manage > Connectors > Add Help

Add Connector

Upload Connector

Connector (.zip)

Home

Manage

Main

Monitor

Configure

Tools

Connectors

Services

List

Add

Proxy Service

Data Service

Generate

Create

Upload

Scheduled Tasks

Service Bus

Sequences

Inbound Endpoints

Scheduled Tasks

Templates

Endpoints

Message Processors

Local Entries

Message Stores

Priority Executors

APIs

Source View

WSO2 Enterprise Integrator Management Console
Signed-in as: admin@carbon.super | Sign-out | Docs | About

Home > Manage > Connectors > List Help

Connector List

Library Name	Package	Description	Status	Actions
fileconnector	org.wso2.carbon.connector	wso2 file connector	Disabled	<input type="button" value="Delete"/> <input type="button" value="Download"/>

Home

Manage

Main

Monitor

Services

List

Add

Proxy Service

Data Service

Generate

The screenshot displays a REST client interface for 'Request 1'. The request details are as follows:

Method	Endpoint	Resource	Parameters
POST	http://localhost:8280	/flights/fileConnector	

The request body is a JSON object:

```
{
  "path": "C:/Temp/",
  "filename": "flights.json",
  "content": {
    "flights": {
      "flight": {
        "company": "PacktAir",
        "time": "10:30",
        "price": "300"
      }
    }
  }
}
```

The response details are:

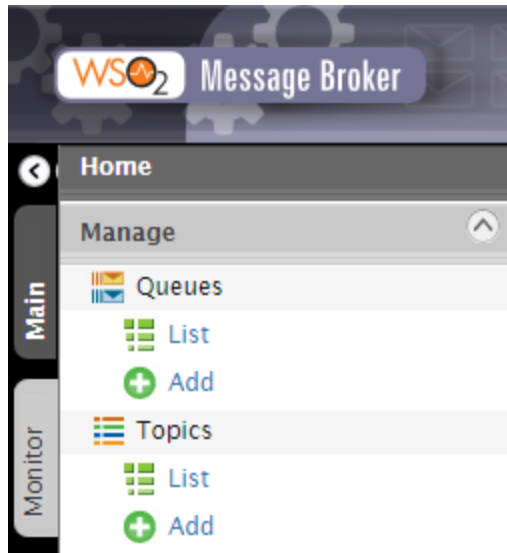
Status	Host	Accept-Encoding	Content-Type	Date	Transfer-Encoding	Connection
HTTP/1.1 200 OK	localhost:8280	gzip, deflate	application/json; charset=UTF-8	Tue, 05 Sep 2017 19:00:03 GMT	chunked	Keep-Alive

The response body is a JSON object:

```
{"status": "File updated"}
```

At the bottom left, the status is 'response time: 16ms (25 bytes)'. At the bottom right, the SSL Info tab is visible with a '1:1' indicator.

Chapter 12: Integrating with JMS - WSO2 EI Message Brokering



Home > Manage > Queues > Add

[? Help](#)

Add Queue

Enter Queue Name		
Queue Name:*	<input type="text" value="My1stQueue"/>	
Permissions		
Enter role name pattern to search (* for all)	<input type="text" value="*"/>	<input type="button" value="Search"/>
Role	Consume	Publish
Internal/everyone	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="button" value="Add Queue"/>		

Home > Queue List

[? Help](#)

Queue List


Name	Message Count	View	Operations	Actions
My1stQueue	0	Browse	Publish Messages	Purge Messages Delete

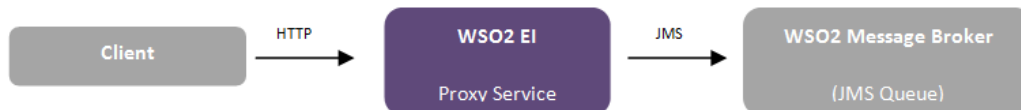
Send Message

Message Header Fields			
Correlation ID:	<input type="text"/>	JMS Type:	<input type="text"/>
Number of Messages:*	<input type="text" value="1"/>		

Message Body	
<pre><message>Here I go!</message></pre>	

Queue Content My1stQueue

Content Type	Message ID	Redelivered	Timestamp	Properties	Message Summary
 Text	ID:e4969fc7-1721-3efe-9ef5-c2c536b7a67b	false	1494351572025	JMS_QPID_DESTTYPE = 1,	<message>Here I more..



Request 1

http://localhost:8280/services/My1stProxyPublisher

```

<?xml version='1.0' encoding='UTF-8'><soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <message>How are you?</message>
  </soapenv:Body>
</soapenv:Envelope>

```

Header	Value
Date	Wed, 10 May 2017 18:59:18 GMT
Transfer-Encoding	chunked
#status#	HTTP/1.1 202 Accepted
Connection	Keep-Alive

Auth Headers (0) Attachments (0) WS-A WS-RM JMS Headers JMS Property (0)

response time: 115ms (0 bytes)

Headers (4) Attachments (0) SSL Info WSS (0) JMS (0)

1:1

```

[2017-05-10 20:59:18,579] [] INFO - LogMediator To: /services/My1stProxyPublisher
, WSAction: urn:mediate, SOAPAction: urn:mediate, MessageID: urn:uuid:8fb98897-583
2-4ee3-8993-2da79505822a, Direction: request, Envelope: <?xml version='1.0' encodi
ng='utf-8'><soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envel
ope/"><soapenv:Body>
  <message>How are you?</message>
</soapenv:Body></soapenv:Envelope>

```

Queue Content My1stQueue

Content Type	Message ID	Redelivered	Timestamp	Properties	Message Summary
Text	ID:a77a0370-9fd8-3289-aa15-f2082379f6b7	false	1494442746437	JMS_QPID_DESTTYPE = 1,	<message>Here I more..
Text	ID:901b3e21-5262-33f4-9912-35bc064684b4	false	1494442758662	SOAPAction = "urn:mediate", Accept-Encoding = gzip,deflate, Connection = Keep-Alive, Content-Length = 192, Content-Type = text/xml;charset=UTF-8, Host = localhost:8280, User-Agent = Apache-HttpClient/4.1.1 (java 1.5), JMS_QPID_DESTTYPE = 1,	<?xml version=' more..

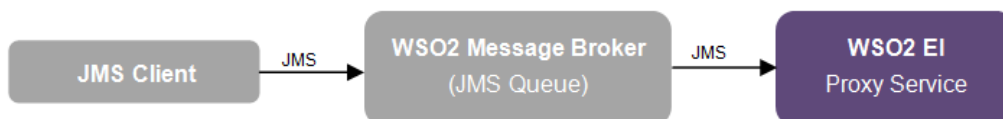
Home > Message Content

Message Content

```


<?xml version='1.0' encoding='UTF-8'><soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"><soapenv:Body>
  <message>How are you?</message>
</soapenv:Body></soapenv:Envelope>

```




```
<!--Uncomment this and configure as appropriate for JMS transport support with WS02 MB 2.x.x -->  
<!--transportReceiver name="jms" class="org.apache.axis2.transport.jms.JMSListener">
```

Add Proxy Service

Design  [switch to source view](#)

Step 1 of 3 - Basic Settings

Proxy Service Name*

General Settings

Publishing WSDL	<input type="text" value="None"/>
Service Parameters	+ Add Parameter
Service Group	<input type="text"/>
Do Not load service on startup	<input type="checkbox"/>
Pinned servers (separated by comma or space)	<input type="text"/>
Service Description	<input type="text"/>

Transport Settings

http	<input type="checkbox"/>
https	<input type="checkbox"/>
jms	<input checked="" type="checkbox"/>
local	<input type="checkbox"/>

Request 1

http://localhost:8280/services/My1stProxyPublisher.My1stProxyPublisherHttpSoap12Endpoint

```

<?xml version='1.0' encoding='utf-8'><soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope">
  <soap:Header/>
  <soap:Body>
    <my1:insertCity>
      <my1:name>MyQueuedCity</my1:name>
      <my1:countryCode>AFG</my1:countryCode>
      <my1:district>2389876</my1:district>
      <my1:population>102398</my1:population>
    </my1:insertCity>
  </soap:Body>
</soap:Envelope>

```

Header	Value
Date	Mon, 15 May 2017 17:56:44 GMT
Transfer-Encoding	chunked
#status#	HTTP/1.1 202 Accepted
Connection	Keep-Alive

Auth Headers (0) Attachments (0) WS-A WS-RM JMS Headers JMS Property (0)

response time: 60ms (0 bytes)

```

[2017-05-15 19:56:44,260] [] INFO - LogMediator To: /services/My1stProxyPublisher.My1stProxyPublisherHttpSoap12Endpoint, WSAction: urn:insertCity, SOAPAction: urn:insertCity, MessageID: urn:uuid:ece942ec-f932-474c-9eeb-8e2bea1c1cd6, Direction: request, Status = Sending message to My1stQueue, Envelope: <?xml version='1.0' encoding='utf-8'><soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns:my1="http://www.my1stdataservice.com"><soap:Body>
  <my1:insertCity>
    <my1:name>MyQueuedCity</my1:name>
    <my1:countryCode>AFG</my1:countryCode>
    <my1:district>2389876</my1:district>
    <my1:population>102398</my1:population>
  </my1:insertCity>
</soap:Body></soap:Envelope>

```

Home > Queue Content

Help

Queue Content My1stQueue

Content Type	Message ID	Redelivered	Timestamp	Properties	Message Summary
Text	ID:c82ce371-28a5-390b-825a-052dda8202c8	false	1494871004299	SOAPAction = urn:insertCity, Accept-Encoding = gzip,deflate, Connection = Keep-Alive, Content-Length = 421, Content-Type = application/soap+xml;charset=UTF-8;action="urn:insertCity", Host = localhost:8280, User-Agent = Apache-HttpClient/4.1.1 (java 1.5), JMS_QPID_DESTTYPE = 1,	<?xml version='more..

Home > Message Content

Message Content

```

<?xml version='1.0' encoding='UTF-8'><soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns:my1="http://www.my1stdataservice.com"><soap:Body>
  <my1:insertCity>
    <my1:name>MyQueuedCity</my1:name>
    <my1:countryCode>AFG</my1:countryCode>
    <my1:district>2389876</my1:district>
    <my1:population>102398</my1:population>
  </my1:insertCity>
</soap:Body></soap:Envelope>

```

Queue Content My1stQueue

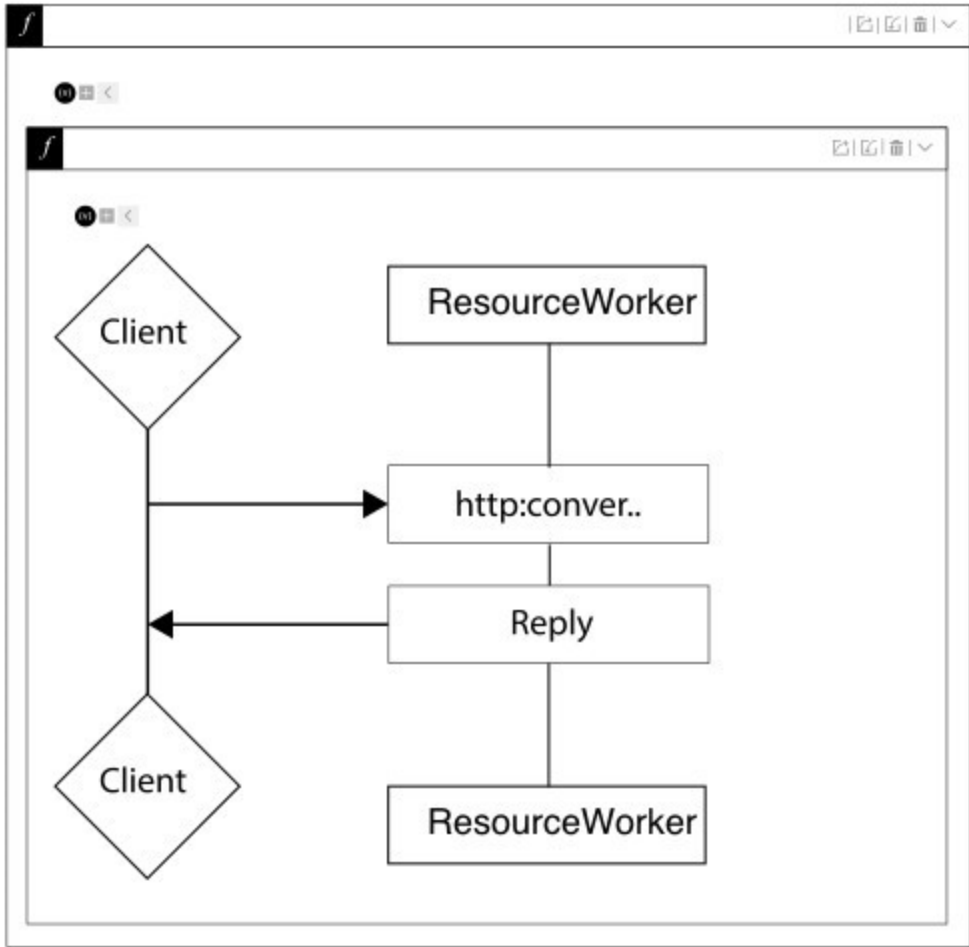
Content Type	Message ID	Redelivered	Timestamp	Properties	Message Summary
--------------	------------	-------------	-----------	------------	-----------------

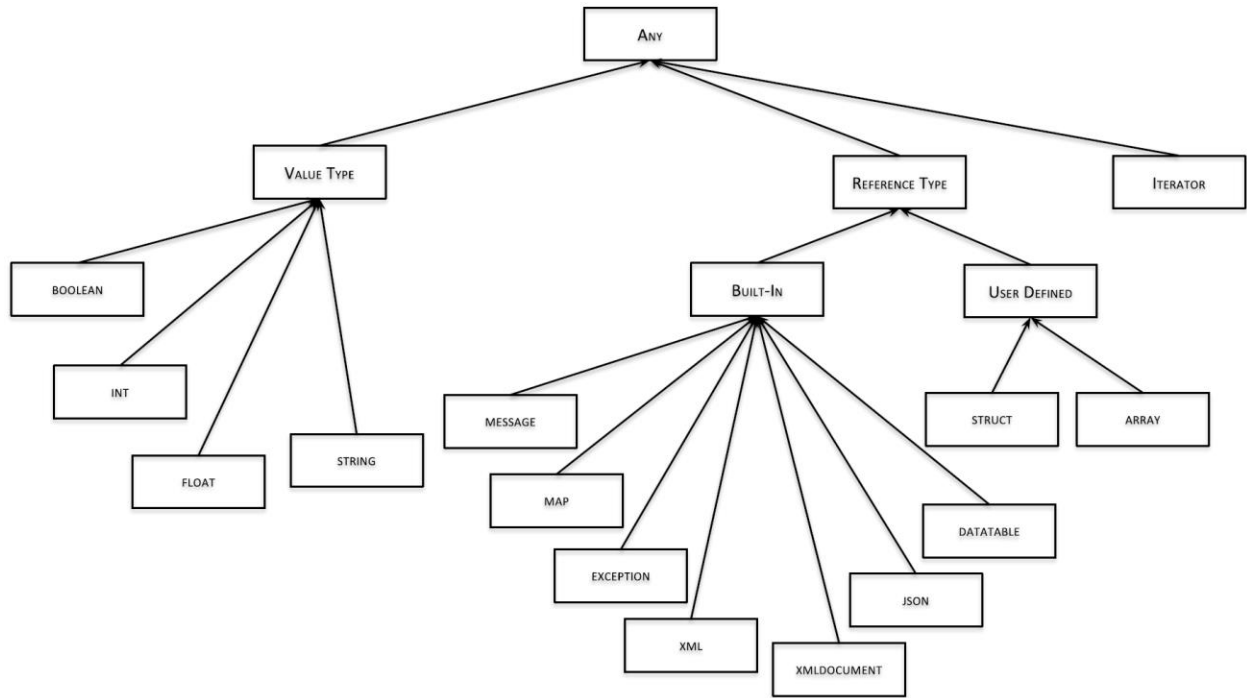
```
[2017-05-15 20:16:38,356] [] INFO - ServiceTaskManager Task manager for service : My1stPr
oxyConsumer [re-]initialized
[2017-05-15 20:16:38,834] [] INFO - LogMediator To: , WSAction: urn:insertCity, SOAPActio
n: urn:insertCity, MessageID: ID:c82ce371-28a5-390b-825a-052dda8202c8, Direction: request,
Status = Consuming message from My1stQueue and sending to My1stDataService Envelope: <?x
ml version='1.0' encoding='utf-8'?><soap:Envelope xmlns:soap="http://www.w3.org/2003/05/so
ap-envelope" xmlns:my1="http://www.my1stdataservice.com"><soap:Body>
  <my1:insertCity>
    <my1:name>MyQueuedCity</my1:name>
    <my1:countryCode>AFG</my1:countryCode>
    <my1:district>2389876</my1:district>
    <my1:population>102398</my1:population>
  </my1:insertCity>
</soap:Body></soap:Envelope>
```

```
16
17 • select * from city where name like '%Que%'
18
```

ID	Name	CountryCode	District	Population
100114	MyQueuedCity	AFG	2389876	102398
NULL	NULL	NULL	NULL	NULL

Chapter 13: Introduction to Ballerina





passthroughService.bal x

Constructs

- Service
- Resource
- Function
- Main Function
- Connector
- Action
- Struct
- Worker
- Annotation
- If
- Assignment
- Variable
- Function Invoke
- Return
- Reply
- While
- Break
- Try-Catch
- Throw
- Send
- Receive
- Transform

Current Package

- ballerina.lang.arrays
- ballerina.lang.datatables
- ballerina.lang.jsons
- ballerina.lang.maps
- ballerina.lang.strings

passthroughservice.samples | Imports 1 | Globals 0

```

@http:BasePath { value: "/passthrough" }
passthrough
  @http:GET { }
  passthrough { message m x | + Add Value }
    default
      message response = http:ClientConnector.g...
      reply response
    nyseEP
  
```

```
passthroughService.bal x
1 package passthroughservice.samples;
2
3 import ballerina.net.http;
4
5 @http:BasePath {value: "/passthrough"}
6 service passthrough {
7
8     @http:GET{}
9     resource passthrough (message m) {
10         http:ClientConnector nyseEP = create http:ClientConnector("http://localhost:9090");
11         message response = http:ClientConnector.get(nyseEP, "/nyseStock", m);
12         reply response;
13
14     }
15
16 }
```

```
passthroughService.bal x
1 swagger: '2.0'
2 basePath: /passthrough
3 info:
4     version: 1.0.0
5     title: Sample Service
6 paths:
7     /passthrough:
8         get:
9             operationId: passthrough
10            responses:
11                default:
12                    description: Default Response
13
```

Sample Service 1.0.0

[Base url: /passthrough]

default

GET /passthrough