Sample 700: Introduction to Message Store

- Introduction
- Prerequisites
- Building the sample
- Executing the sample
- Analyzing the output

Introduction

This sample demonstrates the basic functionality of a message store.

Prerequisites

For a list of prerequisites, see Prerequisites to Start the ESB Samples.

Building the sample

The XML configuration for this sample is as follows:

```xml
<!-- Introduction to the Synapse Message Store -->
<definitions xmlns="http://ws.apache.org/ns/synapse">
  <sequence name="fault">
    <log level="full">
      <property name="MESSAGE" value="Executing default 'fault' sequence"/>
      <property name="ERROR_CODE" expression="get-property('ERROR_CODE')"/>
      <property name="ERROR_MESSAGE" expression="get-property('ERROR_MESSAGE')"/>
    </log>
    <drop/>
  </sequence>
  <sequence name="onStoreSequence">
    <log>
      <property name="On-Store" value="Storing message"/>
    </log>
  </sequence>
  <sequence name="main">
    <in>
      <log level="full"/>
      <property name="FORCE_SC_ACCEPTED" value="true" scope="axis2"/>
      <store messageStore="MyStore" sequence="onStoreSequence"/>
    </in>
    <description>The main sequence for the message mediation</description>
  </sequence>
  <messageStore name="MyStore"/>
</definitions>
```

This configuration file synapse_sample_700.xml is available in the `<ESB_HOME>/repository/samples` directory.

To build the sample
1. Start the ESB with the sample 700 configuration. For instructions on starting a sample ESB configuration, see *Starting the ESB with a sample configuration*.

   The operation log keeps running until the server starts, which usually takes several seconds. Wait until the server has fully booted up and displays a message similar to "WSO2 Carbon started in n seconds."

2. Start the Axis2 server. For instructions on starting the Axis2 server, see *Starting the Axis2 server*.

3. Deploy the back-end service **SimpleStockQuoteService**. For instructions on deploying sample back-end services, see *Deploying sample back-end services*.

### Executing the sample

The sample client used here is the **Stock Quote Client**, which can operate in several modes. For further details on this sample client and its operation modes, see *Stock Quote Client*.

#### To execute the sample client

- Run the following command from the `<ESB_HOME>/samples/axis2Client` directory:

```
```

#### Analyzing the output

When you execute the client you will see that the message is dispatched to the main sequence.

In the main sequence, the store mediator will store the `placeorder` request message in the `MyStore` message store. Before storing the request, the message store mediator will invoke the `onStoreSequence` sequence.

Analyze the output debug messages and you will see the following log:

```
```

You can then use the JMX view of the Synapse message store by using the jconsole in order to view the stored messages and delete them.