# **Work Document: Integration of LoggingHandler in SOAP Project Using Axis**

## **Overview**

This document outlines the steps taken to implement and configure a LoggingHandler for logging SOAP requests and responses using the Axis library.

## **Implementation Details**

### **1. Library Usage**

* **Library**: Apache Axis
* **Purpose**: To handle and log SOAP requests and responses.

### **2. Class Implementation**

* **Class Name**: LoggingHandler
* **Base Class**: BasicHandler

### **3. Method Override**

* **Method**: public void invoke(MessageContext msgContext)
* **Description**: This method is invoked every time a SOAP request or response is made. Inside this method, request and response messages are handled and logged.

### **4. Logging Implementation**

* **Request Handling**: Captures and logs the SOAP request message.
* **Response Handling**: Captures and logs the SOAP response message.

## **Configuration Changes**

### **To integrate LoggingHandler into the SOAP call flow, the following changes were made to the .wsdd file.**

### **1. Handler Definition**

### **Defined the LoggingHandler in the .wsdd file with the following configuration:**

### **<handler name="LoggingHandler" type="java:com.example.axis.client.LoggingHandler"/>**

### **2. Service Flow Configuration**

Added requestFlow and responseFlow tags inside the service tag to specify the handler for both request and response flows:

<service name="yourServiceName" ...>

<!-- Other configurations -->

<requestFlow>

<handler type="LoggingHandler"/>

</requestFlow>

<responseFlow>

<handler type="LoggingHandler"/>

</responseFlow>

</service>

## **Output Verification**

* The log outputs from the LoggingHandler can be observed in the JBoss logs.
* Both SOAP request and response messages will be printed to the logs, facilitating monitoring and debugging.

## **Conclusion**

By following the steps outlined in this document, the LoggingHandler has been successfully integrated into the SOAP call flow. This allows for comprehensive logging of SOAP requests and responses, enhancing the ability to monitor and debug SOAP interactions.