**Prescription Monitoring Program  
Information Exchange Service**

**Java Apache CXF PMIX Reference Implementation**

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**TABLE OF CONTENTS**

[1 Introduction 1](#_Toc333410113)

[2 Prerequisites 1](#_Toc333410114)

[3 Setting up the Eclipse workspace:- 1](#_Toc333410115)

[4 Running the server 1](#_Toc333410116)

[5 Running the client 2](#_Toc333410117)

# Introduction

This Java reference implementation for the Prescription Monitoring Program Information Exchange service (PMIX) is built to conform to the JAX-WS standard and uses the Apache CXF implementation for Java. It has been built using Eclipse IDE for Java EE developers. This implementation adheres to the following standards:-

* Eclipse Helios or Indigo
* **Apache CXF version -2.5.2**
* JAX WS version – 2.2
* JDK 1.6

# Prerequisites

* The version of Eclipse being used should support the Web Tools Platform (WTP) (Eclipse Helios or Indigo). The Helios version can be found here: <http://www.eclipse.org/downloads/download.php?file=/technology/epp/downloads/release/helios/SR2/eclipse-jee-helios-SR2-win32.zip&url=http://www.gtlib.gatech.edu/pub/eclipse/technology/epp/downloads/release/helios/SR2/eclipse-jee-helios-SR2-win32.zip&mirror_id=337>
* Apache CXF should be installed and configured in Eclipse. The 2.5.2 release for Windows can be downloaded here: <http://archive.apache.org/dist/cxf/2.5.2/apache-cxf-2.5.2.zip>

# Setting up the Eclipse workspace:-

1. Extract all the folders from PMIX Java CXF Implementation.zip into a new folder. Each of these folders is a Java project
2. Import all the projects into a workspace in Eclipse.
3. In the local CXF installation directory, copy the folder called ‘lib’.
4. Paste 'lib' in the WebContent -> WEB-INF folder in the following projects.
   1. PMP Client Application
   2. PMP Service

# Running the server

1. In Eclipse, run ‘PMP Service’.
2. The hosted wsdl can be viewed by browsing to ‘http://localhost:8080/PMP\_Service/pmp?wsdl ‘.

Note: In order to change the address of the service, the Pmp\_WsBasicProfile\_Server.java file in PMP Service needs to be modified. The endpoint address can be changed as shown in the following snippet:  
  
String address = "http://localhost:8080/PMP\_Service/pmp";

# Running the client

1. In Eclipse, run ‘PMP Client Application’.
2. In the Client UI, enter sample information and click on Provide or Receive to send a synchronous message.

Note: In order to change the address of the service that the client attempts to access, the client.properties file in PMP Client Application needs to be modified. The endpoint address can be changed to point to a different URL as shown in the following snippet:

Address = http://localhost:8080/PMP\_Service/pmp