**Prescription Monitoring Program  
Information Exchange Service**

**.NET Reference Implementation**

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# Introduction

This .NET reference implementation for the Prescription Monitoring Program Information Exchange service (PMIX) is built to conform to Microsoft .NET Framework 4. It has been built using Visual Studio 2010. This implementation adheres to the following standards:-

* Microsoft .NET Framework 4
* **Visual Studio 2010**

# Prerequisites

* .NET Framework 4 must be installed. It can be downloaded here: <http://www.microsoft.com/en-us/download/details.aspx?id=17851>
* A licensed version of Visual Studio 2010 is required to debug and run the reference implementation

# Setting up the project in Visual Studio 2010

1. Rename the ‘PMIX Reference Implementation.zip.rename’ file to PMIX Reference Implementation.zip. The extracted folder contains 3 folders – ‘Client’, ‘Service’, ‘Shared’ and a Visual Studio Solution file called ‘PMIX RI Service.sln’
2. Extract the ‘PMIX Reference Implementation’ folder from the zip file.
3. Run Visual Studio 2010 in Administrator mode
4. In Visual Studio, choose Open Project -> PMIX RI Service.sln  
   PMIX RI Service.sln is in the **‘**PMIX Reference Implementation’ folder extracted in Step 2.

# Running the server

1. In Visual Studio, run ‘PMP Service Application’.
2. Browse to <http://localhost:18280/pmix/services?wsdl> to view the hosted wsdl.

# Running the client

1. In Visual Studio, run ‘PMP Client Application’
2. In the Client UI, Enter Destination State ID, Message ID, and Data. A synchronous message can be sent using the ‘Provide’, or ‘Receive’ buttons. An asynchronous message can be sent using the ‘Provide Async’, or ‘Receive Async’ buttons.

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

<client>

<endpoint address="http://localhost:18804/2010/12/pmix/router/out"

binding="ws2007HttpBinding"

bindingConfiguration="ws2007HttpBinding"

contract="PMPService.pmp"

name="WsBasicProfile"

behaviorConfiguration="viaBehavior"/>

</client>