

# Illinois Prescription Monitoring Program

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## Automated Connection Guide

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### Prescription Monitoring Program (PMP) Medication History

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Revised: **03/25/2016**

Version **1.0**

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## 1. DOCUMENT CHANGE HISTORY

DOCUMENT NAME: Canonical Guide -			
Version	Issue Date	Modified By	Comments/Reason
0.01	03/17/2016	Craig Berberet	First draft of Automated Connection Guide
0.02	03/22/2016	Stanley Murzynski	Updated Process Flow, Transaction Structure, Transaction Samples, Error Handling
0.03	3/25/2016	Craig Berberet	Headers and Footers, Table of Contents, Introduction

## 2. INTRODUCTION

### 2.1. Overview

The Illinois Department of Human Services (DHS) operates an electronic tool that collects information on dispensed medications, known as the Prescription Monitoring Program or PMP. That electronic tool represents a medication history of controlled substance prescriptions (Schedule II - V) dispensed by licensed pharmacies or dispensed from licensed practitioners under Illinois State law. Access to that data is provided via the Automated Connection to Eligible Hospitals and Eligible Professionals making a secure query from a Certified Electronic Health Record Technology or health information system.

The response provided from the PMP database via the Automated Connection is a real-time transaction based on the authentication of the requestor and a match of the patient record requested. The request and response utilize the NCPDP Script standard or the SOAP standard for

The S&I Framework PDMP & Health IT Integration workgroup is currently accepting comments and input on the national standard for interoperability for the PDMP transaction. The NCPDP RxHistory is one of several standards that has been discussed and is being considered. Once the S&I Framework workgroup establishes a final standard, this transaction may be adjusted to comply with the standard and potentially offered as a web service for consumption directly from a standards-compliant requesting system. In the event the transaction changes, this document will be updated to reflect the changes and shared with all current trading partners interested in the Prescription Monitoring Program Automated Connection.

## 2.2. Scope

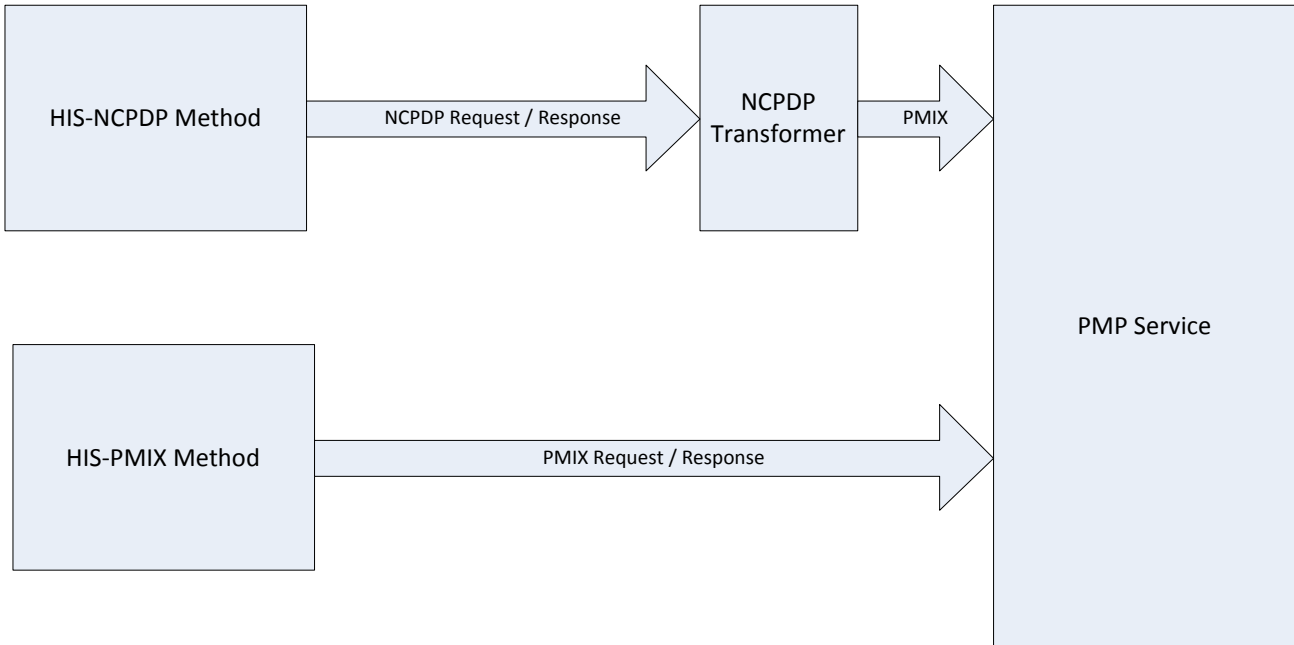
This Automated Connection Guide defines the query/response transactions for Medication History to/from the Illinois PMP. The initial scope of this transaction is for licensed healthcare providers authorized by statute, accessing patient medication history from the Illinois PMP only. This guide is unique to ***Illinois Prescription Monitoring Program***.

## 2.3. Terms and Acronyms

<b>Term/Acronym</b>	<b>Description</b>
NCPDP	National Council for Prescription Drug Programs - a not-for-profit, ANSI-accredited, standards development organization
PMIX	Prescription Monitoring Information Exchange Architecture – enabling interstate exchange of PMP data
PMP	Prescription Monitoring Program
SCRIPT	The NCPDP standard used for medication history queries and responses

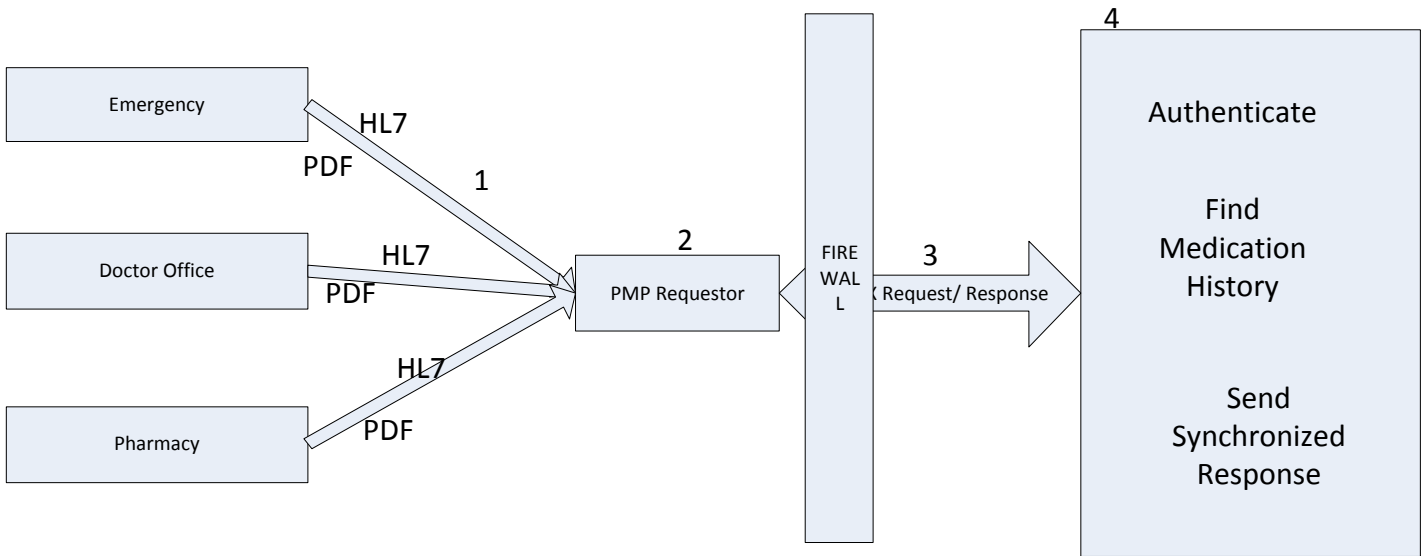
### 3. PROCESS FLOW

#### 3.1. High Level Process – Process flow Overview



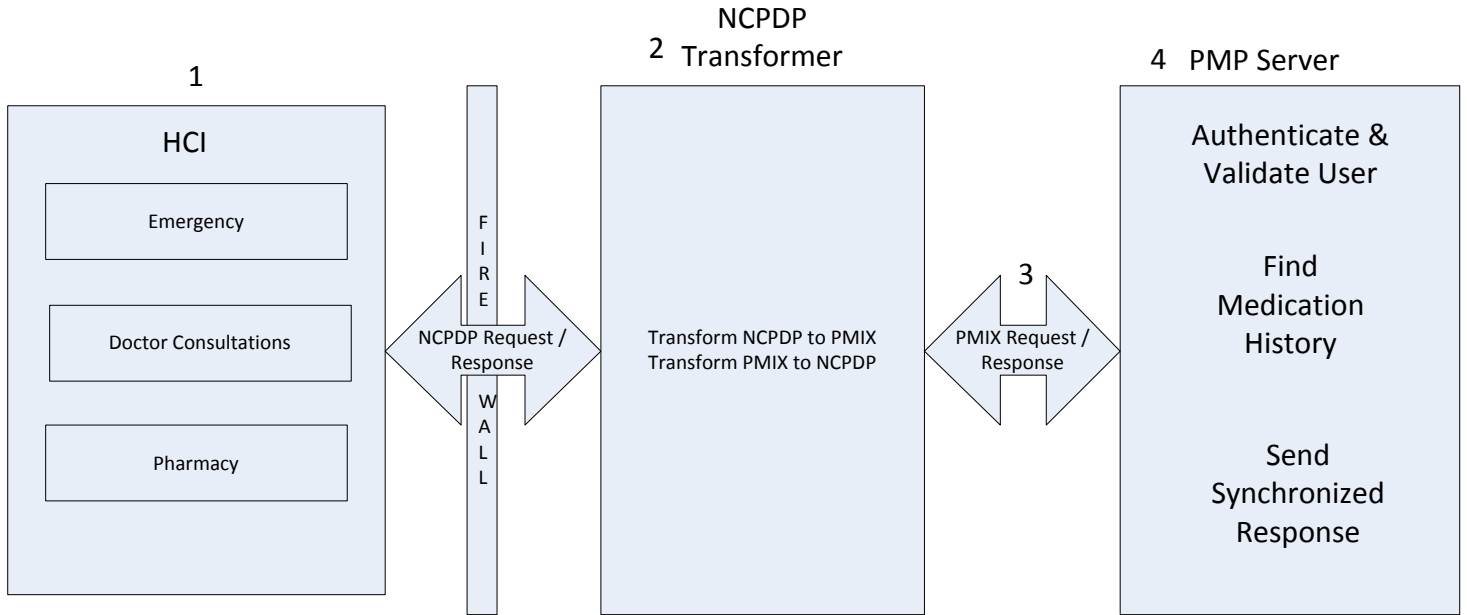
- The PMP Service receives requests both in PMIX and NCPDP formats.
- The NCPDP Transformer converts the messages from NCPDP to PMIX and back
- PMP Service is secured by SSL and username based authentication
- Authentication is performed at PDMP service level
- The username is validated against the Facility the user is registered with

### 3.2. High Level Process – Query from a Health Care Institution Partner VIA ADT Message (example: Anderson Hospital)



1. HL7 ADT messages are sent from various departments from an Health care institution
2. PMP Requestor – is a component which receives HL7 messages, generates PMIX Requests and send it to PMP Server. It Can also convert the PMIX Response to a PDF viewable by the department
3. PMIX Request / Response is the xml structure understood by PDMP Server
4. PMP Server – receives PMIX queries and returns medication history data

### 3.3. High Level Process – Query from a Health Care Institution Partner VIA NCPDP Connection (example: EPIC)



1. HL7 ADT messages are sent from various departments from an Health care institution
2. NCPDP Transformer – Transforms NCPDP requests and converts to PMIX and back.
3. PMIX Request / Response is the xml structure understood by PDMP Server
4. PDMP Server – receives PMIX queries and returns medication history data

## 4. FILE NAMING CONVENTIONS

### 4.1. Special Naming Convention

There are **no special or unique file naming conventions associated with the medication history requests that are required for appropriate message handling.**

Whatever naming convention is used by the request submitter will be seen in the response, preceded by **“PMP”**.

## 5. TRANSACTION STRUCTURE

### 5.1. NCPDP XML Transaction Structure

The NCPDP SCRIPT standard version 2031.012 is the initial required format. The requestor will supply the NCPDP Transport wrapper according to standard as well as the populated query. The response will be formatted to reflect the NCPDP transport wrapper and standard response format



**5.1.1. Transaction Representation**

5.1.1.1. In the table below, the NCPDP Script Medication History Request and Response are represented.

	Data element	Description/Business Logic	Req = R Opt = O Cond = C	XML element	Data Type	Field Size
NCPDP Request Transport Layer						
	XML	Standard XML declaration.	R	<?xml version="1.0" encoding="UTF-8"?>	XML	
	XML declaration	Standard XML declaration.	R	<?xml version="1.0" encoding="UTF-8"?>	XML element	n/a
	/Message	Wrapper for the entire message. Includes XML namespace declarations.	R	<Message xmlns="http://www.ncdp.org/schema/SCRIPT" release="006" version="010">	XML element	n/a
	/Message/Header	Wrapper for the transport header.	R	< Header></ Header>	Text	64
	/Message/Header/From	Indicates the sender of the message. <b>Should be "EPIC" for EPIC systems.</b> Must contain a Qualifier attribute: ZZZ - Mutually defined	R	<From Qualifier="ZZZ"> EPIC </From>	Text	64
	/Message/Header/Message ID	A unique reference identifier for the transmission, generated from the sender of the request and the sender of the response. Echoed back in the response.	R	<MessageID>213416</MessageID>	Text	35
	/Message/Header/Sent time	The time and date of the transmission. In the format CCYY-MM-DDThh:mm:ss.Z	R	<SentTime2015-08-21T18:13:58.0Z</SentTime>	DateTime	19

	Data element	Description/Business Logic	Req = R Opt = O Cond = C	XML element	Data Type	Field Size
	/Message/Header/Security/UsernameToken/Username	User name. Not used by PDMP.	O	<Username></Username>	Text	35
	/Message/Header/Security/Sender	Wrapper for sender's Tertiary identification.	R	<Sender></Sender>	XML element	n/a
	TertiaryIdentification	Used as the Facility ID of the sender or receiver	R	<TertiaryIdentification>1150057572</TertiaryIdentification>	Text	35
	/Message/Header/Security/Receiver	Wrapper for Receiver's Tertiary identification	R	<Receiver></Receiver>	Text	35
	Data element	Description/Business Logic	Req = R Opt = O Cond = C	XML element	Data Type	Field Size
<b>NCPDP Request Body</b>						
	/Message/Body/RxHistoryRequest/Prescriber/Identification/NPI	Prescriber's NPI number	R	<NPI>1000001895</NPI>	Text	12
	/Message/Body/RxHistoryRequest/Prescriber/Identification/MutuallyDefined	Should be EPIC	R	<MutuallyDefined>EPIC</MutuallyDefined>	Text	10

Data element	Description/Business Logic	Req = R Opt = O Cond = C	XML element	Data Type	Field Size
/Message/Body/RxHistoryRequest/Prescriber/Speciality	Prescriber's speciality code	R	<Specialty>207R00000X</Specialty>	Text	35
/Message/Body/RxHistoryRequest/Prescriber/ClinicName	Clinic name of the prescriber	R	<ClinicName>TES DEPARTMENT FOR WI</ClinicName>	Text	64
/Message/Body/RxHistoryRequest/Prescriber/Name	Firstname and Lastname of the prescriber	R	<Name> <LastName>Stolldorf</LastName> <FirstName>Tim</FirstName> </Name>	XML Element	n/a
/Message/Body/RxHistoryRequest/Prescriber/Address	Address of the prescriber	R	<Address> <AddressLine1>555 Epic Way</AddressLine1> <AddressLine2>Building 101</AddressLine2> <City>MADISON</City> <State>WI</State> <ZipCode>53717</ZipCode>  <PlaceLocationQualifier>AD2</PlaceLocationQualifier> </Address>	XML Element	n/a
/Message/Body/RxHistoryRequest/Prescriber/CommunicationNumbers	Contact numbers of the prescriber	R	<CommunicationNumbers> <Communication> <Number>4198553055</Number> <Qualifier>TE</Qualifier> </Communication> </CommunicationNumbers>	XML Element	n/a

Data element	Description/Business Logic	Req = R Opt = O Cond = C	XML element	Data Type	Field Size
/Message/Body/RxHistoryRequest/Patient/Name	Firstname and Lastname of the patient	R	<Name> <LastName>Paltrow</LastName> <FirstName>Mary</FirstName> </Name>	XML Element	n/a
/Message/Body/RxHistoryRequest/Patient/Gender	Gender of the Patient	R	<Gender>F</Gender>	Text	1
/Message/Body/RxHistoryRequest/Patient/DateOfBirth	Patient's Date of birth	R	<DateOfBirth> <Date>1951-06-18</Date> </DateOfBirth>	XML Element	n/a
/Message/Body/RxHistoryRequest/Patient/Address	Patient's Address	R	<Address> <AddressLine1>2645 Mulberry Lane</AddressLine1> <City>Toledo</City> <State>OH</State> <ZipCode>43605</ZipCode> </Address>	XML Element	40
/Message/Body/RxHistoryRequest/Patient/CommunicationNumbers	Patient's contact numbers	R	<CommunicationNumbers> <Communication> <Number>4198553055</Number> <Qualifier>TE</Qualifier> </Communication> </CommunicationNumbers>	XML Element	40
/Message/Body/RxHistoryRequest/Patient/BenefitsCoordination/EffectiveDate	The effective date from which patient's consent is valid for	R	<EffectiveDate> <Date>2014-08-22</Date> </EffectiveDate>	XML Element	35

Data element	Description/Business Logic	Req = R Opt = O Cond = C	XML element	Data Type	Field Size
/Message/Body/RxHistoryRequest/Patient/BenefitsCoordination/ExpirationDate	The date when patient's consent expires	R	<ExpirationDate> <Date>2015-08-21</Date> </ExpirationDate>	XML Element	2
/Message/Body/RxHistoryRequest/Patient/BenefitsCoordination/Consent	Y - Patient gave consent for prescriber to receive the medication history from any prescriber. N - Patient consent not given. P - Patient gave consent for prescriber to only receive the medication history this prescriber prescribed. X - Parental/Guardian consent on behalf of a minor for prescriber to receive the medication history from any prescriber. Z - Parental/Guardian consent on behalf of a minor for prescriber to only receive the medication history this prescriber prescribed.	R	<Consent>Y</Consent>	Text	9

NCPDP Response Transport Layer						
XML declaration		Standard XML declaration.	R	<?xml version="1.0" encoding="UTF-8"?>	XML declaration	n/a
Data element		Description/Business Logic	Req = R Opt = O Cond = C	XML element	Data Type	Field Size
/Message		Wrapper for the entire message. Includes XML namespace declarations.	R	<Message xmlns="http://www.ncdp.org/schema/SCRIPT" release="006" version="010">	XML Element	n/a
/Message/Header		Wrapper for the transport header.	R	< Header></ Header>	XML element	n/a
/Message/Header/To		Indicates the intended message recipient. Must be: EPIC for EPIC systems Must contain a Qualifier attribute: ZZZ - Mutually defined	R	<To Qualifier="ZZZ"> EPIC </To>	Text	35
/Message/Header/From		Indicates the sender of the message. Must contain a Qualifier attribute: ZZZ - Mutually defined	R	<From Qualifier="ZZZ"> PDMP </From>	Text	35
/Message/Header/Message ID		A unique reference identifier for the transmission, generated from the sender of the request and the sender of the response. Echoed back in the response.	R	<MessageID>213416</MessageID>	Text	35

	Data element	Description/Business Logic	Req = R Opt = O Cond = C	XML element	Data Type	Field Size
	/Message/Header/RelatesToMessageID	Message ID of the request for which this Response corresponds to	R	<RelatesToMessageID>213416</RelatesToMessageID>	Text	35
	/Message/Header/Sent time	The time and date of the transmission. In the format CCYY-MM-DDThh:mm:ss.Z	R	<SentTime2015-08-21T18:13:58.0Z</SentTime>	DateTime	19
	/Message/Body/RxHistoryResponse/Response	Can contain either <Approved> or <Denied> indicating approval or denial	R	<Approved/> or </Denied>	XML Element	n/a
<b>NCPDP Response Body</b>						
	Data element	Description/Business Logic	Req = R Opt = O Cond = C	XML element	Data Type	Field Size
	/Message/Body/RxHistoryResponse/Patient/Name	Firstname and Lastname of the patient	R	<Name> <LastName>Paltrow</LastName> <FirstName>Mary</FirstName> </Name>	XML Element	n/a
	/Message/Body/RxHistoryResponse/Patient/DateOfBirth	Patient's Date of birth	R	<DateOfBirth> <Date>1951-06-18</Date> </DateOfBirth>	XML Element	n/a
	/Message/Body/RxHistoryResponse/Patient/Address	Patient's Address	R	<Address> <AddressLine1>2645 Mulberry Lane</AddressLine1> <City>Toledo</City> <State>OH</State> <ZipCode>43605</ZipCode> </Address>	XML Element	n/a

Data element	Description/Business Logic	Req = R Opt = O Cond = C	XML element	Data Type	Field Size
/Message/Body/RxHistoryRequest/Patient/BenefitsCoordination/EffectiveDate	The effective date from which patient’s consent is valid for	R	<EffectiveDate> <Date>2014-08-22</Date> </EffectiveDate>	XML Element	n/a
/Message/Body/RxHistoryRequest/Patient/BenefitsCoordination/ExpirationDate	The date when patient’s consent expires	R	<ExpirationDate> <Date>2015-08-21</Date> </ExpirationDate>	XML Element	2
/Message/Body/RxHistoryRequest/Patient/BenefitsCoordination/Consent	Y - Patient gave consent for prescriber to receive the medication history from any prescriber. N - Patient consent not given. P - Patient gave consent for prescriber to only receive the medication history this prescriber prescribed. X - Parental/Guardian consent on behalf of a minor for prescriber to receive the medication history from any prescriber. Z - Parental/Guardian consent on behalf of a minor for prescriber to only receive the medication history this prescriber prescribed.	R	<Consent>Y</Consent>	Text	n/a
/Message/Body/RxHistoryRequest/Patient/MedicationDispensed	Wrapper for containing the information about Medication History	R	<MedicationDispensed></MedicationDispensed>	XML Element	64



/Message/Body/RxHistoryRequest/Patient/MedicationDispensed/DrugDescription	Description of the prescribed drug	R	<DrugDescription>HYDROCODON-ACETAMINOPHEN 5-500</DrugDescription>	Text	19
/Message/Body/RxHistoryRequest/Patient/MedicationDispensed/DrugCoded/ProductCode	Product code of the prescribed drug	R	<ProductCode>00406035705</ProductCode>	Text	19
/Message/Body/RxHistoryRequest/Patient/MedicationDispensed/DrugCoded/Strength	Qualifier of the prescribed drug	R	<ProductCodeQualifier>ND</ProductCodeQualifier>	Text	19
/Message/Body/RxHistoryRequest/Patient/MedicationDispensed/DrugCoded/Strength	The strength of the drug	R	<Strength>5 MG-500MG</Strength>	Text	19
/Message/Body/RxHistoryRequest/Patient/MedicationDispensed/Quantity/Value	The quantity of the drug prescribed	R	<Value>30</Value>	Text	5
/Message/Body/RxHistoryRequest/Patient/MedicationDispensed/Quantity/UnitSourceCode	CodeListQualifier of the drug	R	<CodeListQualifier>87</CodeListQualifier>	Text	5
/Message/Body/RxHistoryRequest/Patient/MedicationDispensed/Quantity/UnitSourceCode	Unit Source Code for the code list qualifier	R	<UnitSourceCode>AC</UnitSourceCode>	Text	5
/Message/Body/RxHistoryRequest/Patient/MedicationDispensed/Quantity/UnitSourceCode	PotencyUnitCode for the drug	R	<PotencyUnitCode>C38046</PotencyUnitCode>	Text	10
/Message/Body/RxHistoryRequest/Patient/MedicationDispensed/Quantity/UnitSourceCode	No. of days the drugs prescribed will last	R	<DaysSupply>30</DaysSupply>	Number	5

quest/Patient/ MedicationDis pensed/DaysS upply					
/Message/Bod y/RxHistoryRe quest/Patient/ MedicationDis pensed/Note	Any notes regarding the medication dispensed	R	<Note></Note>	Text	n/a
/Message/Bod y/RxHistoryRe quest/Patient/ MedicationDis pensed/Refills /Qualifier	Qualifier for the refills value	R	<Qualifier>R</Qualifier>	Text	2
/Message/Bod y/RxHistoryRe quest/Patient/ MedicationDis pensed/Refills /Value	Refills value	R	<Value>3</Value>	Text	5
/Message/Bod y/RxHistoryRe quest/Patient/ MedicationDis pensed/Writt enDate/Date	Date when the prescription was written	R	<WrittenDate> <Date>2015-06-30</Date> </WrittenDate>	Date	19
/Message/Bod y/RxHistoryRe quest/Patient/ MedicationDis pensed/LastFil lDate/Date	Date when the drug was last filled	R	<LastFillDate> <Date>2015-06-30</Date> </LastFillDate>	Date	19

Data element	Description/Business Logic	Req = R Opt = O Cond = C	XML element	Data Type	Field Size
/Message/Body/RxHistoryRequest/Patient/MedicationDispensed/Pharmacy	Details of the pharmacy the drug was given from	R	<pre>&lt;Pharmacy&gt;   &lt;StoreName&gt;ACME INC&lt;/StoreName&gt;   &lt;Address&gt;     &lt;AddressLine1&gt;391 Industry Drive, SUITE 300&lt;/AddressLine1&gt;     &lt;City&gt;AUBURN&lt;/City&gt;     &lt;State&gt;AL&lt;/State&gt;     &lt;ZipCode&gt;36832&lt;/ZipCode&gt;   &lt;/Address&gt; &lt;/Pharmacy&gt;</pre>	XML Element	n/a
/Message/Body/RxHistoryRequest/Patient/MedicationDispensed/Prescriber/Name	First name and last name of the prescriber	R	<pre>&lt;Name&gt;   &lt;LastName&gt;PRESCRIBER&lt;/LastName&gt;   &lt;FirstName/&gt; &lt;/Name&gt;</pre>	XML Element	n/a
/Message/Body/RxHistoryRequest/Patient/MedicationDispensed/Prescriber/Address	Address of the prescriber	R	<pre>&lt;Address&gt;   &lt;AddressLine1&gt;1265 Lombardi Ave&lt;/AddressLine1&gt;   &lt;City&gt;GREEN BAY&lt;/City&gt;   &lt;State&gt;WI&lt;/State&gt;   &lt;ZipCode&gt;54304&lt;/ZipCode&gt; &lt;/Address&gt;</pre>	XML Element	n/a
/Message/Body/RxHistoryRequest/Patient/MedicationDispensed/HistorySource	The source from where the medication history was obtained from	R	<pre>&lt;HistorySource&gt;   &lt;SourceReference&gt;147803-0001&lt;/SourceReference&gt;   &lt;FillNumber&gt;0&lt;/FillNumber&gt; &lt;/HistorySource&gt;</pre>	XML Element	n/a

**5.1.2. PMIX base XMLTransaction Representation**

**5.1.2.1.** In the table below, the PMIX based xml History Request and Response are represented. The SOAP Header and Body elements are not described here.

PMIX Response Transport Layer						
Data element	Description/Business Logic	Req = R Opt = O Cond = C	XML element	Data Type	Field Size	
RequestPatient	Wrapper for the entire XML Request	R	Namespace is from xmlns:req="http://xml.netbeans.org/schema/RequestPatient"	XML Element	n/a	
RequestPatient/FacilityId	Facility ID from where the request is being sent	R	<req:FacilityId>RVC</req:FacilityId>	Text	15	
RequestPatient/PatientGivenName	Patient's given name	R	<req:PatientGivenName>Bilbo</req:PatientGivenName>	Text	50	
RequestPatient/PatientSurName	Patient's surname	R	<req:PatientSurName>Baggins</req:PatientSurName>	Text	50	
RequestPatient/DateOfBirth	Patient's date of birth in YYYY-MM-DD format	R	req:DateOfBirth>1959-12-26</req:DateOfBirth>	Date	19	
PMIX Response Transport Layer						
Data element	Description/Business Logic	Req = R Opt = O Cond = C	XML element	Data Type	Field Size	
PrescriptionReport	Wrapper for the entire XML Response	R	Namespace is from xmlns:ns2="http://xml.netbeans.org/schema/PrescriptionReport"	XML Element	n/a	
PrescriptionReport/FacilityId	Facility Id from there the request is coming from	R	<ns2:FacilityId>RVC</ns2:FacilityId>	Text	15	

Data element	Description/Business Logic	Req = R Opt = O Cond = C	XML element	Data Type	Field Size
PrescriptionReport/ReportExecutionDate	Date when the report is executed in YYYY-MM-DD format	R	<ns2:ReportExecutionDate>2015-04-23</ns2:ReportExecutionDate>	Date	19
PrescriptionReport/ReportExecutionTime	Time when the report is executed in HH:mm:ss format	R	<ns2:ReportExecutionTime>02:37:41</ns2:ReportExecutionTime>	Time	19
PrescriptionReport/Prescription	Wrapper for one of the prescription details	R	<ns2:Prescription></ns2:Prescription>	XML Element	n/a
PrescriptionReport/Prescription/Organization	Wrapper for the organization details of the pharmacy	R	<ns2:Organization><ns2:OrganizationName>DRUGS R US</ns2:OrganizationName><ns2:Address><ns2:Street>12 Picadilly Square</ns2:Street><ns2:City>London</ns2:City><ns2:State>IL</ns2:State><ns2:PostalCode>65555</ns2:PostalCode><ns2:ContactInformation>773-333-5555</ns2:ContactInformation></ns2:Address></ns2:Organization>	XML Element	n/a
PrescriptionReport/Prescription/Patient	Wrapper for the patient details for whom the medication is prescribed to	R	<ns2:Patient><ns2:GivenName>SHERLOCK</ns2:GivenName><ns2:SurName>HOLMES</ns2:SurName><ns2:BirthDate>1954-1-6</ns2:BirthDate><ns2:SexCode>M</ns2:SexCode><ns2:Address><ns2:Street>121 BABRBER STREET</ns2:Street><ns2:City>YORKSHIRE</ns2:City><ns2:State>IL</ns2:State><ns2:PostalCode>62690</ns2:PostalCode></ns2:Address></ns2:Patient>	XML Element	n/a
PrescriptionReport/Prescription/Prescriber	Wrapper for the Prescriber's details	R	<ns2:Prescriber><ns2:GivenName>Dr Moriarty</ns2:GivenName><ns2:Address><ns2:City>chicago</ns2:City><ns2:State>IL</ns2:State><ns2:PostalCode>62544</ns2:PostalCode></ns2:Address></ns2:Prescriber>	XML Element	n/a
PrescriptionReport/Prescription/nDrug	Wrapper for PrescriptionDrug information	R	<ns2:PrescriptionDrug></ns2:PrescriptionDrug>	XML Element	n/a

Data element	Description/Business Logic	Req = R Opt = O Cond = C	XML element	Data Type	Field Size
PrescriptionReport/Prescription/PrescriptionDrug/NDCNumber	NDC Number of the drug	R	<ns2:NDCNumber>54092037701</ns2:NDCNumber>	Text	56
PrescriptionReport/Prescription/PrescriptionDrug/LabelName	Label Name of the drug	R	<ns2:LabelName>ADDERALL</ns2:LabelName>	Text	56
PrescriptionReport/Prescription/PrescriptionDrug/DrugStrength	Strength of the drug	R	<ns2:DrugStrength>30 MG</ns2:DrugStrength>	Text	35
PrescriptionReport/Prescription/PrescriptionDrug/DrugUnitOfMeasure	Measurement unit of the drug	R	<ns2:DrugUnitOfMeasure>TABLET</ns2:DrugUnitOfMeasure>	Text	35
PrescriptionReport/Prescription/PrescriptionDrug/Schedule	Schedule of the drug	R	<ns2:Schedule>2</ns2:Schedule>	Text	2
PrescriptionReport/Prescription/PrescriptionNumber	Unique number to identify the prescription	R	<ns2:PrescriptionNumber>999999997</ns2:PrescriptionNumber>	Number	35
PrescriptionReport/Prescription/PrescriptionFilledDate	Date when the prescription was filled in YYYY-MM-DD format	R	<ns2:PrescriptionFilledDate>2014-5-5</ns2:PrescriptionFilledDate>	Date	19

Data element	Description/Business Logic	Req = R Opt = O Cond = C	XML element	Data Type	Field Size
PrescriptionReport/Prescription/PrescriptionWrittenDate	Date when the prescription was written in YYYY-MM-DD format	R	<ns2:PrescriptionWrittenDate>2014-3-24</ns2:PrescriptionWrittenDate>	Date	19
PrescriptionReport/Prescription/RefillsAuthorizedCount	Number of refills authorised	R	<ns2:RefillsAuthorizedCount>1</ns2:RefillsAuthorizedCount>	Number	5
PrescriptionReport/Prescription/DispensedQuantity	Dispensed quantity of the drug	R	<ns2:DispensedQuantity>30</ns2:DispensedQuantity>	Number	5
PrescriptionReport/Prescription/DaysSupplyCount	Supplies count	R	ns2:DaysSupplyCount>30</ns2:DaysSupplyCount>	Number	5
PrescriptionReport/Prescription/PaymentCode	Payment code	R	<ns2:PaymentCode>04</ns2:PaymentCode>	Number	2
PrescriptionReport/Prescription/Payment	Name of the payment	R	<ns2:Payment>Commerical Insurance</ns2:Payment>	Text	35

## 6. TRANSACTION SAMPLES

### 6.1. NCPDP XML

#### 6.1.1. Request

```

<?xml version="1.0"?>
<Message version="010" release="006" xmlns="http://www.ncdp.org/schema/SCRIPT">
  <Header>
    <To Qualifier="ZZZ">PDMP</To>
    <From Qualifier="D">EPIC</From>
    <MessageID>213416</MessageID>
    <SentTime>2015-08-21T18:13:58.0Z</SentTime>
    <Security>
      <UsernameToken>
        <Username>2104</Username>
      </UsernameToken>
      <Sender>
        <TertiaryIdentification>RVC</TertiaryIdentification>
      </Sender>
      <Receiver>
        <TertiaryIdentification>PMPGATEWAY</TertiaryIdentification>
      </Receiver>
    </Security>
    <TestMessage>1</TestMessage>
    <TertiaryIdentifier>FIL</TertiaryIdentifier>
  </Header>
  <Body>
    <RxHistoryRequest>
      <Prescriber>
        <Identification>
          <DEANumber>BA2397443</DEANumber>
          <NPI>1000001895</NPI>
          <MutuallyDefined>EPIC</MutuallyDefined>
        </Identification>
        <Specialty>207R00000X</Specialty>
        <ClinicName>TES DEPARTMENT FOR WI</ClinicName>
        <Name>
          <LastName>Stolldorf</LastName>
          <FirstName>Tim</FirstName>
        </Name>
        <Address>
          <AddressLine1>555 Epic Way</AddressLine1>
          <AddressLine2>Building 101</AddressLine2>
          <City>MADISON</City>
          <State>WI</State>
          <ZipCode>53717</ZipCode>
          <PlaceLocationQualifier>AD2</PlaceLocationQualifier>
        </Address>
        <CommunicationNumbers>
          <Communication>

```



```

        <Number>6082719100</Number>
        <Qualifier>TE</Qualifier>
    </Communication>
    <Communication>
        <Number>6082719101</Number>
        <Qualifier>FX</Qualifier>
    </Communication>
</CommunicationNumbers>
</Prescriber>
<Patient>
    <Name>
        <LastName>Baggins</LastName>
        <FirstName>Bilbo</FirstName>
    </Name>
    <Gender>M</Gender>
    <DateOfBirth>
        <Date>1959-12-26</Date>
    </DateOfBirth>
    <Address>
        <AddressLine1>2645 Mulberry Lane</AddressLine1>
        <City>Toledo</City>
        <State>OH</State>
        <ZipCode>43605</ZipCode>
    </Address>
    <CommunicationNumbers>
        <Communication>
            <Number>4198553055</Number>
            <Qualifier>TE</Qualifier>
        </Communication>
    </CommunicationNumbers>
</Patient>
<BenefitsCoordination>
    <EffectiveDate>
        <Date>2014-08-22</Date>
    </EffectiveDate>
    <ExpirationDate>
        <Date>2015-08-21</Date>
    </ExpirationDate>
    <Consent>Y</Consent>
</BenefitsCoordination>
</RxHistoryRequest>
</Body>
</Message>

```

### 6.1.2 XML Resopnse

```

<?xml version="1.0"?>
<Message version="010" release="006" xmlns="http://www.ncdpd.org/schema/SCRIPT">
    <Header>
        <To>EPIC</To>

```

```
<From>PDMP</From>
<MessageID>213416</MessageID>
<RelatesToMessageID>213416</RelatesToMessageID>
<SentTime>2016-03-18T09:19:26.28-04:00</SentTime>
</Header>
<Body>
  <RxHistoryResponse>
    <Response>
      <Approved/>
    </Response>
    <Patient>
      <Name>
        <LastName>baggins</LastName>
        <FirstName>bilbo</FirstName>
      </Name>
      <Gender>M</Gender>
      <DateOfBirth>
        <Date>1959-12-26</Date>
      </DateOfBirth>
      <Address>
        <AddressLine1>241 Shire street</AddressLine1>
        <City>SPRINGFIELD</City>
        <State>IL</State>
        <ZipCode>62704</ZipCode>
      </Address>
    </Patient>
    <BenefitsCoordination>
      <EffectiveDate>
        <Date>2014-08-22</Date>
      </EffectiveDate>
      <ExpirationDate>
        <Date>2015-08-21</Date>
      </ExpirationDate>
      <Consent>Y</Consent>
    </BenefitsCoordination>
    <MedicationDispensed>
      <DrugDescription>HYDROCODONE-ACETAMINOPHEN</DrugDescription>
      <DrugCoded>
        <ProductCode>00591320201</ProductCode>
        <ProductCodeQualifier>ND</ProductCodeQualifier>
        <Strength>5MG-325MG</Strength>
      </DrugCoded>
      <Quantity>
        <Value>30</Value>
        <CodeListQualifier>87</CodeListQualifier>
        <UnitSourceCode>AC</UnitSourceCode>
        <PotencyUnitCode>Tablet</PotencyUnitCode>
      </Quantity>
      <DaysSupply>30</DaysSupply>
    </MedicationDispensed>
  </RxHistoryResponse>
</Body>
```

```

    <Refills>
      <Qualifier>R</Qualifier>
      <Value>0</Value>
    </Refills>
    <WrittenDate>
      <Date>2012-11-26</Date>
    </WrittenDate>
    <LastFillDate>
      <Date>2012-11-26</Date>
    </LastFillDate>
    <Pharmacy>
      <StoreName>MedPlus</StoreName>
      <Address>
        <AddressLine1>KR Puram</AddressLine1>
        <City>BLR</City>
        <State>KA</State>
        <ZipCode>560043</ZipCode>
      </Address>
    </Pharmacy>
    <Prescriber>
      <Name>
        <FirstName>Dr. Johnson</FirstName>
      </Name>
      <Address>
        <City>BLR</City>
        <State>KA</State>
        <ZipCode>779889</ZipCode>
      </Address>
    </Prescriber>
  </MedicationDispensed>
  <MedicationDispensed>
    <DrugDescription>HYDROCODONE-ACETAMINOPHEN</DrugDescription>
    <DrugCoded>
      <ProductCode>00603388728</ProductCode>
      <ProductCodeQualifier>ND</ProductCodeQualifier>
      <Strength>10MG-325MG</Strength>
    </DrugCoded>
    <Quantity>
      <Value>20</Value>
      <CodeListQualifier>87</CodeListQualifier>
      <UnitSourceCode>AC</UnitSourceCode>
      <PotencyUnitCode>Tablet</PotencyUnitCode>
    </Quantity>
    <DaysSupply>5</DaysSupply>
    <Refills>
      <Qualifier>R</Qualifier>
      <Value>00</Value>
    </Refills>
    <WrittenDate>

```

```
<Date>2012-11-24</Date>
</WrittenDate>
<LastFillDate>
  <Date>2012-11-24</Date>
</LastFillDate>
<Pharmacy>
  <StoreName>MedPlus</StoreName>
  <Address>
    <AddressLine1>KR Puram</AddressLine1>
    <City>BLR</City>
    <State>KA</State>
    <ZipCode>560043</ZipCode>
  </Address>
</Pharmacy>
<Prescriber>
  <Name>
    <FirstName>Dr. Johnson</FirstName>
  </Name>
  <Address>
    <City>BLR</City>
    <State>KA</State>
    <ZipCode>779889</ZipCode>
  </Address>
</Prescriber>
</MedicationDispensed>
<MedicationDispensed>
  <DrugDescription>TESTOSTERONE CYPIONATE</DrugDescription>
  <DrugCoded>
    <ProductCode>00591322379</ProductCode>
    <ProductCodeQualifier>ND</ProductCodeQualifier>
    <Strength>200MG/ML</Strength>
  </DrugCoded>
  <Quantity>
    <Value>10</Value>
    <CodeListQualifier>87</CodeListQualifier>
    <UnitSourceCode>AC</UnitSourceCode>
    <PotencyUnitCode>Oil</PotencyUnitCode>
  </Quantity>
  <DaysSupply>30</DaysSupply>
  <Refills>
    <Qualifier>R</Qualifier>
    <Value>01</Value>
  </Refills>
  <WrittenDate>
    <Date>2012-10-04</Date>
  </WrittenDate>
  <LastFillDate>
    <Date>2012-11-19</Date>
  </LastFillDate>
```

```

    <Pharmacy>
      <StoreName>MedPlus</StoreName>
      <Address>
        <AddressLine1>KR Puram</AddressLine1>
        <City>BLR</City>
        <State>KA</State>
        <ZipCode>560043</ZipCode>
      </Address>
    </Pharmacy>
    <Prescriber>
      <Name>
        <FirstName>Dr. Johnson</FirstName>
      </Name>
      <Address>
        <City>BLR</City>
        <State>KA</State>
        <ZipCode>779889</ZipCode>
      </Address>
    </Prescriber>
  </MedicationDispensed>
</RxHistoryResponse>
</Body>
</Message>

```

## 6.2. PMIX based XML

### 6.2.1. Request

```

<?xml version="1.0"?>
<soapenv:Envelope xmlns:req="http://xml.netbeans.org/schema/RequestPatient"
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <req:RequestPatient>
      <!--Zero or more repetitions:-->
      <req:FacilityId>RVC</req:FacilityId>
      <!--Zero or more repetitions:-->
      <req:PatientGivenName>Bilbo</req:PatientGivenName>
      <!--Zero or more repetitions:-->
      <req:PatientSurName>Baggins</req:PatientSurName>
      <!--Zero or more repetitions:-->
      <req:DateOfBirth>1959-12-26</req:DateOfBirth>
    </req:RequestPatient>
  </soapenv:Body>
</soapenv:Envelope>

```

### 6.2.2. Response

```

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <PrescriptionReport xmlns="http://xml.netbeans.org/schema/PrescriptionReport"

```

```

xmlns:ns2="http://xml.netbeans.org/schema/PrescriptionReport"
xmlns:msgns="http://j2ee.netbeans.org/wsdl/Illinois_PDMPQueryServiceBpel/httpreceive">
  <ns2:FacilityId>RVC</ns2:FacilityId>
  <ns2:ReportExecutionDate>2014-11-25</ns2:ReportExecutionDate>
  <ns2:ReportExecutionTime>02:34:43</ns2:ReportExecutionTime>
  <ns2:Prescription>
    <ns2:Organization>
      <ns2:OrganizationName>DRUGS R US</ns2:OrganizationName>
      <ns2:Address>
        <ns2:Street>12 Picadilly Square</ns2:Street>
        <ns2:City>London</ns2:City>
        <ns2:State>IL</ns2:State>
        <ns2:PostalCode>65555</ns2:PostalCode>
        <ns2:ContactInformation>773-333-
5555</ns2:ContactInformation>
      </ns2:Address>
    </ns2:Organization>
    <ns2:Patient>
      <ns2:GivenName>SHERLOCK</ns2:GivenName>
      <ns2:SurName>HOLMES</ns2:SurName>
      <ns2:BirthDate>1954-1-6</ns2:BirthDate>
      <ns2:SexCode>M</ns2:SexCode>
      <ns2:Address>
        <ns2:Street>121 BABRBER STREET</ns2:Street>
        <ns2:City>YORKSHIRE</ns2:City>
        <ns2:State>IL</ns2:State>
        <ns2:PostalCode>62690</ns2:PostalCode>
      </ns2:Address>
    </ns2:Patient>
    <ns2:Prescriber>
      <ns2:GivenName>Dr Moriarty</ns2:GivenName>
      <ns2:Address>
        <ns2:City>chicago</ns2:City>
        <ns2:State>IL</ns2:State>
        <ns2:PostalCode>62544</ns2:PostalCode>
      </ns2:Address>
    </ns2:Prescriber>
    <ns2:PrescriptionDrug>
      <ns2:NDCNumber>54092037701</ns2:NDCNumber>
      <ns2:LabelName>ADDERALL</ns2:LabelName>
      <ns2:DrugStrength>30 MG</ns2:DrugStrength>
      <ns2:DrugUnitOfMeasure>TABLET</ns2:DrugUnitOfMeasure>
      <ns2:Schedule>2</ns2:Schedule>
    </ns2:PrescriptionDrug>
    <ns2:PrescriptionNumber>999999997</ns2:PrescriptionNumber>
    <ns2:PrescriptionFilledDate>2014-5-5</ns2:PrescriptionFilledDate>
    <ns2:PrescriptionWrittenDate>2014-3-24</ns2:PrescriptionWrittenDate>
    <ns2:RefillsAuthorizedCount>1</ns2:RefillsAuthorizedCount>
    <ns2:DispensedQuantity>30</ns2:DispensedQuantity>

```

```

    <ns2:DaysSupplyCount>30</ns2:DaysSupplyCount>
    <ns2:PaymentCode>04</ns2:PaymentCode>
  </ns2:Prescription>
<ns2:Prescription>
  <ns2:Organization>
    <ns2:OrganizationName>YE OLE PILL
SHOPPE</ns2:OrganizationName>
    <ns2:Address>
      <ns2:Street>345 THAMES AVENUE</ns2:Street>
      <ns2:City>OXFORD</ns2:City>
      <ns2:State>IL</ns2:State>
      <ns2:PostalCode>33333</ns2:PostalCode>
      <ns2:ContactInformation>847-666-
6666</ns2:ContactInformation>
    </ns2:Address>
  </ns2:Organization>
  <ns2:Patient>
    <ns2:GivenName>SHERLOCK</ns2:GivenName>
    <ns2:SurName>HOLMES</ns2:SurName>
    <ns2:BirthDate>1954-1-6</ns2:BirthDate>
    <ns2:SexCode>M</ns2:SexCode>
    <ns2:Address>
      <ns2:Street>121 BABRBER STREET</ns2:Street>
      <ns2:City>LONDON</ns2:City>
      <ns2:State>IL</ns2:State>
      <ns2:PostalCode>62560</ns2:PostalCode>
    </ns2:Address>
  </ns2:Patient>
  <ns2:Prescriber>
    <ns2:GivenName>Dr Henry Jeckyll</ns2:GivenName>
    <ns2:Address>
      <ns2:City>EDINBURGH</ns2:City>
      <ns2:State>IL</ns2:State>
      <ns2:PostalCode>32323</ns2:PostalCode>
    </ns2:Address>
  </ns2:Prescriber>
  <ns2:PrescriptionDrug>
    <ns2:NDCNumber>54868290501</ns2:NDCNumber>
    <ns2:LabelName>DILAUDID</ns2:LabelName>
    <ns2:DrugStrength>4MG</ns2:DrugStrength>
    <ns2:DrugUnitOfMeasure>TABLET</ns2:DrugUnitOfMeasure>
    <ns2:Schedule>2</ns2:Schedule>
  </ns2:PrescriptionDrug>
  <ns2:PrescriptionNumber>999999996</ns2:PrescriptionNumber>
  <ns2:PrescriptionFilledDate>2014-1-24</ns2:PrescriptionFilledDate>
  <ns2:PrescriptionWrittenDate>2014-3-24</ns2:PrescriptionWrittenDate>
  <ns2:RefillsAuthorizedCount>1</ns2:RefillsAuthorizedCount>
  <ns2:DispensedQuantity>30</ns2:DispensedQuantity>
  <ns2:DaysSupplyCount>30</ns2:DaysSupplyCount>

```

Document Name Illinois PMP Automated Connection Guide –PMP Medication History  
<ns2:PaymentCode>01</ns2:PaymentCode>  
</ns2:Prescription>  
</PrescriptionReport>  
</SOAP-ENV:Body>  
</SOAP-ENV:Envelope>



## 7. ACKNOWLEDGEMENT AND ERROR HANDLING PROCESSES

### 7.1. Acknowledgement

Both for PMIX and NCPDP interfaces, the response xml is the acknowledgement. Since the transaction is synchronized communication, there is no separate acknowledgement response.

### 7.2. Sample NCPDP message when Patient Not Found

```
<Message xmlns="http://www.ncdp.org/schema/SCRIPT" release="006" version="010">
  <Header>
    <To>EPIC</To>
    <From>PDMP</From>
    <MessageID>213416</MessageID>
    <RelatesToMessageID>213416</RelatesToMessageID>
    <SentTime>2016-03-22T03:38:26.55-04:00</SentTime>
  </Header>
  <Body>
    <Error>
      <Code>900</Code>
      <DescriptionCode>210</DescriptionCode>
      <Description>[NODATA]</Description>
    </Error>
  </Body>
</Message>
```

### 7.3. Sample PMIX based XML response when Patient Not Found

```
<?xml version='1.0' encoding='UTF-8'?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header/>
  <SOAP-ENV:Body>
    <PrescriptionReport
      xmlns:msgns="http://j2ee.netbeans.org/wsd/illinois_PDMPQueryServiceBpel/httpreceive"
      xmlns:ns2="http://xml.netbeans.org/schema/PrescriptionReport"
      xmlns="http://xml.netbeans.org/schema/PrescriptionReport"/>
    </SOAP-ENV:Body>
  </SOAP-ENV:Envelope>
```

