

## Implementation Guide

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**Prescription Monitoring Program (PMP) Medication History  
NCPDP Script Standard Version 10.6**

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Revised: **March 2018**

Version **1.2**

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## Table of Contents

|   |           |
|---|-----------|
| <b>1. DOCUMENT CHANGE HISTORY .....</b>                     | <b>3</b>  |
| <b>2. INTRODUCTION.....</b>                                 | <b>3</b>  |
| <b>3. PROCESS FLOW.....</b>                                 | <b>6</b>  |
| <b>4. WEB SERVICES TRANSACTION REQUIREMENTS .....</b>       | <b>6</b>  |
| <b>5. FILE NAMING CONVENTIONS.....</b>                      | <b>8</b>  |
| <b>6. TRANSACTION STRUCTURE.....</b>                        | <b>8</b>  |
| <b>7. TRANSACTION SAMPLES.....</b>                          | <b>16</b> |
| <b>8. ACKNOWLEDGEMENT AND ERROR HANDLING PROCESSES.....</b> | <b>19</b> |

## 1. DOCUMENT CHANGE HISTORY

| DOCUMENT NAME: Implementation Guide – PMP Medication History |            |   |   |
|--|------------|---|---|
| Version  | Issue Date | Modified By                                   | Comments/Reason   |
| 1.0  | 3/11/2015  | Rhonda May,<br>Anthony Shaver,<br>Kelly Smith | First draft of PMP Medication History                                 |
| 1.0  | 4/29/2015  | Julie Tran                                    | Made revisions to NCPDP Request Transport Layer and Body fields       |
| 1.0  | 11/02/2015 | Rhonda May                                    | Finalize initial version of NCPDP version 10.6 after successful pilot |
| 1.1  | 10/21/2016 | Rhonda May                                    | Corrected error in description of fields in response message header   |
| 1.2  | March 2018 | Rhonda May                                    | Updated to include web services information                           |

## 2. INTRODUCTION

### 2.1. Overview

The Washington State Department of Health (DOH) operates a clinical data repository of dispensed medications, known as the Prescription Monitoring Program or PMP. That repository represents a medication history of controlled substance (Schedule II - V) prescriptions filled in licensed pharmacies or dispensed from licensed practitioners under Washington State law. Access to that data is provided via the Health Information Exchange (HIE) to licensed practitioners with a valid, current registration in the online Washington State PMP system, making a secure query from a health information system connected to the HIE.

The response provided from the PMP database via the HIE is based on the authentication of the requestor's license in the Washington State online PMP system and a match of the patient record requested. OneHealthPort (OHP) has developed two different versions of NCPDP Script standards for medication history. **This implementation guide details information on the transactions transmitted via the OHP HIE using the NCPDP SCRIPT Standard version 10.6.** The NCPDP Script 10.6 version of the PMP transaction was developed in support of electronic health record systems certified for meaningful use that are tied to the 10.6 standard for electronic prescribing.

The DOH vendor for the PMP repository may at some point broker queries to the national exchange or other state PMP vendors. All transactions traded through the OHP HIE will be translated by the DOH vendor to NCPDP standards.

The OHP HIE will programmatically prepare messages for delivery to the DOH PMP vendor. Responses from the DOH vendor will be transformed at the HIE to return the standard NCPDP transaction response to the requesting party.

The S&I Framework PDMP & Health IT Integration workgroup has successfully piloted the NCPDP version 10.6 RxHistory request/response transaction. Other standards for interoperability for the

PDMP transaction are still being piloted. When the S&I Framework workgroup establishes a final standard, this transaction may be adjusted to comply with the standard.

Effective in March, 2018 in addition to the asynchronous version of the PMP transaction, OneHealthPort established a web service connectivity for trading the PMP transaction. There is no change in the transaction content submitted by, or returned to trading partners. This change is only a connectivity change.

In the event the transaction changes, this document will be updated to reflect the changes, a copy posted to the OHP HIE website and shared with all current trading partners interested in the Prescription Monitoring Program transaction.

## 2.2. Scope

This implementation guide defines the query/response transactions for Medication History to/from the Washington State Department of Health Prescription Monitoring Program (PMP) repository. The scope of this transaction is for licensed healthcare providers authorized by statute, accessing patient medication history from the Washington State DOH PMP repository only. This guide is unique to **OneHealthPort**.

## 2.3. Terms and Acronyms

| Term/Acronym   | Description   |
|----------------|---|
| NCPDP          | National Council for Prescription Drug Programs - a not-for-profit, ANSI-accredited, standards development organization               |
| PMP            | Prescription Monitoring Program   |
| HIE            | Health information exchange   |
| DOH            | State of Washington Department of Health  |
| SCRIPT         | The NCPDP standard used for medication history queries and responses  |
| Appriss Health | The PMP vendor that acquired former vendor (HID – Health Information Designs) and is currently operating the PMP database for the DOH |
| OHP            | Refers to OneHealthPort   |
| CA             | Certificate Authority   |

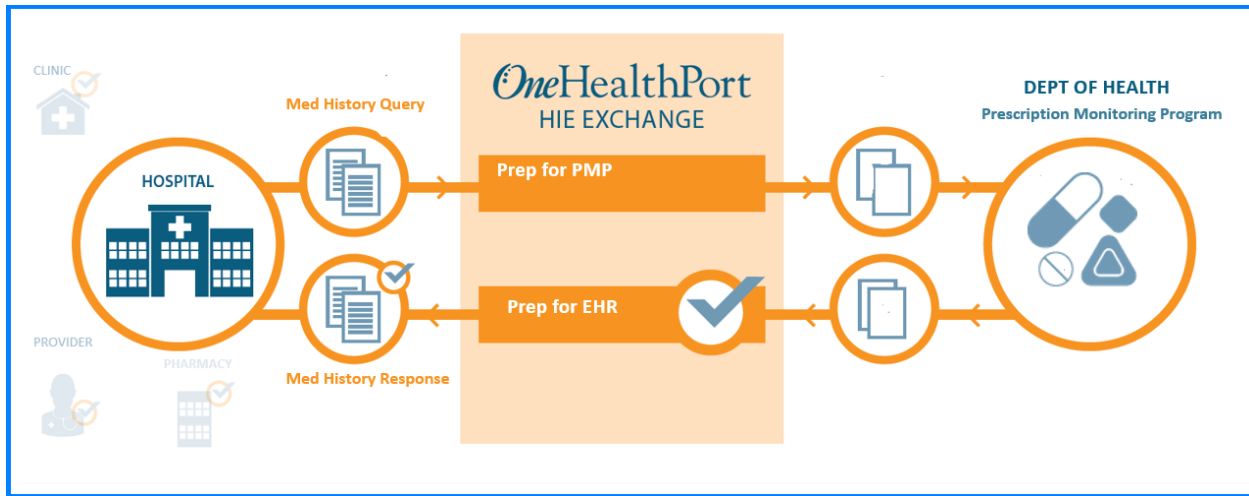
## 2.4. Assumptions

- Requestors of medication history from the DOH PMP repository have registered in the Washington State online PMP at <http://www.wapmp.org/practitioner/pharmacist/>.
- An organization planning to automate the queries can request to use the license of a Medical Director or facility. Organizations must contact the Department of Health PMP program director for education and information about the responsibilities for use of a practitioner or facility license, before implementation.
- All transactions between the HIE and requesting systems will utilize one of the following connectivity methods:
  - The Activator or an approved AS2 connection for the secure transport of the transactions both in and outbound (asynchronous transaction).

- A web service connection through appropriate certificate exchange and message encryption (synchronous transaction).
- In response to Medication history queries to DOH PMP, responses returned will be transferred to trading partners as XML files.
  - Web service processing will return the xml file to the trading partner as a synchronous response.
  - Trading partners using the activator or an approved AS2 connection will access and move the files through their Activators or AS2 tools.

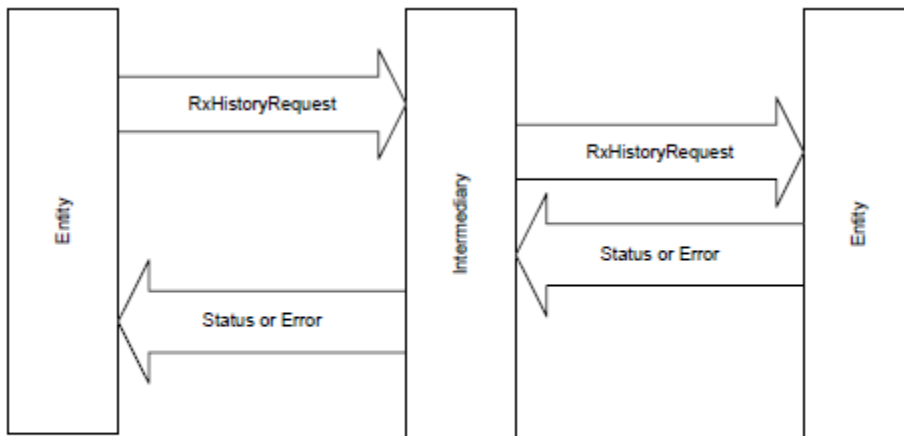
### 3. PROCESS FLOW

#### 3.1. High Level Process – query from Trading Partner via HIE



#### 3.2. Message Handling Visual Aid

The OHP HIE is a secure intermediary between requesting practices, hospitals, pharmacies or other licensed healthcare professionals requesting a patient medication history from the PMP clinical repository in Washington State. The Washington State Prescription Monitoring Program (PMP) is hosted by the Department of Health’s contracted vendor Appriss Health. Appriss Health houses all data and authenticates all requests by checking to see if the license of the requestor is associated with an active account.



Source: NCPDP Script Standard: Flow for a RxHistoryRequest with a Status or Error response through an intermediary. (Simplified version)

### 4. WEB SERVICES TRANSACTION REQUIREMENTS

#### 4.1 Certificate Requirements

The OneHealthPort HIE web services use the open internet to allow maximum bandwidth for message exchange. Certificate Authority issued certificates are used to sign and encrypt the messages using full Public Key Infrastructure (PKI) sent via a secured channel (https).

Organizations choosing web services are required to provide certificates to the OneHealthPort HIE. Only certificates from a third-party certificate authority are accepted for use. The same CA issued certificate may be use with both the production and UAT (test) environments. In addition, if a trading partner has already exchanged certificate information for other OneHealthPort web service transactions, that same certificate can be used for PMP transaction processing.

#### **Certificate requirement details:**

- Certificates supplied must be from a commercial certificate authority – self-signed certificates will not be accepted
- The same certificate may be used with the production and UAT (test) environments
- 2048-bit SSL Secure Sockets Layer with TLS Encryption
- 256 bit encryption
- SHA-2
- Standard or Basic SSL certificate for a single Domain name (Wildcard or multi-domain is not required unless that is your organization’s standard)
- Validity option: 1-3 years
- Preferred format - A digital certificate will be required for secure exchange of data. This may be in the form of either a DER encoded binary X.509 (.cer) or Cryptographic Message Syntax Standard PKCS #7 (.p7b, .p7c). If a .p7b/.p7c file is going to be used please export the entire certificate chain for use during the connectivity process
- Provide full certificate chain from a third-party certificate authority PLUS the public key.
  - The OneHealthPort public key will be used to encrypt the medication history queries in-bound to the web services gateway.
  - The trading partner public key will be used to encrypt medication history responses out-bound from the web services gateway to the trading partner.

## **4.2 Certificate Handling**

The certificate generated for trading partner connectivity to the HIE is unique for each partner. The trust relationship is created between each partner and the OneHealthPort HIE through execution of the HIE Participation Agreement.

Each trading partner will only require the certificate of the OneHealthPort HIE to trade with the entire OneHealthPort HIE trading community. The OneHealthPort HIE is designed as a spoke and hub model with a single connection from each participant (trading partner) to the HIE (Hub). Data will flow from the sending party to the HIE and then outbound to the designated receiving party.

All the transactions to OneHealthPort HIE will be done using certificate based Mutual Authentication. Trading Partner and OneHealthPort HIE will need to exchange certificates prior to establishing the secure connection.

From a high-level point of view, the process of authenticating and establishing an encrypted channel using certificate-based mutual authentication involves the following steps:

1. A client requests access to a protected resource/Service.
2. The server presents its certificate to the client.
3. The client verifies the server's certificate.
4. If successful, the client sends its certificate to the server.
5. The server verifies the client's credentials.
6. If successful, the server grants access to the protected resource requested by the client.

### 4.3 Endpoints for PMP Web Service Transaction

Endpoint URLs are provided by the OneHealthPort for use by the organization when implementing web services to the CDR. The PMP web service is a POST transaction and uses a REST API sending XML over HTTPS, similar to how organizations currently exchange medication history queries with SureScripts or other pharmacy benefits management database systems. As a REST API transaction, no WSDL is required.

OneHealthPort HIE UAT (test) Environment:

Endpoint - [https://uat-onehealthport-api.axwaycloud.com:8099/ncdpd\\_requests](https://uat-onehealthport-api.axwaycloud.com:8099/ncdpd_requests)

Production system endpoint will be provided upon successful completion of testing.

## 5. FILE NAMING CONVENTIONS

### 5.5 Special Naming Convention

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

For the AS2 Connectivity, whatever naming convention is used by the request submitter will be seen in the response, preceded by "PMP".

## 6. TRANSACTION STRUCTURE

### 6.1 XML Transaction Structure

The requestor will supply the populated NCPDP Script 10.6 medication history query. The response will be formatted to reflect the NCPDP Script 10.6 medication response format.



### 6.1.1 Transaction Representation

6.1.1.1. In the table below, the NCPDP Script Medication History Request and Response are represented, including the transport header and body.

|  | Data element                             | Description/Business Logic   | Req = R<br>Opt = O<br>Cond = C | XML element  |
|--|--|--|--------------------------------|--|
| NCPDP<br>Request<br>Transport<br>Layer |  |  |                                |  |
|  | XML declaration                          | Standard XML declaration.  | R                              | <?xml version="1.0"?>  |
|  | Message                                  | Wrapper for the entire message. Includes XML namespace declarations.   | R                              | <Message xmlns="http://www.ncdpd.org/schema/SCRIPT" release="006" version="010"> |
|  | Header                                   | Wrapper for the header.  | R                              | <Header></Header>  |
|  | To                                       | Indicates the intended message recipient. <b>Must be:</b> WA-OHP Must contain a Qualifier attribute: ZZZ - Mutually defined  | R                              | <To Qualifier="ZZZ"> <b>WA-OHP</b> </To>   |
|  | From                                     | Indicates the sender of the message. <b>Use the HIE routing ID assigned by OHP for response to be routed back to requesting HIE member organization, for example: 7uycso00.</b> Must contain a Qualifier attribute: ZZZ - Mutually defined | R                              | <From Qualifier="ZZZ"> <b>7uycso00</b> </From>                                   |
|  | 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> <b>abcd1234xyz789</b> </MessageID>                                   |
|  | Sent time                                | The time and date of the transmission. In the format CCYY-MM-DDThh:mm:ssZ.   | R                              | <SentTime> <b>2013-07-23T12:15:37Z</b> </SentTime>                               |
|  | Security                                 | Wrapper for security information. Not used by OHP.   | R                              | <Security></Security>  |
|  | Username Token                           | Wrapper for User Name  | O                              | <UsernameToken></UsernameToken>  |
|  | Username                                 | User name. Not used by OHP.  | O                              | <Username></Username>  |
|  | Sender                                   | Wrapper for authorized sender.   | R                              | <Sender></Sender>  |
|  | Tertiary identification                  | Used to identify PMP authorized licensed practitioner. <b>Must be a valid WA State DOH license number, and preregistered in the WA State PMP program e.g. PH00012345.</b>  | R                              | <TertiaryIdentification> <b>PH00012345</b> </TertiaryIdentification>             |
| Receiver                               | Wrapper for receiver of response message | R  | <Receiver></Receiver>          |  |

|                           | Data element   | Description/Business Logic  | Req = R<br>Opt = O<br>Cond = C | XML element  |
|---------------------------|--|---|--------------------------------|--|
|                           | Tertiary identification  | Used to identify where to send the response transaction   | R                              | <TertiaryIdentification> <b>WA-OHP</b> </TertiaryIdentification> |
|                           | Test Message   | Element typically included in NCPDP 10.6 standard required for header, although not used by OHP or PMP system.  | R                              | <TestMessage>1</TestMessage>                                     |
|                           | Tertiary Identifier  | Used to classify the transaction as a “fill” or “medication history” request, as opposed to a “dispense” or “e-prescription”. PMP queries are medication history requests and data in the tag should always be <b>FIL</b> | R                              | <TertiaryIdentifier> <b>FIL</b> </TertiaryIdentifier>            |
| <b>NCPDP Request Body</b> | <b>Minimum XML Elements Necessary to generate PMP response</b> |   |                                |  |
|                           | Body   | Wrapper for the body.   | R                              | <Body></Body>  |
|                           | Rx History Request   | Wrapper for the Rx History Request  | R                              | <RxHistoryRequest></RxHistoryRequest>                            |
|                           | Patient section  | Wraps patient information   | R                              | <Patient></Patient>  |
|                           | Patient identification   | Wraps patient identification  | R                              | <Identification></Identification>                                |
|                           | Social security number   | Patient social security number <b>NOTE: If SSN is not known, remove Patient Identification and SSN xml tags from request xml file.</b>  | O                              | <SocialSecurity></SocialSecurity>                                |
|                           | Patient name   | Wraps patient name  | R                              | <Name></Name>  |
|                           | Last name  | Patient last name   | R                              | <LastName></LastName>  |
|                           | First name   | Patient first name  | R                              | <FirstName></FirstName>  |
|                           | Gender   | Patient gender  | R                              | <Gender></Gender>  |
|                           | Date of birth  | Wraps patient date of birth   | R                              | <DateOfBirth></DateOfBirth>                                      |
|                           | Date   | Patient date of birth, without time. Format=CCYY-MM-DD (CC=Century YY=Year MM=Month DD=Day)   | R                              | <Date></Date>  |
|                           | Address  | Wraps patient address   | R                              | <Address></Address>  |
|                           | Address line 1   | First line of patient's address   | R                              | <AddressLine1></AddressLine1>                                    |
|                           | Address line 2   | Second line of patient's address. Use only if address line 1 exists.  | C                              | <AddressLine2></AddressLine2>                                    |
|                           | City   | City of patient address   | R                              | <City></City>  |

| Data element                          | Description/Business Logic   | Req = R<br>Opt = O<br>Cond = C | XML element   |
|---------------------------------------|--|--------------------------------|---|
| State                                 | State of patient address   | R                              | <State></State>   |
| Zip code                              | Zip code of patient address. 5 or 9 digits   | R                              | <ZipCode></ZipCode>   |
| Benefits coordination                 | Wraps consent information  | R                              | <BenefitsCoordination></BenefitsCoordination>   |
| Effective Date                        | Wraps effective date   | R                              | <EffectiveDate></EffectiveDate>   |
| Date                                  | Effective date, without time. Format=CCYY-MM-DD (CC=Century YY=Year MM=Month DD=Day)   | R                              | <Date></Date>   |
| Expiration Date                       | Wraps expiration date  | R                              | <ExpirationDate></ExpirationDate>   |
| Date                                  | Expiration date, without time. Format=CCYY-MM-DD (CC=Century YY=Year MM=Month DD=Day)  | R                              | <Date></Date>   |
| Consent                               | Y - Patient gave consent for prescriber to receive the medication history from any prescriber.<br>N - Patient consent not given.<br>P - Patient gave consent for prescriber to only receive the medication history this prescriber prescribed.<br>X - Parental/Guardian consent on behalf of a minor for prescriber to receive the medication history from any prescriber.<br>Z - Parental/Guardian consent on behalf of a minor for prescriber to only receive the medication history this prescriber prescribed. | R                              | <Consent></Consent>   |
| <b>NCPDP Response Transport Layer</b> |  |                                |   |
| XML declaration                       | Standard XML declaration.  | R                              | <?xml version="1.0" encoding="UTF-8"?>  |
| Message                               | Wrapper for the <b>entire</b> message. Includes XML namespace declarations.  | R                              | <SCRIPT:Message xmlns:SCRIPT="http://www.ncdp.org/schema/SCRIPT" version="010" release="006"> |
| Header                                | Wrapper for the transport header.  | R                              | <SCRIPT:Header></SCRIPT:Header>   |
| To                                    | Indicates the intended message recipient. <b>Must be: HIE routing ID assigned by OHP for response to be routed back to requesting HIE member organization.</b> (For example: 7uycso03.) Must contain a Qualifier attribute: ZZZ - Mutually defined   | R                              | <SCRIPT:To Qualifier="ZZZ">7uycso03</SCRIPT:To>   |

| Data element               | Description/Business Logic  | Req = R<br>Opt = O<br>Cond = C | XML element   |
|----------------------------|---|--------------------------------|---|
| From                       | Indicates the sender of the message. <b>Must be: WA-OHP</b> . Must contain a Qualifier attribute: ZZZ - Mutually defined                                  | R                              | <SCRIPT:From Qualifier="ZZZ">WA-OHP</SCRIPT:From>       |
| 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                              | <SCRIPT:MessageID></SCRIPT:MessageID>                   |
| Relates To 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. |                                | <SCRIPT:RelatesToMessageID></SCRIPT:RelatesToMessageID> |
| Sent time                  | The time and date of the transmission. In the format CCYY-MM-DDThh:mm:ss.   | R                              | <SCRIPT:SentTime></SCRIPT:SentTime>                     |
| <b>NCPDP Response Body</b> | <b>Script Body</b>  | R                              | <Script:Body></Script:Body>                             |
| Script Rx History Response | Wraps body of Response Approval/Denied  | R                              | <SCRIPT:RxHistoryResponse></SCRIPT:RxHistoryResponse>   |
| Response                   | Wraps SCRIPT request status   | R                              | <SCRIPT:Response></SCRIPT:Response>                     |
| Approved                   | Indicates approval and wraps reference number. Only occurs if RxHistoryRequest was approved.  | C                              | <SCRIPT:Approved></SCRIPT:Approved>                     |
| Denied                     | Indicates denial and wraps reference number. Only occurs if RxHistoryRequest was denied.  | C                              | <SCRIPT:Denied></SCRIPT:Denied>                         |
| Reference number           | Request reference number. Echoed back from the RxHistoryRequest.  | R                              | <SCRIPT:ReferenceNumber></SCRIPT:ReferenceNumber>       |
| Patient section            | Wraps patient information   | R                              | <SCRIPT:Patient></SCRIPT:Patient>                       |
| Patient name               | Wraps patient name  | R                              | <SCRIPT:Name></SCRIPT:Name>                             |
| Last name                  | Patient last name   | R                              | <SCRIPT:LastName></SCRIPT:LastName>                     |
| First name                 | Patient first name  | R                              | <SCRIPT:FirstName></SCRIPT:FirstName>                   |
| Gender                     | Patient gender  | R                              | <SCRIPT:Gender></SCRIPT:Gender>                         |
| Date of birth              | Wraps patient date of birth   | R                              | <SCRIPT:DateOfBirth></SCRIPT:DateOfBirth>               |
| Date                       | Patient date of birth, without time. Format=CCYY-MM-DD (CC=Century YY=Year MM=Month DD=Day)   | R                              | <SCRIPT:Date></SCRIPT:Date>                             |
| Address                    | Wraps patient address   | R                              | <SCRIPT:Address></SCRIPT:Address>                       |
| Address line 1             | First line of patient's address   | R                              | <SCRIPT:AddressLine1></SCRIPT:AddressLine1>             |
| Address line 2             | Second line of patient's address. Use only if address line 1 exists.  | C                              | <SCRIPT:AddressLine2></SCRIPT:AddressLine2>             |

| Data element                      | Description/Business Logic   | Req = R<br>Opt = O<br>Cond = C | XML element   |
|-----------------------------------|--|--------------------------------|---|
| City                              | City of patient address  | R                              | <SCRIPT:City></SCRIPT:City>                                 |
| State                             | State of patient address   | R                              | <SCRIPT:State></SCRIPT:State>                               |
| Zip Code                          | Zip Code of patient address  | R                              | <SCRIPT:ZipCode></SCRIPT:ZipCode>                           |
| Benefits coordination             | Wraps consent information  | R                              | <SCRIPT:BenefitsCoordination></SCRIPT:BenefitsCoordination> |
| Consent                           | Y - Patient gave consent for prescriber to receive the medication history from any prescriber.<br>N - Patient consent not given.<br>P - Patient gave consent for prescriber to only receive the medication history this prescriber prescribed.<br>X - Parental/Guardian consent on behalf of a minor for prescriber to receive the medication history from any prescriber.<br>Z - Parental/Guardian consent on behalf of a minor for prescriber to only receive the medication history this prescriber prescribed. | R                              | <Script:Consent></Script:Consent>                           |
| Medication dispensed <sup>1</sup> | Wraps the information for one medication dispensed. May occur up to 300 times.   | C                              | <SCRIPT:MedicationDispensed></SCRIPT:MedicationDispensed>   |
| Drug description                  | Description of the drug  | C                              | <SCRIPT:DrugDescription></SCRIPT:DrugDescription>           |
| Drug coding                       | Wraps drug coding information  | C                              | <SCRIPT:DrugCoded></SCRIPT:DrugCoded>                       |
| Product code                      | Wraps drug coding information  | C                              | <SCRIPT:ProductCode></SCRIPT:ProductCode>                   |
| Drug code                         | Drug code; type of code is qualified by the drug code qualifier. Typically an NDC code.  | C                              | <SCRIPT:ProductCodeQualifier></SCRIPT:ProductCodeQualifier> |
| Drug quantity                     | Wraps drug quantity information  | C                              | <SCRIPT:Quantity></SCRIPT:Quantity>                         |
| Quantity value                    | The numeric quantity of drug prescribed.   | C                              | <SCRIPT:Value></SCRIPT:Value>                               |
| Quantity qualifier                | 38 - Original Quantity<br>40 - Remaining Quantity<br>87 - Quantity Received<br>-QS - Quantity sufficient as determined by the dispensing pharmacy. Quantity to be based on established dispensing protocols between the prescriber and pharmacy/pharmacist.<br>CF - Compound Final Quantity  | C                              | <SCRIPT:CodeListQualifier></SCRIPT:CodeListQualifier>       |
| Unit Source Code                  | Unit of measure code for the given quantity value.   | C                              | <SCRIPT:UnitSourceCode></SCRIPT:UnitSourceCode>             |
| Unit Potency Code                 | Unit Potency Code  | C                              | <SCRIPT:PotencyUnitCode></SCRIPT:PotencyUnitCode>           |

| Data element                        | Description/Business Logic   | Req = R<br>Opt = O<br>Cond = C | XML element   |
|-------------------------------------|--|--------------------------------|---|
| Days supply                         | Days supply  | C                              | <SCRIPT:DaysSupply></SCRIPT:DaysSupply>   |
| Substitutions                       | Substitutions  | C                              | <SCRIPT:Substitutions></SCRIPT:Substitutions>   |
| Written date                        | This wraps the date written  | C                              | <SCRIPT:WrittenDate></SCRIPT:WrittenDate>   |
| Date                                | Written date of prescription without the time.<br>Format=YYYY MM DD        | C                              | <SCRIPT:Date></SCRIPT:Date>   |
| Last fill date                      | This wraps the last fill date  | C                              | <SCRIPT:LastFillDate></SCRIPT:LastFillDate>   |
| Date                                | Last fill date of the prescription without the time.<br>Format= YYYY MM DD | C                              | <SCRIPT:Date></SCRIPT:Date>   |
| Pharmacy <sup>2</sup>               | This wraps pharmacy information  | C                              | <SCRIPT:Pharmacy>   |
| Identification                      | This wraps pharmacy identifying information                                | C                              | <SCRIPT:Identification></SCRIPT:Identification>   |
| Identification data                 | Pharmacy identifying information including NCPDP ID, DEA number            | C                              | <SCRIPT:NCPDPID></SCRIPT:NCPDPID><br><SCRIPT:DEANumber></SCRIPT:DEANumber><br><SCRIPT:MutuallyDefined></SCRIPT:MutuallyDefined>   |
| Pharmacy Name                       | Pharmacy name  | C                              | <SCRIPT:StoreName></SCRIPT:StoreName>   |
| Pharmacy Address                    | Address information  | C                              | <SCRIPT:AddressLine1></SCRIPT:AddressLine1><br><SCRIPT:AddressLine2></SCRIPT:AddressLine2><br><SCRIPT:City></SCRIPT:City><br><SCRIPT:State></SCRIPT:State><br><SCRIPT:ZipCode></SCRIPT:ZipCode> |
| Communication Numbers               | This wraps Communication Numbers   | C                              | <SCRIPT:CommunicationNumbers></SCRIPT:CommunicationNumbers>   |
| Communication                       | This wraps communication data  | C                              | <SCRIPT:Communication></SCRIPT:Communication>   |
| Number                              | Number   | C                              | <SCRIPT:Number></SCRIPT:Number>   |
| Qualifier                           | Qualifier  | C                              | <SCRIPT:Qualifier></SCRIPT:Qualifier>   |
| Prescriber information <sup>3</sup> | This wraps Prescriber information  | C                              | <SCRIPT:Prescriber></SCRIPT:Prescriber>   |
| Identification                      | This wraps prescriber identification information                           | C                              | <SCRIPT:Identification></SCRIPT:Identification>   |
| Identifiers                         | Prescriber identifiers   | C                              | <SCRIPT:DEANumber></SCRIPT:DEANumber><br><SCRIPT:NCPDPID></SCRIPT:NCPDPID><br><SCRIPT:MutuallyDefined></SCRIPT:MutuallyDefined>   |
| Prescriber Name                     | This wraps Prescriber name information                                     | C                              | <SCRIPT:Name></SCRIPT:Name>   |
| Prescriber Name fields              | Last and first names   | C                              | <SCRIPT:LastName></SCRIPT:LastName><br><SCRIPT:FirstName></SCRIPT:FirstName>  |
| Prescriber Address                  | This wraps prescriber address information                                  | C                              | <SCRIPT:Address></SCRIPT:Address>   |

| Data element          | Description/Business Logic   | Req = R<br>Opt = O<br>Cond = C | XML element   |
|-----------------------|------------------------------|--------------------------------|---|
| Address fields        | Address information          | C                              | <SCRIPT:AddressLine1></SCRIPT:AddressLine1><br><SCRIPT:AddressLine2></SCRIPT:AddressLine2><br><SCRIPT:City></SCRIPT:City><br><SCRIPT:State></SCRIPT:State><br><SCRIPT:ZipCode></SCRIPT:ZipCode> |
| History Source        | History Source Wrapper       | C                              | <SCRIPT:HistorySource></SCRIPT:HistorySource>   |
| Source <sup>4</sup>   | Source wrapper               | C                              | <SCRIPT:Source></SCRIPT:Source>   |
| Source qualifier      | Source qualifier             | C                              | <SCRIPT:SourceQualifier></SCRIPT:SourceQualifier>   |
| Source Reference      | Script reference wrapper     | C                              | <SCRIPT:Reference></SCRIPT:Reference>   |
| Reference Information | Reference information fields | C                              | <SCRIPT:IDValue></SCRIPT:IDValue><br><SCRIPT:IDQualifier></SCRIPT:IDQualifier>  |
| Source Reference      | Source Reference data        | C                              | <SCRIPT:SourceReference></SCRIPT:SourceReference>   |
| Fill number           | Fill number information      | C                              | <SCRIPT:FillNumber></SCRIPT:FillNumber>   |

Information with Superscripts: <sup>1</sup>, <sup>2</sup>, <sup>3</sup>, and <sup>4</sup> may repeat up to 300 times depending on various services via pharmacies, prescribers, and sources used by subject of search.

## 7. TRANSACTION SAMPLES

### 7.1. Request Body– xml Sample (Includes transport header and body)

```
<?xml version="1.0"?>
<Message version="010" release="006" xmlns="http://www.ncdp.org/schema/SCRIPT">
  <Header>
    <To Qualifier="ZZZ">WA-OHP</To>
    <From Qualifier="ZZZ">7uyco03</From>
    <MessageID>217823</MessageID>
    <SentTime>2015-10-08T19:49:01Z</SentTime>
    <Security>
      <UsernameToken>
        <Username>2104</Username>
      </UsernameToken>
      <Sender>
        <TertiaryIdentification>PH12345</TertiaryIdentification>
      </Sender>
      <Receiver>
        <TertiaryIdentification>WA-OHP</TertiaryIdentification>
      </Receiver>
    </Security>
    <TestMessage>1</TestMessage>
    <TertiaryIdentifier>FIL</TertiaryIdentifier>
  </Header>
  <Body>
    <RxHistoryRequest>
      <Prescriber>
        <Identification>
          <DEANumber>BA2397443</DEANumber>
          <NPI>1000001895</NPI>
          <MutuallyDefined>7uyco03</MutuallyDefined>
        </Identification>
        <Specialty>207R00000X</Specialty>
        <ClinicName>TES DEPARTMENT</ClinicName>
        <Name>
          <LastName>PrescriberLN</LastName>
          <FirstName>PrescriberFN</FirstName>
        </Name>
        <Address>
          <AddressLine1>555 North Way</AddressLine1>
          <AddressLine2>Building 101</AddressLine2>
          <City>Anytown</City>
          <State>WA</State>
          <ZipCode>99999</ZipCode>
          <PlaceLocationQualifier>AD2</PlaceLocationQualifier>
        </Address>
        <CommunicationNumbers>
          <Communication>
            <Number>6082719100</Number>
            <Qualifier>TE</Qualifier>
          </Communication>
        </CommunicationNumbers>
      </Prescriber>
    </RxHistoryRequest>
  </Body>
</Message>
```



```

        </CommunicationNumbers>
    </Prescriber>
    <Patient>
        <Name>
            <LastName>Doe</LastName>
            <FirstName>Jane</FirstName>
        </Name>
        <Gender>F</Gender>
        <DateOfBirth>
            <Date>1956-01-19</Date>
        </DateOfBirth>
        <Address>
            <AddressLine1>123 Main Street</AddressLine1>
            <City>AUBURN</City>
            <State>AL</State>
            <ZipCode>36830</ZipCode>
        </Address>
    </Patient>
    <BenefitsCoordination>
        <EffectiveDate>
            <Date>2012-01-01</Date>
        </EffectiveDate>
        <ExpirationDate>
            <Date>2015-10-08</Date>
        </ExpirationDate>
        <Consent>Y</Consent>
    </BenefitsCoordination>
</RxHistoryRequest>
</Body>
</Message>

```

## 7.2. Response– xml Sample (Includes header and body)

```

<?xml version="1.0" encoding="UTF-8"?>
<SCRIPT:Message release="006" version="010" xmlns:SCRIPT="http://www.ncdp.org/schema/SCRIPT">
    <SCRIPT:Header>
        <SCRIPT:To Qualifier="ZZZ">7uyco03</SCRIPT:To>
        <SCRIPT:From Qualifier="ZZZ">WA-OHP</SCRIPT:From>
        <SCRIPT:MessageID>217823</SCRIPT:MessageID>
        <SCRIPT:RelatesToMessageID>217823</SCRIPT:RelatesToMessageID>
        <SCRIPT:SentTime>2015-10-08T15:16:32-05:00</SCRIPT:SentTime>
    </SCRIPT:Header>
    <SCRIPT:Body>
        <SCRIPT:RxHistoryResponse>
            <SCRIPT:Response>
                <SCRIPT:Approved>
                    <SCRIPT:ReferenceNumber>7uyco03</SCRIPT:ReferenceNumber>
                </SCRIPT:Approved>
            </SCRIPT:Response>
            <SCRIPT:Patient>
                <SCRIPT:Name>
                    <SCRIPT:LastName>Doe</SCRIPT:LastName>
                    <SCRIPT:FirstName>Jane</SCRIPT:FirstName>

```

```

</SCRIPT:Name>
<SCRIPT:Gender>F</SCRIPT:Gender>
<SCRIPT:DateOfBirth>
  <SCRIPT:Date>1956-01-19</SCRIPT:Date>
</SCRIPT:DateOfBirth>
<SCRIPT:Address>
  <SCRIPT:AddressLine1>123 Main Street</SCRIPT:AddressLine1>
  <SCRIPT:City>AUBURN</SCRIPT:City>
  <SCRIPT:State>AL</SCRIPT:State>
  <SCRIPT:ZipCode>36830</SCRIPT:ZipCode>
</SCRIPT:Address>
</SCRIPT:Patient>
<SCRIPT:BenefitsCoordination>
  <SCRIPT:Consent>N</SCRIPT:Consent>
</SCRIPT:BenefitsCoordination>
<SCRIPT:MedicationDispensed>
  <SCRIPT:DrugDescription>ANDROGEL 1.62% GEL PUMP</SCRIPT:DrugDescription>
  <SCRIPT:DrugCoded>
    <SCRIPT:ProductCode>00051846233</SCRIPT:ProductCode>
    <SCRIPT:ProductCodeQualifier>ND</SCRIPT:ProductCodeQualifier>
  </SCRIPT:DrugCoded>
  <SCRIPT:Quantity>
    <SCRIPT:Value>75</SCRIPT:Value>
    <SCRIPT:CodeListQualifier>87</SCRIPT:CodeListQualifier>
    <SCRIPT:UnitSourceCode>AC</SCRIPT:UnitSourceCode>
    <SCRIPT:PotencyUnitCode>C38046</SCRIPT:PotencyUnitCode>
  </SCRIPT:Quantity>
  <SCRIPT:DaysSupply>30</SCRIPT:DaysSupply>
  <SCRIPT:Substitutions>0</SCRIPT:Substitutions>
  <SCRIPT:WrittenDate>
    <SCRIPT:Date>2012-04-03</SCRIPT:Date>
  </SCRIPT:WrittenDate>
  <SCRIPT>LastFillDate>
    <SCRIPT:Date>2012-04-03</SCRIPT:Date>
  </SCRIPT>LastFillDate>
  <SCRIPT:Pharmacy>
    <SCRIPT:Identification>
      <SCRIPT:NCPDPID>0</SCRIPT:NCPDPID>
      <SCRIPT:DEANumber>0148923</SCRIPT:DEANumber>
      <SCRIPT:MutuallyDefined>0148923</SCRIPT:MutuallyDefined>
    </SCRIPT:Identification>
    <SCRIPT:StoreName>ABC PHARMACY</SCRIPT:StoreName>
    <SCRIPT:Address>
      <SCRIPT:AddressLine1>4371 SOUTH ST</SCRIPT:AddressLine1>
      <SCRIPT:City>MONTGOMERY</SCRIPT:City>
      <SCRIPT:State>AL</SCRIPT:State>
      <SCRIPT:ZipCode>36601</SCRIPT:ZipCode>
    </SCRIPT:Address>
    <SCRIPT:CommunicationNumbers>
      <SCRIPT:Communication>
        <SCRIPT:Number>0</SCRIPT:Number>
        <SCRIPT:Qualifier>TE</SCRIPT:Qualifier>
      </SCRIPT:Communication>
    </SCRIPT:CommunicationNumbers>
  </SCRIPT:Pharmacy>
</SCRIPT:MedicationDispensed>
</SCRIPT:BenefitsCoordination>
</SCRIPT:Patient>

```

```

        </SCRIPT:CommunicationNumbers>
    </SCRIPT:Pharmacy>
    <SCRIPT:Prescriber>
        <SCRIPT:Identification>
            <SCRIPT:DEANumber>BA9999999</SCRIPT:DEANumber>
            <SCRIPT:NCPDPID>0</SCRIPT:NCPDPID>
            <SCRIPT:MutuallyDefined>BA9999999</SCRIPT:MutuallyDefined>
        </SCRIPT:Identification>
        <SCRIPT:Name>
            <SCRIPT:LastName>PAIN, NO</SCRIPT:LastName>
            <SCRIPT:FirstName>?</SCRIPT:FirstName>
        </SCRIPT:Name>
        <SCRIPT:Address>
            <SCRIPT:AddressLine1>240 PILL LANE</SCRIPT:AddressLine1>
            <SCRIPT:City>PRATTVILLE</SCRIPT:City>
            <SCRIPT:State>AL</SCRIPT:State>
            <SCRIPT:ZipCode>36066</SCRIPT:ZipCode><
        /SCRIPT:Address>
    </SCRIPT:Prescriber>
    <SCRIPT:HistorySource>
        <SCRIPT:Source>
            <SCRIPT:SourceQualifier>P2</SCRIPT:SourceQualifier>
            <SCRIPT:Reference>
                <SCRIPT:IDValue>0148923</SCRIPT:IDValue>
                <SCRIPT:IDQualifier>DH</SCRIPT:IDQualifier>
            </SCRIPT:Reference>
        </SCRIPT:Source>
        <SCRIPT:SourceReference>1122333</SCRIPT:SourceReference>
        <SCRIPT:FillNumber>0</SCRIPT:FillNumber>
    </SCRIPT:HistorySource>
</SCRIPT:MedicationDispensed>
</SCRIPT:RxHistoryResponse>
</SCRIPT:Body>
</SCRIPT:Message>

```

## 8. ACKNOWLEDGEMENT AND ERROR HANDLING PROCESSES

### 8.1. Acknowledgement

The medication history response will in effect be the acknowledgement for this transaction.

### 8.2. OHP-HIE AS2 Sample Error Message for missing required fields in Medication History Request

Entities submitting a Medication History request with required fields missing from the transport header will receive an error message from the OHP-HIE. The message returned will be a “**Response Message Processing Error**” or **ResMPE**. A sample ResMPE xml follows:

```

<?xml version="1.0" encoding="ISO-8859-1"?>
<ErrorResponse status="Failure">
    <Product>HIE Integrator Engine</Product>

```

```

<Date>2013-08-30 10:02:15</Date>
<SenderID>7uyco03</SenderID>
<CoreID>ci1377882134954.172943@axway-vm097_te</CoreID>
<DocumentName>PMP_TestFile - WithErrors.xml</DocumentName>
<DocumentType>PMP_Request</DocumentType>
<Message>[XML - 0]: Too few occurrences of
element='Message[1]/Header[1]/Security[1]/Sender[1]/SecondaryIdentification'. Found = 0.
Min = 1. Document line 15 position 4.</Message>
</ErrorResponse>

```

### 8.3. Sample Error Message from PMP – Invalid Requestor

The xml sample below demonstrates the medication history response that will be received when an **invalid requestor** has initiated the request to the PMP repository.

```

<?xml version="1.0" encoding="UTF-8"?>
<s:Fault xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Code>
    <s:Value>s:Receiver</s:Value>
  </s:Code>
  <s:Reason>
    <s:Text xml:lang="">An error was detected while executing the Web Service request. (10893)</s:Text>
  </s:Reason>
  <s:Detail>
    <Exception xmlns:i="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:x="http://www.w3.org/2001/XMLSchema"
      xmlns="http://schemas.datacontract.org/2004/07/System">
      <ClassName xmlns="" i:type="x:string">System.Exception</ClassName>
      <Message xmlns="" i:type="x:string">ERROR: Invalid Requestor</Message>
      <Data xmlns="" i:nil="true"/>
      <InnerException xmlns="" i:nil="true"/>
      <HelpURL xmlns="" i:nil="true"/>
      <>Stack trace string</>
      <RemoteStack trace string</>
      <RemoteStackIndex xmlns="" i:type="x:int">0</RemoteStackIndex>
      <ExceptionMethod xmlns="" i:nil="true"/>
      <HResult xmlns="" i:type="x:int">-2146233088</HResult>
      <Source xmlns="" i:type="x:string">11d1def534ea1be0:-966ce2a:14d40e925e9:-7f82#60</Source>
      <WatsonBuckets xmlns="" i:nil="true"/>
    </Exception>
  </s:Detail>
</s:Fault>

```

### 8.4. Sample Error Message from PMP

The xml sample below demonstrates the medication history response that will be received when patient or prescription information is **not found** in the PMP repository.

```

<?xml version="1.0" encoding="UTF-8"?>
<SCRIPT:Message release="006" version="010" xmlns:SCRIPT="http://www.ncdpd.org/schema/SCRIPT">
  <SCRIPT:Header>
    <SCRIPT:To Qualifier="ZZZ">7uyco03</SCRIPT:To>
  </SCRIPT:Header>
</SCRIPT:Message>

```

```
<SCRIPT:From Qualifier="ZZZ">WA-OHP</SCRIPT:From>
<SCRIPT:MessageID>217827</SCRIPT:MessageID>
<SCRIPT:RelatesToMessageID>217827</SCRIPT:RelatesToMessageID>
<SCRIPT:SentTime>2015-10-08T15:16:32-05:00</SCRIPT:SentTime>
</SCRIPT:Header>
<SCRIPT:Body>
  <SCRIPT:Error>
    <SCRIPT:Code>900</SCRIPT:Code>
    <SCRIPT:Description>NotFound</SCRIPT:Description>
  </SCRIPT:Error>
</SCRIPT:Body>
</SCRIPT:Message>
```

### 8.5. Web Services Responses

Web services response codes will return as follows:

- 200 – Success (Message response returns with script data)
- 500 – PMP response errors (Message response returns with errors, i.e. NotFound)
- 400 – Authentication failure (Message response return where PMP system will not let transaction process, i.e. invalid requestor)
- 500 – Internal Server Error (Message response for bad request, i.e. required field in the message header is empty)