

Prescription Drug Monitoring Program & HIT Integration Initiative

Implementation Guide

Version 1.0

September 9, 2014

Version History

Version Number	Revision Date	Author/ Editor	Revisions
1.0	6/27/14	Divya/Rita	Modified Initiative Overview (Section 1.1)
1.0	7/9/14	Rita	Updates made to: Intended Audience (Section 1.3), Actors and Roles (Section 1.5)
1.0	7/22/14	Rita	Section 1: Separated Pre/Post conditions from System Requirements Section 2: Reworded Implementation Approach Standards (Section 2.1.2)
1.0	8/1/14	Rita	Removed IG outline description text for Introduction sections (Section 1). Retained description text for Section 2 until we are through drafting the Implementation Approach.
1.0	8/13/14	Rita	Removed Pharmacy Request and Response data elements replicated from what was initially defined for EHR request and response data elements in response to community consensus on 8/12 All-Hands around data elements requirements for both providers and pharmacies and there being no difference in what Pharmacy and EHR transactions should contain. Updated text to reflect that Health IT systems include both EHR and Pharmacy systems.
1.0	9/3/14	Alex	Updated HL7 Sections, including transformation tables, data element mappings, conformance statements, and coded examples. Included Appendix tables: Value sets, data type conversions, data types.

Open Items	Questions/Revisions		Section
Revision Date			
6/27/14	 Questions to be answered (from 6/26/2014 SPWG meeting): What transforms have to take place for each standard to conform to PMIX specification? Can data elements required in SCRIPT/V2 but not supported in PMIX be ignored by the PDMP Hub and/or PDMP? Can the reverse also be ignored? Differences in payload and container configurations? If PDMP Hubs require envelope architecture as part of PMIX, do the standards stemming from EHR support such structure? Can the Gateway be placed at the EHR level? 		Implementation Approach
7/8/2014	Questions from 7/8/14 All-Hands: Does a switch need to be limited to a ple medication history exchange between present the switch site. PBM/Pharmacy. (Pharmacy switches/in prioritized in this IG) Comment from Lynn Gilbertson posted switch/intermediary is not only a pharm have relationships with switch/intermedicomment. This would affect the diagram Lynne Gilbertson: this is not only pharm send medication history and use intermediated.	Actors (1.5)	
7/29/2014	Representation/Purpose of Reconstruction Representation/Purpose of Reconstruction on whether Request Names are necessary Facility ID and Facility Name (if than the dispensing pharmacy) (separate from the prescriber's Request and Response Date/Ti (it's 2 fields in PMIX)	Data Elements for EHR & Pharmacy Request tables (Sections 2.2.1.1.2 and 2.2.2.1.2)	
8/12/2014	The optional data elements are removed from the required Response Data Elements list.		Section 2.2.2.1
	Patient Identification Qualifier	Pickup Person for Prescription	
	Requestor	Pickup Person Relationship to Patient	
	Requestor Role	Pharmacist First Name	
	Requested States	Pharmacist Last Name	

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Patient Phone Number	Dispe	nser State License Identifier
Drug Branded Name	Dispe	nse State of License
RxNorm Vocab ID	Free ⁻	Text Message
ePrescription Reference Number	Sumn	nary of Response:
ePrescription Order Number	1.	# of Pharmacies
Prescription Sold Date	2.	# of Prescribers
	3.	# of Prescriptions

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1 1 Introduction

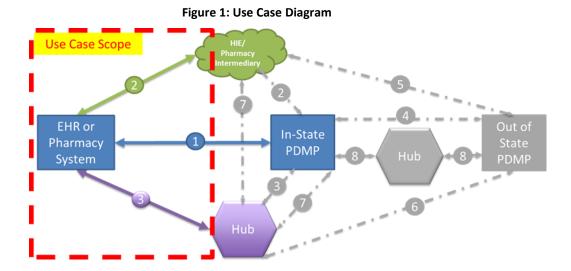
2 1.1 Initiative Overview

Prescription drug misuse and overdose is one of the fastest growing health epidemics in the United States. In response, Prescription Drug Monitoring Programs (PDMPs) have been created to address prescription drug abuse. PDMPs are state-run electronic databases – functioning in 48 U.S. states and territories – that track the dispensing of controlled prescription drugs to patients. In some states, healthcare professionals are required to check the PDMP prior to prescribing or dispensing controlled substances and drugs of concern. When available at the point of care, PDMP information can help healthcare professionals discern between patients who may need a controlled substance for legitimate medical treatment and those who may be seeking to misuse prescription drugs. It also provides an opportunity to intervene if there are signs of misuse and abuse. This underscores the need for PDMPs to share information with health IT systems in ambulatory and acute care settings.

While healthcare professionals see PDMPs as a valuable tool, they often do not use PDMPs because they are "stand-alone" systems which are cumbersome and time consuming to access. Currently, many healthcare professionals must either interrupt their workflow and log on to a separate system to access the PDMP, or write and dispense prescriptions without consulting the PDMP- potentially leaving healthcare professionals without the information needed to make important clinical decisions. One way to improve and encourage PDMP access is to reduce the number of steps it takes to access PDMP information. Health IT systems can accomplish this by querying PDMPs for prescription information and presenting this information to healthcare professionals when they access a patient's health record.

This initiative aims to bring together the PDMP and Health IT system communities to standardize the exchange of PDMP data between PDMPs and health IT systems. Doing so would enable healthcare professionals to make more informed clinical decisions through more timely, effective and convenient access to PDMP data in an effort to reduce prescription drug misuse and overdose in the United States.

For the purposes of this implementation guide, we will be focusing on hub-mediated transactions originating from the HIT System (EHR or Pharmacy System) to accommodate in-scope transactions identified in the consensus-approved use case document illustrated in Figure 1:



Hubs have varying mechanisms for supporting requests to one or more state PDMPs as well as how Requestors and/or Requesting Facilities are authorized for querying single or multiple states. While the use case determined that interstate data sharing is out-of-scope for this IG, pilots may leverage hubs that vary in how they maintain and process requests for PDMP information for one or more states. The number of states that can be included in a query is a policy decision and not for this initiative to determine.

Out-of-Scope

 PDMPs have different mechanisms of responding to queries and handling patient identity matching where there isn't a complete match on a person of interest. However patient-identity matching is out-of-scope for describing mechanisms for identity matching. Additional out of scope items were identified in the use case development phase and consensus-approved as follows:

- Defining the trigger event for how the PDMP is queried or initiated by the user (e.g., hyperlink while ordering, pressing a button, automatic trigger, etc.)*
- Addressing delegation of rights to individuals not legally authorized to prescribe or dispense medications (this is an implementation specific decision and may vary by implementation and pilot sites)*
- Third party access (this is an implementation specific decision and may vary by implementation, pilot sites and state statues and law)*
- Reporting patient prescription information from dispensers to state PDMP
- Policy-based decisions on how PDMPs are managed, accessed, and updated that vary from state to state
- Timeliness of PDMP: Currency of Data
- Storing query response from PDMP within the Health IT system
- Health IT system's structure of display for the query response
- Unsolicited reporting (PDMP pushing information out to a variety of users)

Specific implementation guidance addresses:

- Secure access and communication of PDMP data from PDMP to Health IT system
- Harmonization of data format(s) sent between PDMPs to Health IT systems
- Query/Transaction standards between the Health IT system and the state PDMP
- Standards and work with standards organizations to fill in those gaps

1.2 Purpose

This implementation guide provides implementers with guidance for real-world implementation of solutions that support standards-based interoperable communication and exchange of PDMP data (prescriptions for controlled substances and other drugs of concern) with Health IT systems. Guidance focuses on how to achieve conformance with the (data, transport, and security) standards recommended by the Office of the National Coordinator for Health Information Technology (ONC) Standards & Interoperability Framework (S&I), PDMP & Health IT Integration Initiative for the submission of request/queries from Health IT systems to PDMPs and receiving responses from PDMPs.

^{*} These items have been leveraged from the Charter

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73	1.3	Intended Audience
74		This implementation guide is intended to be informative to the following audiences:
75		 Healthcare Professionals* (Prescribers, Providers, Dispensers, etc.)
76		Pharmacies and Healthcare facilities*
77 78 79 80 81 82		 PDMPs* Privacy and Security Experts Local, State, Federal Government Agencies EHR, HIE, Pharmacy, and Intermediary vendors* Professional associations * Leveraged from the Use Case
83	1.4	Organization and Conventions of This Guide
84		This guide is organized into the following sections:
85		Introduction and overview;
86 87		Implementation approach including guidance on transactions to support system and data requirements
88		Appendices that provide acronyms and key terms, conformance statements, and references.
89	1.4.1	Conformance Verbs (Keywords)
90 91		Conformance Verb (also known as keywords) is defined throughout this implementation guide using BOLD and CAPS to denote the conformance criteria to be applied.
92 93		The keywords SHALL, SHALL NOT, SHOULD, SHOULD NOT, MAY, and MAY NOT in this document are to be interpreted as described in the <i>HL7 Version 3 Publishing Facilitator's Guide</i> ¹ :
94		■ SHALL: an absolute requirement;
95		■ SHALL NOT: an absolute prohibition against inclusion;
96 97 98		 SHOULD/SHOULD NOT: best practice or recommendation. There may be valid reasons to ignore an item, but the full implications must be understood and carefully weighed before choosing a different course;
99 100		■ MAY/MAY NOT: truly optional; can be included or omitted as the author decides with no implications.
101 102 103		Much of the conformance requirements are specified in the underlying standards. The SHALL and SHALL NOT conformance verbs relating to requirements that are only defined in this implementation guide are <u>underlined</u> as well for distinction.
104	1.4.2	Cardinality
105 106		Table 1 shows the <i>Cardinality</i> of elements used within this guide. <i>Cardinality</i> is defined by the minimum and maximum number of times that the data element may appear.
107 108		The cardinality indicators are interpreted with the following format "mn" where m represents the least and n the most.

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Table 1: Cardinality

Cardinality	Description
00	The element SHALL NOT be present
01	The element MAY be omitted and has at most one occurrence
11	The element SHALL appear once and only once
0n	The element MAY be omitted or may repeat up to n times
1n	The element SHALL appear at least once, and MAY repeat up to n times
0*	The element MAY be omitted, or it MAY repeat an unlimited number of times
1*	The element SHALL appear at least once, and MAY repeat an unlimited number of times
mn	The element SHALL appear at least m times, and at most, n times
22	The element SHALL appear two and only two times
33	The element SHALL appear three and only three times

110 **1.5** Actors

The table below outlines the possible actors identified in the use case document that participate in the exchange of PDMP data. Actors depend on systems to perform functions associated with their roles and involve exchanging content (e.g., send, receive, etc.).

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Table 2: Actors and Roles

Actor / System	Role
Health IT System	Send request
nealth if System	Receives response
PDMP	Receive request
FDIVIF	Return response
	Receive request
	Route request
PDMP Hub	 Receive response(s)
	 Package response(s)
	 Return response(s)
	Receive request
Pharmacy switch /	Route request
Intermediary*	Receive response(s)
intermediary	Package response(s)
	Return response(s)
	Receive request
	Route request
HIE System*	Receive response(s)
	Package response(s)
	Return response(s)

^{*} Pharmacy switches/intermediaries and HIE Systems are not prioritized for this IG

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116 1.6 Pre-conditions and Post-conditions

The Pre-Conditions and Post-Conditions outline what needs to be in place for PDMP and Health IT system information exchange as described by the use case functional and dataset requirements.

Pre-Conditions

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- The necessary access controls and authorization protocols based on State and/or Federal regulations (which could include patient consent¹ or privacy permissions) for any of the systems or users described, are in place
 - The Health IT system application shall provide necessary/required authorization, authentication or privacy information to the PDMP
 - The Health IT system can apply PDMP authorization requirements to restrict access to PDMP data to authorized users or authorized HIT systems
- 2. If an intermediary, such as a Hub, is used it provides necessary technology infrastructure to allow PDMP data exchange from the PDMP to the Health IT system
- 3. Parameters required to create the request in a standardized format by the Health IT system/Hub are recognized and accepted by the PDMP system or employs a translation service to do so
- 4. Health IT System or Hub is able to determine which state PDMP(s) should receive the request and at least one PDMP is specified as a state to receive the request
- 5. The PDMP system can provide a response in a standardized format which is recognized and accepted by the Hub/Health IT system
- 6. Health IT System and PDMP have a common understanding of the shared vocabulary that are required to initiate the request and provide the response
- 7. In the event a request is parsed out to other states and the other states respond back, the Health IT system, Hub (if applicable) and PDMP systems will have knowledge about the order of succession to provide the response

Post-Conditions

- 1. Health IT System has sent a request
- 2. PDMP system has received the request
- 3. PDMP system has sent a response to the Health IT system (which may include error conditions)
- 4. Health IT system has successfully received the response from the PDMP system
- 5. Health IT system can display/present/perform appropriate action based on response

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Table 3: System Requirements

Exchanges	System	Condition (from system requirements)
Request sent from Health IT	System	Health IT system can generate a query/request for PDMP data in compliance with this implementation guide
System	Health IT System	Health IT system is able to assemble authentication, authorization and consent information for PDMP system validation when required
	PDMP System	PDMP System has PDMP data available in standard format and the capability to respond appropriately.
	Hub/HIE/Pharmacy Intermediary System	Hub/HIE/Pharmacy intermediary can route request to appropriate PDMPs

¹ For this IG the assumption is no consent is required from patient to query PDMP.

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	Health IT System	Health IT system sends the request (to a PDMP, Hub, or Intermediary)
	PDMP System (or Hub/ HIE/Intermediary System)	PDMP system receives the request
Response sent to Health IT System	PDMP System or Hub/HIE/Pharmacy	Receiving PDMP/Hub/ Intermediary can authenticate requesting Health IT system's credentials, validate authorization for data access, and make determination to release patient data
	Intermediary System	Receiving PDMP/Hub/ Intermediary) can identify patient data that matches query based upon request parameters
	Hub/HIE/Pharmacy Intermediary System	The Hub/HIE/Pharmacy Intermediary System can transform the request/response information from one format to another format recognized by PDMP and Health IT System
	PDMP or Hub/HIE/Pharmacy Intermediary System	The PDMP or Hub/HIE/Pharmacy Intermediary System sends the response to the requesting Health IT System
	Health IT System	Health IT System receives the response and displays PDMP data

2 Implementation Approach

2.1 Solution Plan

The Implementation Guide will focus on the translations between Health IT standards (NCPDP SCRIPT v10.6, HL7 V2.7, ASAP Web Services v1.1) and the PDMP native standard, PMIX, in order to facilitate interoperability and seamless integration of PDMP data into health IT systems. Based on this initiative's solution planning work effort with PDMP community the initial focus of the implementation approach will highlight the PDMP Hub as the preferred mechanism for routing and retrieval of PDMP data from multiple sources. PDMP Hubs may also provide translation or transformation services similar to intermediary actors described in the Use Case. Those other actors may be HIEs or other systems or applications that enable translation somewhere between the Health IT system and the PDMP it queries.

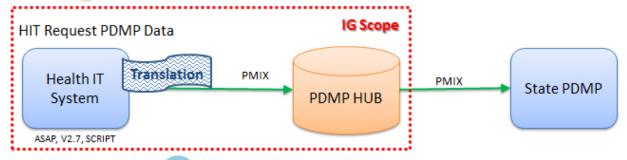
Note that although this particular implementation guide strives to standardize routing and message content based on health IT system connectivity through a PDMP Hub, it is understood that other workflows inherent to the PDMP ecosystem are capable of providing PDMP data integration. Alternate workflows that utilize intermediary actors such as HIEs or represent direct connections between Health IT Systems and PDMPs may also leverage the guidance in this artifact to enable necessary transformations for PDMP data integration.

Figure 2 below provides an illustration of the data flow between Health IT Systems, PDMP Hubs, and State PDMPs. The scope of this implementation guide is constrained to the transactions occurring between Health IT Systems and PDMP hubs, where message transformations are performed between the two entities. In certain states, regulations governing the transmission of PDMP data restrict use of PDMP Hubs or any intermediary from performing value-added services such as translations/transformations of data into different standard formats. Consequently, these scenarios imply a need for translation to occur at the Health IT System level via an interface application. The figure below demonstrates that message transformations may occur either at the Health IT System layer or in between the two systems, for example at the PDMP Hub vendor level.

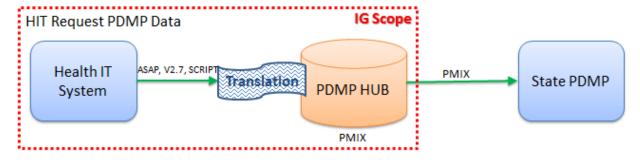
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Figure 2: Translation Protocol via PDMP Hub Workflow

1 Message transformed at Health IT System level prior to reaching PDMP Hub



2 Message transformed at the PDMP Hub level



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2.1.1 Overview

The solution plan presented here derives from analyses of standards and architectures accommodating Provider and Pharmacy workflows and prioritized by participating S&I PDMP initiative community stakeholders. High priority workflow models for both Providers and Pharmacies along with standards were considered in developing guidance for how health IT systems and PDMPs can effectively communicate and support the following implementation objectives:

- Integration of PDMP data within Electronic Health Record and Pharmacy systems;
- Specification and harmonization of standards that can be mapped/translated to those currently in use for PDMP data sharing capabilities;
- Seamless integration of PDMP data into EHR and Pharmacy systems through (standardized) queryresponse mechanism through PDMP Hubs

2.1.2 Standards

The PDMP initiative evaluated existing standards used in the community to document data elements used and also identify gaps across some common adopted standards. The purpose was to gain an understanding of the commonalities and differences in data elements used by the Actors (systems/organizations) and to identify gaps from those expected/anticipated by the community. This guide highlights the standards and specifications used to integrate PDMP data and shows how each standard contributes to interoperability between Health IT systems and PDMPs.

PMIX (the Prescription Monitoring Program Information Exchange) is important in understanding any translation that may occur within the intermediary and/or PDMP Hub vendor, as PMIX is the standard that all PDMPs and their related PDMP data sharing "hubs" use for all data exchanges. Therefore, Health IT system messages not in the PMIX format will need to be translated into PMIX during the request transaction and from PMIX back to the Health

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IT System standard in the response transaction. NCPDP SCRIPT v10.6 and HL7 v2.7 standards which are also specified in meaningful use certification criteria were identified as viable candidate standards for the requestresponse of PDMP data. ASAP Web Services v1.1 was also identified as a viable candidate standard and provides other capabilities that allow Health IT systems to directly communicate with PDMPs.

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2.2 **Transaction Details**

EHR and Pharmacy Systems may send requests through interface engines or application software at the EHR or Pharmacy, providing the PDMP Hub with a message compliant to the PMIX standard. In this case, the PDMP Hub can act simply as a routing mechanism. Health IT Systems may alternatively query the PDMP Hub by sending HL7 v2.7, NCPDP SCRIPT v10.6, ASAP Web Services v1.1 messages to the PDMP Hub via a trusted translation service to be routed to one or more selected PDMPs. The PDMP Hub subsequently provides the necessary infrastructure to facilitate necessary translation in the form of a PMIX compliant message, to then be routed to the selected PDMP(s). Hubs have varying mechanisms for supporting requests to one or more state PDMPs as well as how Requestors and/or Requesting Facilities are authorized for querying single or multiple states.

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Table 3: Transaction Details

Transaction	Query Message Content + Header Standard	Routing/Container Information Standard	Location of Translation Service/Actor/ translation
Health IT →Hub	NCPDP SCRIPT v10.6	PMIX	Interface Engine
Health IT → Hub	NCPDP SCRIPT v10.6	PMIX	PDMP Hub Vendor Solution
Health IT → Hub	HL7 v2.7	PMIX	Interface Engine
Health IT → Hub	HL7 V2.7	PMIX	PDMP Hub Vendor Solution
Health IT → PDMP	ASAP Web Services v1.1	PMIX	PDMP Hub/Interface Engine Vendor Solution

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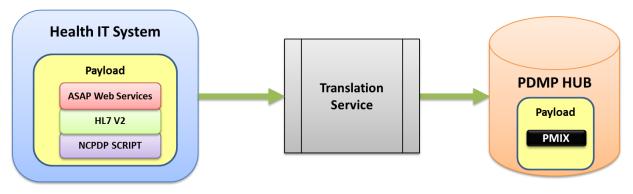
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2.2.1 Request to PDMP via PDMP Hub (HIT Systems-PDMP Hub)

Figure 3 below demonstrates the workflow of the Health IT system sending a query to the PDMP Hub, using one of three standards: ASAP Web Services v1.1, HL7 V2.7, and NCPDP SCRIPT v10.6. A translation service, provided either by the PDMP Hub vendor or a third party, offers the necessary infrastructure to convert the outbound message into a PMIX compliant PDMP request. The message content is extracted in a manner that retains message level security and data integrity, transformed into a PMIX-structured request recognizable by the PDMP Hub. Note that the implementation guide is agnostic as to the location or entity performing such translation services.

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Figure 3: HIT Request for PDMP Data via PDMP Hub Service



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Request Transaction via PDMP Hub:

- 228 Step 1: The Health IT system sends a request for PDMP Data on a specific person of interest across specified U.S. 229 States leveraging one of three applicable standards: ASAP Web Services v1.1, HL7 v2.7, and NCPDP SCRIPT v10.6.
- 230 Step 2: A translation service/entity receives the PDMP request from the Health IT system and executes transformation/translation of the PDMP request message, including message body, header, and routing 231 232 information sections of the request construct.
 - Step 3: PDMP Hub then receives the request in the form of a PMIX message. Note that the PDMP Hub may perform necessary authentication/authorization protocol prior to routing the patient query to state PDMPs or other hubs.

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2.2.1.1 Data Elements for the Request

The Required Data Elements in the Request Transaction table below (Table 4) reflects the data elements identified by the S&I PDMP community as required for the request. Note that the request data elements described throughout the artifact are organized into two general categories: "Routing Information" and "Message Body". Data elements described in both categories may be located in varying sections of the request message based on the configuration of the standard used to initiate the query. PDMP Hub vendors performing translation/transformation services assume responsibility of parsing the message to extract necessary data elements and develop a PMIX-compliant request to the target PDMP(s).

Some Required Data Elements are conditionally required and asterisks (*) indicate the possible value the element can include from the possible set of values where available, and only 1 is required. This is specified in within conformance statements found in Transformation details (Section 2.3) where requirements for what requests emanating from EHR or Pharmacy systems contain are addressed. For example, the option to choose an identifier other than NPI, like DEA, accommodates requestors that may not have an NPI or PDMPs that, like Rhode Island, use the DEA# to identify prescribers and dispensers.

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Table 4: Required Data Elements in the Request Transaction

	Table 4: Required Data Elements in the Request Transaction					
	Element Name	Description				
	Routing Information					
Request	Requestor	Person that requests PDMP data				
	Requestor Role	Specifies the role of the Healthcare Professional Digit indicators (codes) are used that are tied to specific roles.				
	Disclosing State(s)*2	State PDMPs that should receive the request. MAY NOT BE REQUIRED/TRANSMITTED IN SOME STATES/QUERIES.				
	Request ID	Identification associated with transaction instance				
	Request date/ timestamp	Date and Time of request				
Requestor	NPI Number*	National Provider Identifier				
Identifier	DEA Number*	Drug Enforcement Agency unique identification number.				
	State License ID*	A license that gives the individual the right to prescribe or dispense drugs for patients.				
	State of License*	State that issues the State License ID				
Requesting	DEA Number*	Drug Enforcement Agency unique identification number.				
Facility ID	NCPDP Number*	Identifier assigned by the National Council for Prescription Drug Programs. (Used only for dispensing facility)				
	NPI*	National Provider Identifier				
Requesting Facility	Facility Name	Name of the entity from which the Healthcare Professional sends the request (e.g. pharmacy name, hospital name, name of group practice, etc.)				
	State code of Requesting Facility	U.S. Postal Service state code; consumes Requesting State field (state where request was initiated)				
		Message Body				
Patient	First Name	First name of patient				
	Last Name	Last name of patient				
	Date of Birth	Date patient was born				
Request Prescription Date Range	Start Date	Used in a request for prescription data to indicate the beginning of the date range in which the responding PMP should search for prescriptions matching the search criteria.				
- Zate Hange	End Date	Used in a request for prescription data to indicate the beginning of the date range in which the responding PMP should search for prescriptions matching the search criteria.				
NOTE: Canditi		i				

NOTE: Conditionally Required Data elements have asterisks (*), meaning that the tagged items indicate the possible value the element can include from the given set of values where available, and only 1 is required.

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² Not all Health IT Systems will provide the Disclosing State information in the request transaction or Disclosing State field may not be used in certain implementation scenarios

2.2.1.2 Data Element Mapping

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The table below provides a high-level mapping of required PMIX data elements to selected standards (NCPDP SCRIPT v10.6, HL7 v2.7, and ASAP Web Services v1.1) for the Request transaction. Note that PMIX does not explicitly require certain data elements within the IEPD and schemas. Data elements in the PMIX columns that are denoted as NR reflect data elements to be transferred within a request/response based on the requirements of this initiative's Implementation Guide that do not have a distinct xpath within the current PMIX IEPD. It is up to PMIX to provide specifications for how to handle these data elements for the second leg of the transaction (i.e. after the request is routed from the intermediary to the state(s) PDMP.

Table 5: Field Name Data Element Mapping for a PMIX Request Transaction

Data Element	PMIX XML DE Name	NCPDP SCRIPT v10.6 XML DE Name	HL7 v2.7 DE Name	ASAP Web Services v1.1 XML DE Name		
Routing Information						
Requestor	<pre><pmix:requestor> </pmix:requestor></pre>	<lastname> <firstname></firstname></lastname>	QPD.3 Requestor	<requestor></requestor>		
Requestor Role	<pre><pmix:requestorrole> </pmix:requestorrole></pre>	NA ³	QPD.4 RequestorRole	<requestorrole></requestorrole>		
Disclosing State	<pre><pmix:disclosingstate> </pmix:disclosingstate></pre>	<state></state>	QPD.5 DisclosingState	<disclosingstate></disclosingstate>		
Request ID	<pre><pmix:requestid> </pmix:requestid></pre>	<messageid></messageid>	QPD.2 QueryTag	<requestid></requestid>		
Request date/ timestamp	NR ⁴	<senttime></senttime>	QPD.6 RequestDateTime	<querydate></querydate>		

³ NA = Not available

NA = Not available

⁴ NR = Not Relevant. An "NR" in the PMIX DE Name column indicates that while the PDMP hub or gateway requires the data element in a received request (e.g. Request date/timestamp), the PMIX message sent from the hub or gateway to the PMP will not include the field. Therefore, a PMIX equivalent for the data element is not of relevance to this IG.

Data Element		PMIX XML DE Name	NCPDP SCRIPT v10.6 XML DE Name	HL7 v2.7 DE Name	ASAP Web Services v1.1 XML DE Name
	DEA Number*	<nc:identificationid> </nc:identificationid>	<deanumber></deanumber>	QPD.7 RequestorDEA	<deanumber></deanumber>
Requestor Identifier	NPI Number*	<nc:identificationid></nc:identificationid>	<npi></npi>	QPD.8 RequestorNPI	<npi></npi>
identinei	State License <nc:identificationid> ID*5 </nc:identificationid>	NA	QPD.9 RequestorStateLicense	<statelicensenumber></statelicensenumber>	
	State of License* ⁶	<nc:identificationjurisdiction Text> nText></nc:identificationjurisdiction 	NA	QPD.9.3.1 RequestorStateLicense.Assig ningAuthority	<stateissuedid></stateissuedid>
	DEA Number*	<nc:identificationid></nc:identificationid>	<deanumber></deanumber>	QPD.10 RequestingFacilityDEA	<deanumber></deanumber>
Requesting Facility ID	NCPDP Number*	<nc:identificationid></nc:identificationid>	<ncpdpid> (only if dispensing facility)</ncpdpid>	QPD.11 RequestingFacilityNCPDP	<ncpdpproviderid></ncpdpproviderid>
	NPI*	<nc:identificationid></nc:identificationid>	<npi></npi>	QPD.12 RequestingFacilityNPI	<npi></npi>

⁵ In NCPDP SCRIPT, DEA Number or NPI Number will be used.

 $^{^{\}rm 6}$ Required if the State License ID is used for the Identifier.

Data Element		PMIX XML DE Name	NCPDP SCRIPT v10.6 XML DE Name	HL7 v2.7 DE Name	ASAP Web Services v1.1 XML DE Name
Requesting Facility	Name	<nc:organizationdoingbusine ssAsName> essAsName></nc:organizationdoingbusine 	<storename> or <clinicname></clinicname></storename>	QPD.13 RequestingFacilityName	<facilityname></facilityname>
	State code of Facility	<nc:locationstateuspostalse rviceCode> erviceCode></nc:locationstateuspostalse 	<state></state>	QPD.14 RequestingFacilityState	<locationstateuspostalservic eCode></locationstateuspostalservic
			Message Body		
	First Name	<nc:persongivenname> </nc:persongivenname>	<firstname></firstname>	QPD.15.2 Given Name	<givenname></givenname>
Patient	Last Name	<nc:personsurname> </nc:personsurname>	<lastname></lastname>	QPD.15.1 Family Name	<surname></surname>
	Date of Birth	<nc:date></nc:date>	<dateofbirth></dateofbirth>	QPD.16 Date/Time of Birth	<birthdate></birthdate>
Request Prescription Date Range	Start Date	<pre><pmp:requestprescriptionda< td=""><td><effectivedate></effectivedate></td><td>QPD.17 DispenseDate.LL</td><td><daterangebegin></daterangebegin></td></pmp:requestprescriptionda<></pre>	<effectivedate></effectivedate>	QPD.17 DispenseDate.LL	<daterangebegin></daterangebegin>
	End Date	<pre><pmp:requestprescriptionda< td=""><td><expirationdate></expirationdate></td><td>QPD.18 DispenseDate.UL</td><td><daterangeend></daterangeend></td></pmp:requestprescriptionda<></pre>	<expirationdate></expirationdate>	QPD.18 DispenseDate.UL	<daterangeend></daterangeend>

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2.2.2 PDMP Hub Response to Health IT Systems

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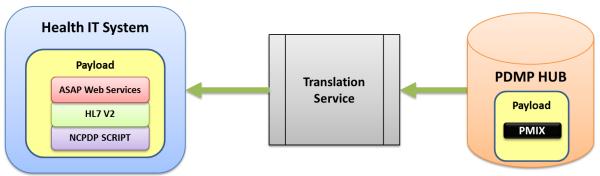
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Figure 4 below demonstrates the workflow of a PDMP Hub providing a PDMP response to the Health IT System and the corresponding message content standards. The same translation service implicated in the request transaction provided either by the PDMP Hub vendor or a separate third party offers the necessary infrastructure to convert the inbound response from PMIX into the standard supported by the Health IT System. The message is received by the Health IT System as either an ASAP Web Services v1.1 XML report, an HL7 v2.7 message, or NCPDP SCRIPT v10.6 Medication History response.

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Figure 4: PDMP Hub Response Workflow



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Response Transaction via PDMP Hub:

- Step 1: The PDMP Hub sends back a PDMP response to the translation service with PDMP data collected across requested states and other hubs in the PMIX message format.
- 282 Step 2: The same translation service implicated in the request transaction, translates/transforms the PDMP Hub 283 response into a format supported by the requesting Health IT System.
 - Step 3: The Health IT System receives the PDMP response in one of three format standards: ASAP Web Services v1.1 message, HL7 v2.7 message, or NCPDP SCRIPT v10.6 Medication History message.

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2.2.2.1 **Data Elements for PDMP Response**

- This section provides a list of data elements in the RESPONSE transaction between the PDMP Hub and the HIT System. The Required Data Elements for the Response shown in Table 6 reflects the data elements identified by the S&I PDMP community as required for the response.
- Note that the response data elements, similar to that of the request, described throughout the artifact are organized into two general categories: "Routing Information" and "Message Body". Data elements described in both categories may be located in varying sections of the response message based on the configuration of the standard used by the Health IT System. PDMP Hub vendors performing translation/transformation services assume responsibility of parsing the PMIX response to extract necessary data elements and construct a final response message conformant to the standard leveraged by the Health IT System.

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Table 6: Required Data Elements for the Response Transaction

	Element Name	Description	
		Routing Information	
Response Date	/Timestamp	Date and Time of Response (1 field)	
Prescription Response Data	Response Prescription Date Range (Start Date)	Date range begin date of PDMP data patient report ("PMP Request Response Date Range")	
nesponse Data	Response Prescription Date Range (End date)	Date range end date of PDMP data patient report ("PMP Request Response Date Range")	
Disclosing State	e(s)	State PDMPs providing PDMP data with patient history	
Request ID		Identifier assigned in the Request. The Request ID is sent back in the Response.	
		Message Body	
Patient	Patient First Name	First name of patient	
	Patient Last Name	Last name of patient	
	Patient Date of Birth	Patient's birth date	
	Patient Sex	Patient's gender	
	Patient Street Address	Street address information for patient	
	Patient City Address	City name	
	Patient State Code	US Postal Service State Code	
	Patient Zip Code	US Postal Service Zip Code	
Patient	SSN*	Social Security Number of patient	
Identifier ⁷	License ID*	Driver's license number of patient	
	State of License*	The state issuing the patient's driver's license listed above	
	Passport ID*	Patient's Passport ID number	
	Military ID*	Patient's Military ID number	
	Tribal Identifier*	Patient's Tribal identification number	
Prescription	Prescription Filled Date	The date the prescription was filled at the pharmacy	
	Prescription Written Date	The date the prescription was written by the prescriber	
	Prescription Number	Serial number assigned to the prescription by the pharmacy	
	Drug Name ⁸	Product name of the drug prescribed to the patient, as sent to the PDMP from the pharmacy in reporting.	

⁷ Patient Identifier data is required to be provided in the response where permitted by policy and when available

⁸ Drug Name data is required to be provided in the response, on the condition that the data is available to be sent

	Element Name	Description	
	Drug Strength ⁹	Strength of the dispensed product. This value can be derived by the product ID contained in the NDC code.	
	Dosage Form ¹⁰	Describes the physical form in which the medication will be delivered to the body. (Tablet, capsule, extended release tablet, syrup, injectable, etc)	
	Drug Quantity	Number of metric units dispensed in the metric decimal format	
	Days of Supply	Calculated or estimated number of days the medication will be consumed by the patient based on prescriber orders	
	Refill Number	Refill value of which the current dispensing event represents.	
	Refills Authorized	Number of refills authorized by the prescriber	
	Partial Fill Indicator	Indicator used to signal if a prescription was only partially filled by the pharmacy	
	Method of Payment	Method used to purchase the prescription	
Drug	Product ID Qualifier	Qualifies the value given in the Product ID field (i.e. RxNorm ID, NDC number, etc.), as sent to the PDMP from the pharmacy in reporting. Also indicates if it's a compound.	
	Product ID	Value of the Product ID, as sent to the PDMP from the pharmacy in reporting.	
Dispenser Organization	Dispenser Organization Name (Facility)	Name of the pharmacy or dispensing facility	
Organization	Dispenser Organization Street Address ¹¹	Street address information for the pharmacy	
	Dispenser Organization City Address ¹²	City name of pharmacy	
	Dispenser Organization State Code ¹³	US Postal Service State Code of pharmacy	
	Dispenser Organization Zip Code ¹⁴	US Postal Service Zip Code of pharmacy	
	Dispenser Organization Phone Number ¹⁵	Phone number of the pharmacy	

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⁹ Drug Strength data is required to be provided in the response, on the condition that the data is available to be sent

¹⁰ Dosage Form data is required to be provided in the response, on the condition that the data is available to be sent

¹¹ Dispenser Organization Street Address data is required to be provided in the response, on the condition that the data is available to be sent

¹² Dispenser Organization City Address data is required to be provided in the response, on the condition that the data is available to be sent

 $^{^{13}}$ Dispenser Organization State Code data is required to be provided in the response, on the condition that the data is available to be sent

¹⁴ Dispenser Organization Zip Code data is required to be provided in the response, on the condition that the data is available to be sent

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	Element Name	Description	
Dispenser	DEA Number*	Identifier assigned to the pharmacy by the DEA	
Organization (Pharmacy	NCPDP Number*	Identifier assigned to the pharmacy by NCPDP	
Identifier)	NPI Number*	Identifier assigned to the dispenser by NPPES	
Prescriber	Prescriber First Name	First name of prescriber	
	Prescriber Last Name	Last name of prescriber	
	Prescriber Street Address ¹⁶	Prescriber's street address information	
	Prescriber City Address ¹⁷	City name associated with the prescriber	
	Prescriber State Code ¹⁸	US Postal Service State Code associated with the prescriber	
	Prescriber Zip Code ¹⁹	US Postal Service Zip Code associated with the prescriber	
Prescriber	DEA Number*	Identifying number assigned to a prescriber or facility by the DEA	
Identifier	NPI Number*	Identifier assigned to the prescriber by NPPES (Conditionally Required (if DEA not present)	
	State License* Identifier	Prescriber state license number (Conditionally Required if DEA not present)	
	State of License*	Used to identify the prescriber's licensing state (Conditionally Required (if DEA not present)	

NOTE: Conditionally Required Data elements have asterisks (*), meaning that the tagged items indicate the possible value the element can include from the given set of values where available, and only 1 is required.

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¹⁵ Dispenser Organization Phone Number data is required to be provided in the response, on the condition that the data is available to be sent

¹⁶ Prescriber Street Address data is required to be provided in the response, on the condition that the data is

¹⁷ Prescriber City Address data is required to be provided in the response, on the condition that the data is available to be sent

¹⁸ Prescriber State Code data is required to be provided in the response, on the condition that the data is available to be sent

¹⁹ Dispenser Organization Zip Code data is required to be provided in the response, on the condition that the data is available to be sent

2.2.2.2 Data Element Mapping for PDMP Response

This section provides the data element mapping for a RESPONSE message between the PMIX standard and NCPDP SCRIPT v10.6, HL7 v2.7, and ASAP Web Services v1.1 standards.

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Table 7: Field Name Data Element Mapping for a PMIX Response Transaction

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Data Element		PMIX XML DE Name	NCPDP SCRIPT v10.6 XML DE Name	HL7 v2.7 DE Name	ASAP Web Services v1.1 XML DE Name
		Ro	outing Information		
Response Dat	e/Timestamp	<pmp:reportexecutiondate></pmp:reportexecutiondate>	<senttime></senttime>	MSH.7 Date/Time of Message (date/time portion)	<responsedate></responsedate>
Response Prescription Date Range	Start Date	<pmp:reportdaterangebegin> </pmp:reportdaterangebegin>	<effectivedate></effectivedate>	QPD.17 DispenseDate.LL	<reportdaterangebegin> <reportdaterangebegin></reportdaterangebegin></reportdaterangebegin>
	End Date	<pmp:reportdaterangeend> </pmp:reportdaterangeend>	<expirationdate></expirationdate>	QPD.18 DispenseDate.UL	<reportdaterangeend> <reportdaterangeend></reportdaterangeend></reportdaterangeend>
Disclosin	g States	<pre><pmix:disclosingstate> </pmix:disclosingstate></pre>	NA	QPD.5 DisclosingState	<pre><disclosingstate></disclosingstate></pre>
Reque	est ID	NR ²⁰	<relatestomessageid></relatestomessageid>	QPD.2 QueryTag	<requestid> <requestid></requestid></requestid>

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²⁰ NR = Not Relevant. An "NR" in the PMIX DE Name column indicates that while the PDMP hub or gateway requires the data element in a received request (e.g. Request date/timestamp), the PMIX message sent from the hub or gateway to the PMP will not include the field. Therefore, a PMIX equivalent for the data element is not of relevance to this IG.

			Message Body		
	First Name	<nc:persongivenname> </nc:persongivenname>	<firstname></firstname>	PID.5.2 Given Name	<givenname></givenname>
	Last Name	<nc:personsurname> </nc:personsurname>	<lastname></lastname>	PID.5.1 Family Name	<surname></surname>
	Date of Birth	<nc:date> </nc:date>	<dateofbirth></dateofbirth>	PID.7 Date/Time of Birth	<birthdate></birthdate>
	Gender	<nc:personsexcode> </nc:personsexcode>	<gender></gender>	PID.8 Administrative Sex	<gender></gender>
Patient	Street Address	<nc:streetfulltext> </nc:streetfulltext>	<addressline1> <addressline2></addressline2></addressline1>	PID.11.1 Street Address	<street address2=""> <street address3=""></street></street>
	City Address	<nc:locationcityname> </nc:locationcityname>	<city></city>	PID.11.3 City	<city></city>
	State Code	<pre><nc:locationstateuspostalservicecode> </nc:locationstateuspostalservicecode></pre>	<state></state>	PID.11.4 State or Province	<locationstateuspostalservicecode></locationstateuspostalservicecode>
	Zip Code	<pre><nc:locationpostalcode> </nc:locationpostalcode> <nc:locationpostalextensioncode> </nc:locationpostalextensioncode></pre>	<zipcode></zipcode>	PID.11.5 Postal or ZIP code	<locationpostalcode></locationpostalcode>
	SSN*	<nc:identificationid> </nc:identificationid>	<socialsecurity></socialsecurity>	PID.3.1 ID Where PID.3.5="SSN"	<ssn></ssn>
3r 21	License	<nc:identificationid> </nc:identificationid>	NA	PID.3.1 ID Where PID3.5="DL"	<driverslicenseid></driverslicenseid>
entifie	State of License*22	<nc:identificationjurisdictiontext> </nc:identificationjurisdictiontext>	NA	PID.3.3.1 Assigning Authority Where PID3.5="DL"	<locationstateuspostalservicecode></locationstateuspostalservicecode>
Patient Identifier ²	Passport ID*	<nc:identificationid> </nc:identificationid>	NA	PID.3.1 ID Where PID3.5="PPN"	<passportid></passportid>
Pat	Military ID*	<nc:identificationid> </nc:identificationid>	NA	PID.3.1 ID Where PID3.5="MI"	<militaryid></militaryid>
	Tribal Identifier*	<nc:identificationid> </nc:identificationid>	NA	PID.3.1 ID Where PID3.5="IND"	<tribalid></tribalid>

²¹ Patient Identifier data is required to be provided in the response, on the condition that the data is available to be sent

²² Required if License is being used as the Identifier

	Filled Date	<pmp:reportdaterangebegin> </pmp:reportdaterangebegin> <pmp:reportdaterangeend> </pmp:reportdaterangeend>	<lastfilldate></lastfilldate>	RXD.3 DateTimeDispensed	<dispensedate></dispensedate>
	Written Date	<nc:date> </nc:date>	<writtendate></writtendate>	QPD.6 DispenseDate.UL	<writtendate></writtendate>
	Number	<pre><pmp:prescriptionnumbertext> </pmp:prescriptionnumbertext></pre>	<sourcereference></sourcereference>	RXD.7 PrescriptionNumber	<prescripionnumber></prescripionnumber>
	Drug Name ²³	<pre><pmp:drugproductnametext> </pmp:drugproductnametext></pre>	<drugdescription></drugdescription>	RXD.2.2 DispenseGiveCode.text	<drugname></drugname>
Prescription	Strength ²⁴	<pmp:drugstrengthtext> </pmp:drugstrengthtext>	<strengthvalue, code=""> fields</strengthvalue,>	Implied in RXD.2.2 OR RXD.16 ActualStength & RXD.17.2 ActualStrengthUnit.text	<strength></strength>
Pre	Dosage Form ²⁵	<pre><pmp:drugunitofmeasuretext></pmp:drugunitofmeasuretext></pre>	<formcode></formcode>	Implied in RXD.2.2 OR RXD.6 ActualDosageForm.text	<dosageform></dosageform>
	Quantity	<pre><pmp:dispensedquantity> </pmp:dispensedquantity></pre>	<quantity></quantity>	RXD.4 Actual Dispense Amount	<quantity></quantity>
	Days of Supply	<pmp:dayssupplycount> </pmp:dayssupplycount>	<dayssupply></dayssupply>	Calculated: RXD.4 Actual Dispense Amount / RXD.12 Total Daily Dose	<dayssupply></dayssupply>
	Refill Number	<pre><pmp:drugrefillnumbercount> </pmp:drugrefillnumbercount></pre>	<fillnumber></fillnumber>	RXD.1 DispenseSubIDCounter	<refillstatus></refillstatus>

²³ Drug Name data is required to be provided in the response, on the condition that the data is available to be sent

²⁴ Drug Strength data is required to be provided in the response, on the condition that the data is available to be sent

²⁵ Dosage Form data is required to be provided in the response, on the condition that the data is available to be sent

	Refills Authorized	<pmp:refillsauthorizedcount> </pmp:refillsauthorizedcount>	<refills></refills>	RXD.1 DispenseSubIDCounter PLUS RXD.8 NumberOfRefillsRemaining	<refillsauthorized></refillsauthorized>
	Partial Fill Indicator	<pmp:partialfillindicator> </pmp:partialfillindicator>	gap ²⁶	RXD.33 Dispense Type ="Q" is partial fill	<partialfillindicator></partialfillindicator>
	Method of Payment	<pmp:methodofpaymentcode> </pmp:methodofpaymentcode>	<note></note>	FT1.6 Transaction Type	<paymenttype></paymenttype>
Drug	Product ID Qualifier	<pre><pmp:drugcpdproductidentifier> <pmp:drugdinproductidentifier> <pmp:drughriproductidentifier> <pmp:drugndcproductidentifier> <pmp:drugupcproductidentifier> <pmp:drugupnproductidentifier></pmp:drugupnproductidentifier></pmp:drugupcproductidentifier></pmp:drugndcproductidentifier></pmp:drughriproductidentifier></pmp:drugdinproductidentifier></pmp:drugcpdproductidentifier></pre>	<productcodequalifier></productcodequalifier>	RXD.2.3 DispenseGiveCode.CodingSyst em RXD.25.3 SupplementaryCode.CodingSy stem	
	Product ID	<identificationid></identificationid>	<productcode></productcode>	RXD.2.1 DspenseGiveCode.ID RXD25.1 SupplementaryCode.ID	<productid></productid>

²⁶ NCPDP participants are concerned with use of this field misunderstanding that could occur and will discuss further if it would be added to a future version of the NCPDP SCRIPT Medication History transaction.

	Name	<nc:organizationdoingbusinessasname> </nc:organizationdoingbusinessasname>	<storename></storename>	RXD.PRT.8.1 Organization Name Where RXD.PRT.4 Participation="DP"	<pharmacyname></pharmacyname>
асу)	Street Address ²⁷	<nc:streetfulltext> </nc:streetfulltext>	<addressline1> <addressline2></addressline2></addressline1>	RXD.PRT.14.1 ParticipationAddress.Street Where RXD.PRT.4 Participation="DP"	<streetaddress2> <streetaddress3></streetaddress3></streetaddress2>
ization (Pharı	City Address ²⁸	<nc:locationcityname> </nc:locationcityname>	<city></city>	RXD.PRT.14.3 ParticipationAddress.City Where RXD.PRT.4 Participation="DP"	<city></city>
Dispenser Organization (Pharmacy)	State Code ²⁹	<nc:locationstateuspostalservicecode> </nc:locationstateuspostalservicecode>	<state></state>	RXD.PRT.14.5 ParticipationAddress.State Where RXD.PRT.4 Participation="DP"	<locationstateuspostalservicecode></locationstateuspostalservicecode>
	Zip Code ³⁰	<nc:locationpostalcode> </nc:locationpostalcode>	<zipcode></zipcode>	RXD.PRT.14.6 ParticipationAddress.ZIP Where RXD.PRT.4 Participation="DP"	<locationpostalcode></locationpostalcode>
	Phone Number ³¹	<nc:telephonenumberfullid> </nc:telephonenumberfullid>	<communicationnumber></communicationnumber>	RXD.PRT.15.1 TelephoneNumber Where RXD.PRT.4 Participation="DP"	<phone></phone>

²⁷ Dispenser Organization Street Address data is required to be provided in the response, on the condition that the data is available to be sent

²⁸ Dispenser Organization City Address data is required to be provided in the response, on the condition that the data is available to be sent

²⁹ Dispenser Organization State Code data is required to be provided in the response, on the condition that the data is available to be sent

³⁰ Dispenser Organization Zip Code data is required to be provided in the response, on the condition that the data is available to be sent

³¹ Dispenser Organization Phone Number data is required to be provided in the response, on the condition that the data is available to be sent

Dispenser Organization (Pharmacy) Identifier	DEA Number*	<nc:identificationid> </nc:identificationid>	<deanumber></deanumber>	RXD.PRT.8.10 ParticipationOrganization Where RXD.PRT.4 Participation="DP" And RXD.PRT.8.7="DEA"	<deanumber> <deanumbersuffix></deanumbersuffix></deanumber>
	NCPDP Number*	<nc:identificationid> </nc:identificationid>	<ncpdpid></ncpdpid>	RXD.PRT.8.10 ParticipationOrganization Where RXD.PRT.4 Participation="DP" And RXD.PRT.8.7="NCPDP"	<ncpdpproviderid></ncpdpproviderid>
	NPI Number*	<nc:identificationid> </nc:identificationid>	<npi></npi>	RXD.PRT.8.10 ParticipationOrganization Where RXD.PRT.4 Participation="DP" And RXD.PRT.8.7="NPI"	<nationalproviderid></nationalproviderid>
	First Name	<nc:persongivenname> </nc:persongivenname>	<firstname></firstname>	ORC.12.3 Given Name	<givenname></givenname>
	Last Name	<nc:personsurname> </nc:personsurname>	<lastname></lastname>	ORC.12.2 Family Name	<surname></surname>
Prescriber	Street Address ³²	<nc:streetfulltext> </nc:streetfulltext>	<addressline1> <addressline2></addressline2></addressline1>	ORC.24.1 Street Address	<streetaddress2> <streetaddress3></streetaddress3></streetaddress2>
Presc	City Address ³³	<nc:locationcityname> </nc:locationcityname>	<city></city>	ORC.24.3 City	<city></city>
	State Code ³⁴	<nc:locationstateuspostalservicecode> </nc:locationstateuspostalservicecode>	<state></state>	ORC.24.4 State	<locationstateuspostalservicecode></locationstateuspostalservicecode>
	Zip Code ³⁵	<nc:locationpostalcode></nc:locationpostalcode>	<zipcode></zipcode>	ORC.24.5 ZIP	<locationpostalcode></locationpostalcode>

³² Prescriber Street Address data is required to be provided in the response, on the condition that the data is available to be sent

³³ Prescriber City Address data is required to be provided in the response, on the condition that the data is available to be sent

³⁴ Prescriber State Code data is required to be provided in the response, on the condition that the data is available to be sent

³⁵ Prescriber Zip Code data is required to be provided in the response, on the condition that the data is available to be sent

Prescriber Identifier	DEA Number*	<nc:identificationid> </nc:identificationid>	<deanumber></deanumber>	ORC.PRT.5.1 ParticipationPerson.ID Where ORC.PRT.4 Participation="OP"	<deanumber> <deanumbersuffix></deanumbersuffix></deanumber>
				AND ORC.PRT.5.13 ParticipationPerson.Identifier TypeCode="DEA"	
	NPI Number*	<nc:identificationid> </nc:identificationid>	<npi></npi>	ORC.PRT.5.1 ParticipationPerson.ID Where ORC.PRT.4 Participation="OP" AND ORC.PRT.5.13	<npi></npi>
	State License Identifier*	<nc:identificationid> </nc:identificationid>	NA	ORC.12.1 ID Number with ORC.PRT.5.1 ParticipationPerson.ID Where ORC.PRT.4 Participation="OP" AND ORC.PRT.5.13 ParticipationPerson.Identifier TypeCode = "DDS" Dentist License or "MD" Medical License number	<statelicensenumber></statelicensenumber>
	State of License* ³⁶	<nc:identificationjurisdictiontext> </nc:identificationjurisdictiontext>	NA	ORC.PRT.5.9 ParticipationPerson.Assigning Authority Where ORC.PRT.4 Participation="OP" AND ORC.PRT.5.13 ParticipationPerson.Identifier TypeCode = "DDS" Dentist License or "MD" Medical License number	<stateissuedid></stateissuedid>

 $^{^{\}rm 36}$ Required if the State License ID is being used as the Identifier.

313 2.3 Transformation/Translation Details

This section describes the implementation details to transform messages between PMIX and each of the three standards used in this guide- NCPDP SCRIPT v10.6, ASAP Web Services V1.1, HL7 V2.7.

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2.3.1 Request: NCPDP SCRIPT v10.6 to PMIX

Table 8: Request Transformation Details from NCPDP SCRIPT v10.6 to PMIX

Data Element	PMIX						NCPDP SCRIPT					
	DE Name	Element Path	Option ality	Car din alit y	Data Type/ Code set	DE Name	Element Path	Optional ity	Cardinali ty	Data Type/ Code set		
			Ro	outing	Information							
Requestor	<pre><pmix:requestor> </pmix:requestor></pre>	NA	R	11	Unspecified	<lastname></lastname>	SCRIPT:RxHistoryR equest /Pharmacy /Pharmacist/ OR SCRIPT:RxHistoryR equest /Prescriber /Name/	CR	11	AN35		
Requestor Role	<pre><pmix:requestorrole> </pmix:requestorrole></pre>	/pmix:MetaData/	R	11	Unspecified	<qualifier>³⁷ Derived from Qualifier – if "P" Pharmacist if "D" Prescriber if "C" Clinic</qualifier>	SCRIPT:RxHistoryR equest /Header /From	R	11	string		

-

³⁷ Data element Requestor Role is not currently in NCPDP SCRIPT v10.6, but will be derived from the <Qualifier> field as shown above. this value with be further defined by taxonomy code mapping.

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Disclos	ing State	<pre><pmix:disclosingstat e=""> </pmix:disclosingstat></pre>	/pmix:MetaData /pmix:RoutingData/	R	11	Unspecified	<state>³⁸</state>	SCRIPT:RxHistoryR equest /Prescriber /Address OR SCRIPT:RxHistory Request /Pharmacy /Address	CR	01	string
Requ	uest ID	<pre><pmix:requestid> </pmix:requestid></pre>	/pmix:MetaData /pmix:RoutingData/	R	11		<messageid></messageid>	SCRIPT:RxHistoryR equest /Header/	R	11	AN35
-	est date/ estamp	Unspecified	Unspecified	R	11	Unspecified	<senttime></senttime>	SCRIPT:RxHistoryR equest /Header/	R	11	Date or DateTime
Request or Identifi	DEA Number*	<nc:identificationid> ></nc:identificationid>	pmp:DEANumberIdentifi er/	CR	01	nc:Identifica tionID	<deanumber></deanumber>	SCRIPT:RxHistoryR equest /Prescriber /Identification	CR	03	AN35
er	NPI Number*	<nc:identificationid> ></nc:identificationid>	pmp:NPIIdentifier/	CR	01	nc:Identifica tionID	<npi></npi>	SCRIPT:RxHistoryR equest /Prescriber /Identification	CR	03	AN35
	State License ID* ³⁹	<nc:identificationid> ></nc:identificationid>	pmp:StateLicenseldentifi er/	CR	01	nc:Identifica tionID	NA				
	State of License*	<nc:identificationj urisdictionText> </nc:identificationj urisdictionText	pmp:StateLicenseldentifi er/	CR	01	Unspecified	NA				

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⁻

³⁸ Data element Disclosing State is not currently in NCPDP SCRIPT v10.6, but will be derived from the <State> field as shown above.

³⁹ Required if License is being used as the Identifier.

⁴⁰ Required if the State License ID is being used as the Identifier.

Request ing Facility ID	DEA Number*	<nc:identificationi D> ID></nc:identificationi 	pmp:DEANumberIdentifier/	CR	01	nc:Identifica tionID	<deanumber></deanumber>	SCRIPT:RxHistoryR equest /Pharmacy /Identification> or <prescriber><ident ification></ident </prescriber>	CR	03	AN35
	NCPDP Number*	<nc:identificationi D> ID></nc:identificationi 	pmp:NCPDPIdentifier/	CR	01	nc:Identifica tionID	<ncpdpid> (only if dispensing facility)</ncpdpid>	SCRIPT:RxHistoryR equest /Pharmacy /Identification NA for Prescriber Facility ID	CR	03	AN35
	NPI*	<nc:identificationi D> ID></nc:identificationi 	pmp:NPIIdentifier/	CR	01	nc:Identifica tionID	<npi></npi>	SCRIPT:RxHistoryR equest /Pharmacy /Identification/	CR	03	AN35
Request ing Facility	Name	<nc:organizationd oingBusinessAsNa me> DoingBusinessAsN ame></nc:organizationd 	pmp:Prescription /pmp:Dispenser/	R	11	nc:Organizat ionType	<storename> or <clinicname></clinicname></storename>	SCRIPT:/RxHistory Request /Pharmacy/ OR SCRIPT:/RxHistory Request /Prescriber/	CR	01	AN35
	State code of Requesti ng Facility	<nc:locationstate de="" uspostalserviceco=""> </nc:locationstate>	pmp:Prescription /pmp:Dispenser /nc:OrganizationLocation /nc:LocationAddress /nc:StructuredAddress/	R	11	usps:USStat eCodeType	<state></state>	SCRIPT:RxHistoryR equest /Pharmacy /Address OR SCRIPT:/RxHistory Request /Prescriber /Address	CR	01	string

Message Body												
Patient Name	First Name	<nc:persongivenna me> </nc:persongivenna me>	/pmix:PMPRequest /pmp:RequestPatient /nc:PersonName/	R	11	nc:PersonNa meTextType	<firstname></firstname>	SCRIPT:RxHistoryR equest /Patient /Name	R	11	AN35	
	Last Name	<nc:personsurname > </nc:personsurname >	/pmix:PMPRequest /pmp:RequestPatient /nc:PersonName/	R	11	nc:PersonNa meTextType	<lastname></lastname>	SCRIPT:RxHistoryR equest /Patient /Name	R	11	AN35	
	Date of Birth	<nc:date> </nc:date>	/pmix:PMPRequest /pmp:RequestPatient /nc:PersonBirthDate/	R	11	niem- xsd:date	<dateofbirth></dateofbirth>	SCRIPT:RxHistoryR equest /Patient/	0	01	Date or DateTime	
Request Prescrip tion Date Range	Start Date	<pre><pmp:requestprescr iptiondaterangebegi="" n=""> </pmp:requestprescr></pre>	/pmix:PMPRequest /pmp:RequestPrescription DateRange/	R	11	niem- xsd:date	<effectivedate></effectivedate>	SCRIPT:RxHistoryR equest /BenefitsCoordinat ion/	R	11	Date or DateTime	
	End Date	<pre><pmp:requestprescr iptiondaterangeend=""> </pmp:requestprescr></pre>	/pmix:PMPRequest /pmp:RequestPrescription DateRange/	R	11	niem- xsd:date	<expirationdat e></expirationdat 	SCRIPT:RxHistoryR equest /BenefitsCoordinat ion/	R	11	Date or DateTime	

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2.3.1.1 Coded Example

323

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This section provides an example of a NCPDP SCRIPT Request transformation. The following shows a Request being made by a Pharmacist.

```
326
       <?xml version="1.0" encoding="UTF-8"?>
327
328
       <!--Sample XML file generated by XMLSpy v2011 rel. 3 sp1 (x64) (http://www.altova.com)-->
       <Message HighestVersionSupported="" release="006" version="010"</p>
329
330
       xsi:schemaLocation="http://www.ncpdp.org/schema/SCRIPT SCRIPT XML 10 6.xsd"
331
       xmlns="http://www.ncpdp.org/schema/SCRIPT" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
332
       <Header>
333
          <To Qualifier="ZZZ">3428903284</To>
          <From Qualifier="P">7701630</From>
334
335
          <MessageID>123456789AA001</MessageID>
336
          <SentTime>2014-08-21T16:00:47Z</SentTime>
337
          <Security>
           <UsernameToken>
338
339
             <Username/>
             <Password Type="PasswordDigest">String</Password>
340
341
             <Created>2014-08-21T16:00:00Z</Created>
342
343
           </UsernameToken>
344
            <Sender>
             <SecondaryIdentification>PASSWORD</SecondaryIdentification>
345
             <TertiaryIdentification/>
346
347
            </Sender>
348
           <Receiver>
349
               <SecondaryIdentification/>
350
               <TertiaryIdentification/>
351
            </Receiver>
352
          </Security>
353
       </Header>
354
       <Body>
355
        <RxHistoryRequest>
356
          <Pharmacy>
357
           <Identification>
358
             <NPI>1234567890</NPI>
359
             <DEANumber>BJ6125341</DEANumber>
360
            </ldentification>
361
            <Pharmacist>
             <LastName>BARTON</LastName>
362
363
             <FirstName>CLARA</FirstName>
364
            </Pharmacist>
            <StoreName>RITE WAY PHARMACY</StoreName>
365
366
            <Address>
367
             <AddressLine1>1 STATE STREET</AddressLine1>
368
             <City>SOMEWHERE</City>
369
             <State>VA</State>
370
             <ZipCode>015660000</ZipCode>
371
            </Address>
```

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```
374
       <CommunicationNumbers>
375
             <Communication>
376
               <Number>5554440222</Number>
377
               <Qualifier>TE</Qualifier>
378
             </Communication>
            </CommunicationNumbers>
379
        </Pharmacy>
380
381
        <Patient>
382
            <Name>
383
             <LastName>FLEMING</LastName>
384
             <FirstName>ALEXANDER</FirstName>
385
            </Name>
386
            <Gender>M</Gender>
387
            <DateOfBirth>
             <Date>1981-08-08</Date>
388
389
            </DateOfBirth>
390
          </Patient>
          <BenefitsCoordination><sup>41</sup>
391
392
            <EffectiveDate>
393
             <Date>2014-08-01</Date>
394
            </EffectiveDate>
395
            <ExpirationDate>
             <Date>2014-08-20</Date>
396
397
            </ExpirationDate>
            <Consent>N<sup>42</sup></Consent>
398
          </BenefitsCoordination>
399
400
       </RxHistoryRequest>
401
       </Body>
402
       </Message>
403
       The Request is being made by a Prescriber.
404
405
       <?xml version="1.0" encoding="UTF-8"?>
406
       <!--Sample XML file generated by XMLSpy v2011 rel. 3 sp1 (x64) (http://www.altova.com)-->
       <Message HighestVersionSupported="" release="006" version="010"</p>
407
408
       xsi:schemaLocation="http://www.ncpdp.org/schema/SCRIPT SCRIPT XML 10 6.xsd"
409
       xmlns="http://www.ncpdp.org/schema/SCRIPT" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
410
411
       <Header>
412
        <To Qualifier="ZZZ">3428903284</To>
        <From Qualifier="C">ASEUROWEDF</from>
413
414
        <MessageID>123456789AA001</MessageID>
415
        <SentTime>2014-08-21T16:00:47Z</SentTime>
416
```

417

 $^{^{41}}$ NCPDP will be adapting the Benefits Coordination date range to provide the PMP Data Request range.

⁴² Changed to N, since the IG assumes no consent is required from the patient to query PDMP.

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```
418
        <Security>
419
                   <UsernameToken>
420
                       <Username/>
                       <Password Type="PasswordDigest">String</Password>
421
422
                       <Nonce/>
423
                       <Created>2001-12-17T09:30:47Z</Created>
424
                   </UsernameToken>
425
                    <Sender>
                     <SecondaryIdentification>PASSWORD</SecondaryIdentification>
426
                     <TertiaryIdentification/>
427
428
                    </Sender>
429
                    <Receiver>
430
                     <SecondaryIdentification/>
431
                     <TertiaryIdentification/>
                    </Receiver>
432
433
        </Security>
434
       </Header>
       <Body>
435
        <RxHistoryRequest>
436
437
          <Prescriber>
           <Specialist> Physician<sup>43</sup> /Specialist>
438
439
            <Identification>
440
             <NPI>3209998001</NPI>
             <DEANumber>AX123234</DEANumber>
441
442
            </ldentification>
            <ClinicName>SMITH ASSOCIATES</ClinicName>
443
444
           <>
445
             <LastName>SMITH</LastName>
446
             <FirstName>JACK</FirstName>
447
            </Name>
448
            <Address>
449
             <AddressLine1>1801 LAWN DRIVE</AddressLine1>
450
             <City>SOMEWHERE</City>
451
             <State>MA</State>
452
             <ZipCode>015660000</ZipCode>
453
            </Address>
454
            <CommunicationNumbers>
455
             <Communication>
456
               <Number>5554440909</Number>
457
               <Qualifier>TE</Qualifier>
             </Communication>
458
            </CommunicationNumbers>
459
460
            </Prescriber>
461
            <Patient>
462
               <Name>
463
                   <LastName>JONES</LastName>
464
                    <FirstName>DEAN</FirstName>
```

 $^{^{43}}$ This Healthcare Provider Taxonomy Code Set value will be translated to the value 112 which is the PDMP/PMIX Role ID for Physician.

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```
465
                 </Name>
466
                 <>M</Gender>
                 <DateOfBirth>
467
                   <Date>1960-03-18</Date>
468
469
                 </DateOfBirth>
                 </Patient>
470
                 <BenefitsCoordination><sup>44</sup>
471
472
                   <EffectiveDate>
473
                    <Date>2014-08-01</Date>
474
                   </EffectiveDate>
475
                   <ExpirationDate>
                    <Date>2014-08-20</Date>
476
477
                   </ExpirationDate>
478
                   <Consent>N</Consent>
479
480
                   </BenefitsCoordination>
481
         </RxHistoryRequest>
482
       </Body>
483
       </Message>
484
```

485 2.3.1.2 Conformance Statements

486 This section describes what implementers must do to claim conformance with this Implementation Guide.

487 488

490

499

Request message

489 NCPDP SCRIPT RxHistoryRequest to PMIX

- 1. Each Request SHALL have *one each* of following data elements:
- 491 i. Requestor: <FirstName> <LastName>
- 492 ii. Requestor Role: <From><Qualifier>
- 493 iii. Disclosing State: <State>
- 494 iv. Request ID: <MessageID>
- 495 v. Request Date/Timestamp: <SentTime>
- 496 vi. Patient First Name: <FirstName>
- 497 vii. Patient Last Name: <LastName>
- 498 viii. Patient Date of Birth: <DateOfBirth>
 - ix. Request Prescription Date Range Begin Date: <EffectiveDate>
- 500 x. Request Prescription Date Range End Date: <ExpirationDate>
- 501 xi. Requesting Facility Name: <StoreName> or <ClinicName>
- 502 xii. State Code of Requesting Facility: <State>

⁴⁴ NCPDP will be adapting the Benefits Coordination date range to provide the PMP Data Request range.

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- 503 2. Each Request SHALL have one Requestor Identifier. The Identifier SHALL be one of the following:
- i. DEA Number: <DEANumber>
- 505 ii. NPI Number: <NPI>
- 3. The Requestor in the Request SHALL be one of the following:
- 507 i. Prescriber
- 508 ii. Dispenser

510

512

513

520

521

522

523

- 509 4. The Requestor Role in the Request SHALL be one of the following:
 - i. Dispenser: If <From><Qualifier> is "P"
- 511 ii. Prescriber: If <From><Qualifier> is "D" or "C"
 - 5. If the Requestor Role in the Request requires more specifity, the Request SHALL have a qualifier (<Specialty> 45) to provide additional information about the Requestor's role.
- 6. Each Request SHALL have *one* Requesting Facility ID. The ID SHALL be one of the following:
- i. DEA Number: <DEANumber>
- 516 ii. NCPDP Number: <NCPDPID>
- 517 iii. NPI Number: <NPI>
- 7. The Requesting Facility in the Request for a Requestor that is a Prescriber SHALL be the Prescriber Facility to which the Prescriber is affiliated i.e. <ClinicName>
 - 8. The Requesting Facility in the Request for a Requestor that is a Dispenser SHALL be the Pharmacy to which the Dispenser is affiliated i.e. <StoreName>
 - 9. The State Code of Requesting Facility in the Request SHALL be the state code of the Requesting Facility to which the Requestor is affiliated.
- 10. The Disclosing State in the Request SHALL be derived from the State Code of Requesting Facility 46.
- 525 11. Each Request SHALL have one instance of the Consent field <Consent>47

-

⁴⁵ The Specialty field will contain a value which will be further defined by taxonomy code mapping. Appendix B has Value sets with preliminary mapping for role (NCPDP mapped to 6-8 roles). The SCRIPT Standard supports the HIPAA-named NUCC Taxonomy codes for Specialty.

⁴⁶ PDMP hubs should ignore the value in this field for NCPDP request messages. Where the hub has agreements with specific state PMPs, the hub should query all of those state PMPs for the requested information and include the relevant information returned from each of the PMPs in the response to the NCPDP system.

⁴⁷ This IG assumes that patient consent is not required for a PDMP query

2.3.2 Request: ASAP Web Services v1.1 to PMIX

526

527

Table 9: Request Transformation Details from ASAP Web Services v1.1 to PMIX

Data Element		PMIX				ASAP Web Services v1.1						
Data Liement	DE Name	Element Path	Option ality	Car din alit y	Data Type	DE Name	Element Path	Optional ity	Cardinali ty	Data Type		
			Ro	outing I	nformation							
Requestor	<pre><pmix:requestor> </pmix:requestor></pre>	/pmix:PMPReques t /pmp:RequestPati ent /nc:PersonName/	R	11	Unspecified	<requestor>⁴⁸</requestor>	RequestRoutingDa ta/Requestor	R	11	string		
Requestor Role	<pre><pmix:requestorrole> </pmix:requestorrole></pre>	/pmix:MetaData/	R	11	Unspecified	<requestorrol e>⁴⁹</requestorrol 	RequestRoutingDa ta/RequestorRole	R	11	string		
Disclosing State	<pre><pmix:disclosingstate> </pmix:disclosingstate></pre>	/pmix:MetaData /pmix:RoutingDat a/	R	11	Unspecified	<disclosingstat e>⁵⁰</disclosingstat 	RequestRoutingDa ta/DisclosingState	R	1n	string		

⁴⁸ Data element <Requestor> is not currently in ASAP Web Services standard but is to be added to the next version of the standard as shown above

⁴⁹ Data element <RequestorRole> is not currently in ASAP Web Services standard but is to be added to the next version of the standard as shown above

⁵⁰ Data element <DisclosingState> is not currently in ASAP Web Services standard but is to be added to the next version of the standard as shown above

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	Request ID	<pre><pmix:requestid> </pmix:requestid></pre>	/pmix:MetaData /pmix:RoutingDat a/	R	11	Unspecified	<requestid>⁵¹</requestid>	RequestRoutingDa ta/RequestID	R	11	string
Requ	uest Date/Timestamp	Unspecified	Unspecified	R	11	Unspecified	<querydate></querydate>	AdHocPMPReques t/req/QueryDate	R	11	dateTime
	DEA Number (PrescriberID) ⁵²	<nc:identificationid> </nc:identificationid>	pmp:DEANumberl dentifier/	CR	01	nc:Identifica tionID	<deanumber></deanumber>	RequestRoutingDa ta/RequestorID/DE ANumber	CR	01	string
Identifier	NPI (Prescriber ID)	<nc:identificationid> </nc:identificationid>	pmp:NPIIdentifier /	CR	01	nc:Identifica tionID	<npi>⁵⁴</npi>	RequestRoutingDa ta/RequestorID/NP I	CR	01	string
Requestor I	State License ID (Prescriber ID)	<nc:identificationid> </nc:identificationid>	pmp:StateLicensel dentifier/	CR	01	nc:Identifica tionID	<statelicensen umber="">⁵⁵</statelicensen>	RequestRoutingDa ta/RequestorID/St ateLicenseNumber	CR	01	string
— <u>r</u>	State of License	<nc:identificationjuris dictiontext=""> <td>pmp:StateLicensel dentifier/</td><td>CR</td><td>01</td><td>nc:Identifica tionJurisdicti on</td><td><stateissuedid >⁵⁶</stateissuedid </td><td>RequestRoutingDa ta/RequestorID/St atelssuedID</td><td>CR</td><td>01</td><td>string</td></nc:identificationjuris>	pmp:StateLicensel dentifier/	CR	01	nc:Identifica tionJurisdicti on	<stateissuedid >⁵⁶</stateissuedid 	RequestRoutingDa ta/RequestorID/St atelssuedID	CR	01	string

⁵¹ Data element <RequestID> is not currently in ASAP Web Services standard but is to be added to the next version of the standard as shown above

⁵² The Requestor Identifier ID can be one of four values (DEA Number, NCPDP Provider ID, NPI, State License ID)

⁵³ Data element <DEANumber> is not currently in ASAP Web Services standard but is to be added to the next version of the standard as shown above

⁵⁴ Data element <NationalProviderID> is not currently in ASAP Web Services standard but is to be added to the next version of the standard as shown above

⁵⁵ Data element <StateLicenseNumber> is not currently in ASAP Web Services standard but is to be added to the next version of the standard as shown above

⁵⁶ Data element <StateIssuedID> is not currently in ASAP Web Services standard but is to be added to the next version of the standard as shown above

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y ID	DEA Number (Facility ID)	<nc:identificationid></nc:identificationid>	pmp:DEANumberl dentifier/	CR	01	nc:Identifica tionID	<deanumber> 57</deanumber>	RequestRoutingDa ta/RequestingFacili tyID/DEANumber	CR	01	string
Requesting Facility ID	NCPDP Number (Facility ID)	<nc:identificationid> </nc:identificationid>	pmp:NCPDPIdenti fier/	CR	01	nc:Identifica tionID	<ncpdpprovid erID>⁵⁸</ncpdpprovid 	RequestRoutingDa ta/RequestingFacili tyID/NCPDPProvid erID	CR	01	string
Re	NPI Number (Facility ID)	<nc:identificationid> </nc:identificationid>	pmp:NPIIdentifier /	CR	01	nc:Identifica tionID	<npi<sup>59</npi<sup>	RequestRoutingDa ta/RequestingFacili tyID/NPI	CR	01	string
ρλ	Facility Name	<nc:organizationdoing BusinessAsName> gBusinessAsName> <nc:organizationnam e></nc:organizationnam </nc:organizationdoing 	pmp:Prescription /pmp:Dispenser/	R	11	nc:Organizat ionType	<facilityname></facilityname>	RequestRoutingDa ta/RequestingFacili ty/FacilityName	R	11	string
Facility	State code of Requesting Facility	<nc:locationstateusp ostalServiceCode> </nc:locationstateusp ostalServiceCode>	pmp:Prescription /pmp:Dispenser /nc:OrganizationL ocation /nc:LocationAddre ss /nc:StructuredAd dress/	R	11	usps:USStat eCodeType	<locationstate UsPostalServic eCode>⁶¹</locationstate 	RequestRoutingDa ta/RequestingFacili ty/LocationStateUs PostalServiceCode	R	11	string

⁵⁷ Data element <DEANumber> is not currently in ASAP Web Services standard but is to be added to the next version of the standard as shown above

⁵⁸ Data element <NCPDPProviderID> is not currently in ASAP Web Services standard but is to be added to the next version of the standard as shown above

⁵⁹ Data element <NationalProviderID> is not currently in ASAP Web Services standard but is to be added to the next version of the standard as shown above

⁶⁰ Data element <FacilityName> is not currently in ASAP Web Services standard but is to be added to the next version of the standard as shown above

⁶¹ Data element <LocationStateUsPostalServiceCode> under State code of Requesting Facility is not currently in ASAP Web Services standard but is to be added to the next version of the standard as shown above

					Messa	age Body					
	First Name	<nc:persongiv enName> venName></nc:persongiv 	/pmix:PMPRequest /pmp:RequestPatient /nc:PersonName/	R	11	nc:PersonNa meTextType	<givenname></givenname>	AdHocPMPRequest /req/Patient/Name /GivenName	R	11	string
Patient	Last Name	<nc:personsur Name> rName></nc:personsur 	/pmix:PMPRequest /pmp:RequestPatient /nc:PersonName/	R	11	nc:PersonNa meTextType	<surname></surname>	AdHocPMPRequest /req/Patient/Name /SurName	R	11	string
	Date of Birth	<nc:date> </nc:date>	/pmix:PMPRequest /pmp:RequestPatient /nc:PersonBirthDate/	R	11	niem-xsd:date	<birthdate></birthdate>	AdHocPMPRequest /req/Patient/Birth Date	R	11	date
tion Date Range	Request Prescription Date Range (Start Date)	<pre><pmp:request prescriptionda="" terangebegin=""> </pmp:request></pre>	/pmix:PMPRequest /pmp:RequestPrescription DateRange/	R	11	niem-xsd:date	<daterangebe gin></daterangebe 	AdHocPMPRequest /req/RequestDateR ange/DateRangeBe gin	R	1.1	date
Request Prescription Date	Request Prescription Date Range (End Date)	<pre><pmp:request prescriptionda="" terangeend=""> </pmp:request></pre>	/pmix:PMPRequest /pmp:RequestPrescription DateRange/	R	11	niem-xsd:date	<daterangeen d></daterangeen 	AdHocPMPRequest /req/RequestDateR ange/DateRangeEn d	R	11	date

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529 2.3.2.1 **ASAP Web Services Coded Example (for a Request Transformation)** 530 In this example, the ASAP Web Services Standard PMP Detailed Query provides the patient name, patient date of 531 birth, request date/timestamp, and request date range within the body of the request transaction, as specified by 532 the ASAP Web Services Standard Version 1 Release 1. Data elements specified as required within this 533 implementation guide are included within the SOAP envelope or transport layer of the query transmission. These 534 data elements, as written in the conformance statements below, provide routing information essential to the 535 PDMP Hubs and/or other intermediaries providing routing or translation services necessary for interoperability. 536 PDMP data requests originating from Health IT Systems are subject to state policies or laws governing the 537 exchange of PDMPdata. Such policies may restrict healthcare professionals to query for a person of interest in 538 his/her state, while other states may allow for PDMP searches to span multiple PDMP databases per established 539 business agreements or memorandums of understanding (MOUs). PDMP Hubs, in particular, provide the 540 technology infrastructure necessary to widen search criteria to multiple states where agreements for interstate 541 data sharing have been authorized and extended to the requesting healthcare entity. The example below assumes that the requesting healthcare entity is authorized to select multiple inputs for target PDMPs. The PDMP Hub⁶², in 542 543 this example, extends the search criteria to include Virginia AND Maryland as choices for the requestor and assumes the back-end infrastructure responsibility to enable multiple state querying. 544 545 546 <?xml version="1.0" encoding="UTF-8"?> <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/"> 547 <RequestRoutingData> 548 549 <Requestor>Clara Barton</Requestor> <RequestorRole>Pharmacist</RequestorRole> 550 <RequestID>123456789AA001⁶³</RequestID> 551 552 <DisclosingState>MD</DisclosingState> 553 <DisclosingState>VA</DisclosingState> <RequestingFacilityID> 554 <DEANumber></DEANumber> 555 556 <NationalProviderID>1234567890</NationalProviderID> <NCPDPProviderID></NCPDPProviderID> 557 </RequestingFacilityID> 558 <RequestingFacility> 559 <FacilityName>Rite Way Pharmacy</FacilityName> 560 <LocationStateUsPostalServiceCode>VA</LocationStateUsPostalServiceCode> 561

</RequestingFacility>

562

563

 $^{^{62}}$ PMP Gateway – in one request, multiple states are queried at once

⁶³ System assigned number (unique ID); Data structure: varchar50

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```
564
           <RequestorID>
                <DEANumber>BJ6125341 </DEANumber>
565
566
                <NationalProviderID></NationalProviderID>
                <StateLicenseNumber></StateLicenseNumber>
567
                <StateIssuedID></StateIssuedID>
568
569
           </RequestorID>
570
         </RequestRoutingData>
571
       <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
       xmlns:xsd="http://www.w3.org/2001/XMLSchema">
572
573
                 <AdHocPMPRequest xmlns="http://www.asapnet.org/pmprequest">
574
                 <userId>user@somepharmacy.com</userId>
                 <passwordDigest>ajJHM1ZGN1lOa05udGV1VjJGVmhFaWNNbGhjPQ==</passwordDigest>
575
576
                 <nonce>0F2ED1EA-2E78-48CC-9D22-C70A1FEB7615</nonce>
577
                 <ts>2014-08-21T14:12:47.8088824-04:00</ts>
                         <req xsi:type="PMPDetailedQuery">
578
579
                                 <RequestDateRange>
580
                                        <DateRangeBegin>2014-08-01T00:00:00
581
                                        <DateRangeEnd>2014-08-20T00:00: </DateRangeEnd>
                                 </RequestDateRange>
582
583
                                 <Patient>
584
                                        <BirthDate>1981-08-08T00:00:00</BirthDate>
                                        <Name>
585
586
                                                <GivenName>Alexander</GivenName>
587
                                                <SurName>Fleming</SurName>
588
                                        </Name>
589
                                 </Patient>
590
                         </req>
591
                 </AdHocPMPRequest>
592
          </s:Body>
593
              </s:Envelope>
```

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595	2.3.	2.2	R	equest Conformance Statements
596 597	Α.	ASA	AP Weh	Services to PMIX
598	,	1.		Request SHALL have <i>one of each</i> of the following data elements:
599		1.	i.	Requestor: <requestor></requestor>
600			ii. 	Requestor Role: <requestorrole></requestorrole>
601			iii.	Request ID: <requestid></requestid>
602			iv.	Request Date/Timestamp: <ts></ts>
603			V.	Disclosing State: <disclosingstate></disclosingstate>
604			vi.	Requesting Facility Name: <facilityname></facilityname>
605			vii.	State Code of Requesting Facility: <locationstateuspostalservicecode></locationstateuspostalservicecode>
606			viii.	Patient First Name: <givenname></givenname>
607			ix.	Patient Last Name: <surname></surname>
608			х.	Patient Date of Birth: <birthdate></birthdate>
609			xi.	Request Prescription Date Range – Begin Date: <daterangebegin></daterangebegin>
610			xii.	Request Prescription Date Range – End Date: <daterangeend></daterangeend>
611		2.	The R	equestor in the Request SHALL be one of the following healthcare professional types referenced in
612			the A	opendix section table titled, "Role Value Set", verified by governance policy set forth by the state
613			PDMF	r(s)
614		3.	Each I	Request SHALL have <i>one</i> Requestor Identifier: <requestorid>. The Identifier SHALL be one of the</requestorid>
615			follow	ring:
616				i. DEA Number: <deanumber></deanumber>
617				ii. NPI Number: <npi></npi>
618				iii. State License ID: <statelicensenumber></statelicensenumber>
619		4.	Each I	Request SHALL have one State of License if State License ID <stateissuedid> is provided.</stateissuedid>
620		5.	Each I	Request SHALL have <i>one</i> Requesting Facility ID <requestingfacilityid>. The ID SHALL be one of the</requestingfacilityid>
621			follow	ring:
622			i.	DEA Number: <deanumber></deanumber>
623			ii.	NCPDP Number: <ncpdpproviderid></ncpdpproviderid>
624			iii.	NPI Number: <npi></npi>

2.3.3 Request: HL7 v2.7to PMIX

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Table 10: Request Transformation Details from HL7 V2.7.0 to PMIX

Date Element		PMIX				HL	7 V2.7.1		
	Data Element	Element Path	Optionality	Cardinality	Data Type	Element Path	Optionality	Cardinality	Data Type
			R	outing Inform	ation				
Requestor	<pre><pmix:requestor> </pmix:requestor></pre>	NA	R	11	Unspecified	QPD.3 Requestor ⁶⁴	R	11	XPN
Requestor Role	<pre><pmix:requestorrole> </pmix:requestorrole></pre>	/pmix:MetaData/	R	11	Unspecified	QPD.4 RequestorRole ⁶⁵	R	11	ST
Disclosing State	<pre><pmix:disclosingstate> </pmix:disclosingstate></pre>	/pmix:MetaData /pmix:RoutingData/	R	11	Unspecified	QPD.5 DisclosingState ⁶⁶	R	1*	ST
Request ID	<pre><pmix:requestid> </pmix:requestid></pre>	/pmix:MetaData /pmix:RoutingData/	R	11		QPD.2 QueryTag	R	11	ST
Request Date/Timestamp	Unspecified	Unspecified	R	11	Unspecified	QPD.6 RequestDateTime ⁶⁷	R	11	DTM

⁶⁴ Requestor is not currently supported by HL7 V2.7 Query. Concept has been added to the QPD segment as a user-defined query parameter.

⁶⁵ RequestorRole is not currently supported by HL7 V2.7 Query. Concept has been added to the QPD segment as a user-defined query parameter.

⁶⁶ DisclosingState is not currently supported by HL7 V2.7 Query. Concept has been added to the QPD segment as a user-defined query parameter.

⁶⁷ RequestDateTime is not currently supported by HL7 V2.7 Query. Concept has been added to the QPD segment as a user-defined query parameter.

	DEA Number		pmp:DEANumberIde ntifier/	CR	01	nc:Identificati onID	QPD.7.1 RequestorDEA.ID ⁶⁸	С	0*	ST
	NPI Number	<nc:identificationid></nc:identificationid>	pmp:NPIIdentifier/	CR	01	nc:Identificati	QPD.8.1 RequestorNPI.ID ⁶⁹	С	0*	ST
dentifier	State License ID	<nc:identificationid></nc:identificationid>	pmp:StateLicenseIde ntifier/	CR	01		QPD.9.1 RequestorStateLicense.ID ⁷⁰	С	0*	ST
Requestor Identifier	State of License	<pre><nc:identificationjurisdict< td=""><td>ntifier/</td><td>CR</td><td>01</td><td></td><td>QPD.9.4.1 RequestorStateLicense.Assignin gAuthority⁷¹</td><td>С</td><td>0*</td><td>ST</td></nc:identificationjurisdict<></pre>	ntifier/	CR	01		QPD.9.4.1 RequestorStateLicense.Assignin gAuthority ⁷¹	С	0*	ST
	DEA Number		pmp:DEANumberIde ntifier/	CR	01	nc:Identificati onID	QPD.10.1 FacilityDEA.ID ⁷²	С	0*	ST
cility ID	NCPDP Number	<nc:identificationid> </nc:identificationid>	pmp:NCPDPIdentifie	CR	01	nc:Identificati onID	QPD.11.1 FacilityNCPDP.ID ⁷³	С	0*	ST
Requesting Facility ID	NPI Number	<nc:identificationid> </nc:identificationid>	pmp:NPIIdentifier/	CR	01	nc:Identificati onID	QPD.12.1 FacilityNPI.ID ⁷⁴	С	0*	ST

⁶⁸ RequestorDEA.ID is not currently supported by HL7 V2.7 Query. Concept has been added to the QPD segment as a user-defined query parameter.

⁶⁹ RequestorNPI.ID is not currently supported by HL7 V2.7 Query. Concept has been added to the QPD segment as a user-defined query parameter.

⁷⁰ RequestorStateLicense.ID is not currently supported by HL7 V2.7 Query. Concept has been added to the QPD segment as a user-defined query parameter.

⁷¹ RequestorStateLicense.AssigningAuthority is not currently supported by HL7 V2.7 Query. Concept has been added to the QPD segment as a user-defined query parameter.

⁷² FacilityDEA.ID is not currently supported by HL7 V2.7 Query. Concept has been added to the QPD segment as a user-defined query parameter.

⁷³ Facility NCPDP.ID is not currently supported by HL7 V2.7 Query. Concept has been added to the QPD segment as a user-defined query parameter.

⁷⁴ FacilityNPI.ID is not currently supported by HL7 V2.7 Query. Concept has been added to the QPD segment as a user-defined query parameter.

	Name	<nc:organizationdoingbu sinessAsName> usinessAsName></nc:organizationdoingbu 	pmp:Prescription /pmp:Dispenser/	R	11	nc:Organizatio nType	QPD.13 FacilityName ⁷⁵	R	01	ST
Requesting Facility	State Code of Requestin g Facility	<nc:locationstateuspost alServiceCode> </nc:locationstateuspost alServiceCode>	/pmp:Dispenser /nc:OrganizationLoc	R	11	usps:USStateC odeType	QPD.14.1 FacilityState.code ⁷⁶	R	01	ST
					Message Bo	dy				
Patient	First Name	<nc:persongivenname> </nc:persongivenname>	/pmix:PMPRequest /pmp:RequestPatient /nc:PersonName/	R	11	nc:PersonNa meTextType	QPD.15.2 PatientList.GivenName	R	01	ST
	Last Name	<nc:personsurname> </nc:personsurname>	/pmix:PMPRequest /pmp:RequestPatient /nc:PersonName/	R	11	nc:PersonNa meTextType	QPD.15.1 PatientList.FamilyName	R	01	ST
	Date of Birth	<nc:date> </nc:date>	/pmix:PMPRequest /pmp:RequestPatient /nc:PersonBirthDate/	R	11	niem-xsd:date	QPD.16 PatientDOB	R	01	DT
Reques t Prescri ption	Start Date	<pre><pmp:requestprescriptio ndaterangebegin=""> </pmp:requestprescriptio></pre>	/pmix:PMPRequest /pmp:RequestPrescri ptionDateRange/	R	11	niem-xsd:date	QPD.17 DispenseDate.LL	R	01	DT
Date Range	End Date	<pre><pmp:requestprescriptio ndaterangeend=""> </pmp:requestprescriptio></pre>	/pmix:PMPRequest /pmp:RequestPrescri ptionDateRange/	R	11	niem-xsd:date	QPD.18 DispenseDate.UL	R	01	DT

⁷⁵ FacilityName is not currently supported by HL7 V2.7 Query. Concept has been added to the QPD segment as a user-defined query parameter.

⁷⁶ FacilityStateCode is not currently supported by HL7 V2.7 Query. Concept has been added to the QPD segment as a user-defined query parameter.

627 **2.3.3.1** Coded Example (Request Transformation)

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630 Table 10: HL7 V2.7 Transformation Details - Query Grammar

QBP^ZS1^QBP_Q11	Query Grammar: QBP Message	<u>Chapter</u>
MSH	Message Header Segment	2
[{ SFT }]	Software	2
QPD	Query Parameter Definition	5
RCP	Response Control Parameter	5
[DSC]	Continuation Pointer	2

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QPD Input Parameter Specification

Table 11: HL7 V2.7 Transformation Details - QPD Input Parameter Specification

Field Seq (Query ID=ZS1)	Name	Key/Search	Sort	LEN	ТҮРЕ	Opt	Rep	Match Op	TBL	Segment Field Name	Service Identifi er Code	Element Name
1	MessageQueryNam e				CE	R						
2	QueryTag				ST	R						
3	Requestor				XPN	R						
4	RequestorRole				ST	R						
5	DisclosingState				ST	R	Υ		USPS State Codes			
6	RequestDateTime				DTM	R						

Field Seq (Query ID=ZS1)	Name	Key/Search	Sort	LEN	ТҮРЕ	Opt	Rep	Match Op	TBL	Segment Field Name	Service Identifi er Code	Element Name
7	RequestorDEA				CX	С						
8	RequestorNPI				CX	С						
9	RequestorStateLice nse				СХ	С	Y					
10	RequestingFacilityD EA				СХ		Y					
11	RequestingFacilityN CPDP				СХ		Y					
12	RequestingFacilityN PI				СХ		Υ					
13	RequestingFacilityN ame				ST		N					
14	RequestingFacilitySt ate				ST		N		USPS State Codes			
15	PatientName	S	Y		XPN	R				PID.3		PID-3: Patient Identifier List
16	PatientDOB				DTM	0				PID.7		PID.7: Date/Tim e of Birth
17	DispenseDate.LL				DT	0		> =		RXD.3		RXD-3: Date/Tim e Dispense d

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Field Seq (Query ID=ZS1)	Name	Key/Search	Sort	LEN	TYPE	Opt	Rep	Match Op	TBL	Segment Field Name	Service Identifi er Code	Element Name
18	DispenseDate.UL				DT	0		< =		RXD.3		RXD-3: Date/Tim e Dispense d
19	ResponseDateTime				DTM	С						

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QPD Input Parameter Field Description and Commentary

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Table 12: HL7 V2.7. Transformation Details - QPD Input Parameter Field Description and Commentary

Input Parameter (Query ID=ZS1)	Comp. Name	DT	Description
MessageQueryName		CWE	Must be valued ZSP^PDMP Dispense History^HL70471.
QueryTag		ST	Unique to each query message instance
Requestor		XPN	Name of query requestor
	LastName	ST	Query requestor Last Name
	GivenName	ST	Query requestor Given Name
RequestorRole		ST	Role of query requestor
DisclosingState		ST	State which is the target of the query. Can repeat to support querying multiple States. Uses USPS 2-letter State Abbreviations
RequestDateTime		DTM	The date and (optionally) time of the query message
RequestorDEA		СХ	Requestor DEA number
	ID	ST	DEA Number

Input Parameter (Query ID=ZS1)	Comp. Name	DT	Description
	IDType	ST	"DEA" indicates this is a DEA number
RequestorNPI		СХ	Requestor NPI
·	ID	ST	NPI
	IDType	ST	"NPI" indicates this is an NPI
RequestorStateLicense		CX	Requestor State License Number. Can repeat to support requestors with multiple state licenses
	ID	ST	State License Number
	IDType	ST	"SL" indicates this is a State License "MD" indicates this is a Medical License "RPH" indicates this is a Pharmacist License Values are from HL7 Table 0203 Identifier Type
	AssigningAuthority	ST	The State issuing the license. Uses USPS 2-letter State Abbreviations
RequestingFacilityDEA		CX	Requesting facility DEA number
	ID	ST	DEA Number
	IDType	ST	"DEA" indicates this is a DEA number
RequestingFacilityNCPDP		СХ	Requesting facility NCPDP number
, ,	ID	ST	NCPDP Number
	IDType	ST	"NCPDP" indicates this is an NCPDP number
RequestingFacilityNPI		СХ	Requesting facility NPI
	ID	ST	NPI
	IDType	ST	"NPI" indicates this is an NPI
RequestingFacilityName		ST	Requesting facility name
RequestingFacilityState		ST	The requesting facility State

Input Parameter (Query ID=ZS1)	Comp. Name	DT	Description
PatientName		XPN	Name of patient (subject of query)
	LastName	ST	Query subject Last Name
	GivenName	ST	Query subject Given Name
	OtherGivenName	ST	Query subject Middle and other given names
PatientDOB		DTM	Patient date of birth. Format: YYYY[MM[DD[HH[MM[SS[.S[S[S]]]]]]]]]]+/- ZZZZ].
DispenseDate.LL		DT	Lower date limit (inclusive) of request Format: YYYY[MM[DD]]
DispenseDate.UL		DT	Upper date limit (inclusive) of request Format: YYYY[MM[DD]]
Response Date Time		DTM	Date and time of response. Not present in the request. Required in the response (supplied by responder). Format: YYYY[MM[DD[HH[MM[SS[.S[S[S]]]]]]]]]+/-ZZZZ].

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Example: The user, pharmacist Clara Barton, wishes to know all the medications dispensed for the patient whose name is "Alexander Fleming", residing in a PDMP, for the period beginning 08/01/2014 and ending 08/20/2014. The following QBP message is generated:

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MSH|^&~\|RiteWay||PDMP||201408211600-0500||QBP^ZS1^QBP Q11|ACK9901|P|2.7.1| QPD ZSP^PDMP Dispense History^HL70471 | 123456789AA001 | Barton^Clara | Pharmacist | MD~VA | 201408211600-0500|||BJ6125341^^^DEA||1234567890^^^NPI|Rite Way Pharmacy | VA | Fleming^Alexander | 19810808 | 20140801 | 20140820 | |

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RCP|1|999^RD|

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2.3.3.2 **Conformance Statements**

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Conformance Statements

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Table 13: HL7 V2.7 Conformance Statements

Query Statement ID (Query ID=ZS1):	ZS1
Туре:	Query
Query Name:	PDMP Dispense History
Query Trigger (= MSH-9):	QBP^ZS1^QBP_Q11
Query Mode:	Both
Response Trigger (= MSH-9):	RSP^K31^RSP_K31
Query Characteristics:	May specify patient, patient date of birth, date range and States to be queried
Purpose:	To request PDMP data from a Prescription Drug Monitoring Program (PDMP)
Response Characteristics:	Sorted by patient
Based on Segment Pattern:	RDS_001

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HL7 v2.7.1 PDMP Query (QPB^ZS1^QBP Q11) request to PMIX

- 1. Each Request SHALL include a Request ID: QPD.2 QueryTag
- 659 2. Each Request SHALL include a Request Date/Timestamp: QPD.6 RequestDateTime
 - Each Request SHALL include a Request Prescription Date Range Begin Date: QPD.17 DispenseDate.LL
 - 4. Each Request SHALL include a Request Prescription Date Range End Date: QPD.18 DispenseDate.UL
 - 5. Each Reguest SHALL specify one Reguestor, such that
 - a. The Request SHALL include the Requestor Last Name: QPD.3 Requestor.LastName
 - b. The Request SHALL include the Requestor First Name: QPD.3.2 Requestor. Given Name
 - The Request SHALL include the Requestor Role: QPD.4 RequestorRole

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666	6.	The Req	uestor Role SHALL correspond to one of the values referenced in the Appendix section table
667		titled, "	Role Value Set", verified by governance policy set forth by the state PDMP(s)
668		d.	The Request SHALL include at least one Requestor Identifier. Permitted identifiers are:
669			i. Requestor DEA Number: QPD.7 RequestorDEA
670			ii. Requestor NPI Number: QPD.8 RequestorNPI
671			iii. Requestor State License Number: QPD.9 RequestorStateLicense
672		e.	The Request SHALL include the Requesting Facility Name: QPD13 RequestingFacilityName
673		f.	Each Request SHALL include at least one Requesting Facility ID. Permitted identifiers are
674			i. Facility DEA Number: QPD.10 FacilityDEA
675			ii. Facility NPI Number: QPD.11 FacilityNPI
676			iii. Facility NCPDP Number: QPD.12 FacilityStateLicense
677		g.	The Request SHALL include the State Code of Requesting Facility: QPD.14 RequestingFacilityState
678			i. The State Code SHALL be identified using the USPS 2-letter State Abbreviations
679	6.	Each Re	quest SHALL identify one Patient as the subject of the query, such that:
680		a.	The Request SHALL include the Patient First Name: QPD.15.2 PatientList.GivenName
681		b.	The Request SHALL include the Patient Last Name: QPD.15.1 PatientList.FamilyName
682		c.	The Request SHALL include the Patient Date of Birth: QPD.16 PatientDOB
683	7.	Each Re	quest SHALL have at least one Disclosing State: QPD.5 DisclosingState
684	The Dis	closing St	ates SHALL be identified using the USPS 2-letter State Abbreviations

2.3.4 Response: PMIX to NCPDP SCRIPT v10.6

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Table 14: Response Transformation Details from PMIX to NCPDP SCRIPT v10.6

Data	Element		PMIX					NCPDP SCRIPT	-		
		DE Name	Element Path	Option ality	Cardinalit Y	Data Type/ Code set	DE Name	Element Path	Option ality	Cardinali ty	Data Type/ Code set
					Routing I	nformation					
_	onse Date/ nestamp	<pre><pmp:reportexecutionda< td=""><td>Top-level pmix:RoutingData/</td><td>R</td><td>11</td><td>Unspecified</td><td><senttime></senttime></td><td>SCRIPT:RxHistoryRespons e /Header/</td><td>R</td><td>11</td><td>string</td></pmp:reportexecutionda<></pre>	Top-level pmix:RoutingData/	R	11	Unspecified	<senttime></senttime>	SCRIPT:RxHistoryRespons e /Header/	R	11	string
Response ta	Begin Date	<pre><pmp:reportdaterangeb< td=""><td>pmix:RoutingData /pmp:ReportDateRange/</td><td>R</td><td>11</td><td>niem-xsd:date</td><td><effectivedate></effectivedate></td><td>SCRIPT:RxHistoryRespons e /BenefitsCoordination/</td><td>R</td><td></td><td>Date or DateTime</td></pmp:reportdaterangeb<></pre>	pmix:RoutingData /pmp:ReportDateRange/	R	11	niem-xsd:date	<effectivedate></effectivedate>	SCRIPT:RxHistoryRespons e /BenefitsCoordination/	R		Date or DateTime
Prescription Response Data	End date	<pre><pmp:reportdaterangee< td=""><td>pmix:RoutingData /pmp:ReportDateRange/</td><td>R</td><td>11</td><td>niem-xsd:date</td><td><expirationdate></expirationdate></td><td>SCRIPT:RxHistoryRespons e /BenefitsCoordination/</td><td>R</td><td></td><td>Date or DateTime</td></pmp:reportdaterangee<></pre>	pmix:RoutingData /pmp:ReportDateRange/	R	11	niem-xsd:date	<expirationdate></expirationdate>	SCRIPT:RxHistoryRespons e /BenefitsCoordination/	R		Date or DateTime
Disclo	osing State	<pre><pmix:disclosingstate> </pmix:disclosingstate></pre>	pmix:RoutingData/	R	1N	Unspecified	NA	NA	NA	NA	NA
Rec	quest ID	<pre><pmix:requestid> </pmix:requestid></pre>	pmix:RoutingData/	R	11	Unspecified	<relatestomessage ID></relatestomessage 	SCRIPT:RxHistoryREspons e /Header/	R	11	AN35

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					Messa	ge Body					
	First Name	<nc:persongivenname> </nc:persongivenname>	pmp:Prescription /pmp:Patient /nc:PersonName/	R	1N	nc:TextType	<firstname></firstname>	SCRIPT:RxHistoryResponse /Patient /Name/	R	11	AN35
	Last Name	<nc:personsurname> </nc:personsurname>	pmp:Prescription /pmp:Patient /nc:PersonName/	R	1N	nc:TextType	<lastname></lastname>	SCRIPT:RxHistoryResponse /Patient /Name	R	11	AN35
	Date of Birth	<nc:date> </nc:date>	pmp:Prescription /pmp:Patient /nc:PersonBirthDate/	R	11	nc:DateType	<dateofbirth></dateofbirth>	SCRIPT:RxHistoryResponse /Patient/	R	11	Date or DateTime
	Gender	<nc:personsexcode> </nc:personsexcode>	pmp:Prescription /pmp:Patient/	R	11	Unspecified	<gender></gender>	SCRIPT:RxHistoryResponse /Patient/	R	11	AN1
Patient	Street Address	<nc:streetfulltext> </nc:streetfulltext>	pmp:Prescription /pmp:Patient /pmp:PersonPrimaryContac tInformation /nc:ContactMailingAddress / nc:StructuredAddress /nc:LocationStreet/	R	11	nc:TextType	<addressline1> <addressline2></addressline2></addressline1>	SCRIPT:RxHistoryResponse /Patient /Address/	0	01	AN35
<u>.</u>	City Address	<nc:locationcityname> </nc:locationcityname>	pmp:Prescription /pmp:Patient /pmp:PersonPrimaryContac tInformation /nc:ContactMailingAddress /nc:StructuredAddress/	R	11	nc:TextType	<city></city>	SCRIPT:RxHistoryResponse /Patient /Address/	0	01	AN35
	State Code	<nc:locationstateuspostalser viceCode> </nc:locationstateuspostalser viceCode>	/pmp:Patient	R	11	Unspecified	<state></state>	SCRIPT:RxHistoryResponse /Patient /Address/	0	01	string
		<nc:locationpostalcode> </nc:locationpostalcode> <nc:locationpostalextensionc< td=""><td>tInformation</td><td>R</td><td>11</td><td>Unspecified</td><td><zipcode></zipcode></td><td>SCRIPT:RxHistoryResponse /Patient /Address/</td><td>0</td><td>01</td><td>string</td></nc:locationpostalextensionc<>	tInformation	R	11	Unspecified	<zipcode></zipcode>	SCRIPT:RxHistoryResponse /Patient /Address/	0	01	string

	SSN	<nc:identificationid> </nc:identificationid>	pmp:Prescription /pmp:Patient /nc:PersonSSNIdentifica tion/	CR	01	nc:Identificati onType		SCRIPT:RxHistoryResponse /Patient /Identification/	0	01	AN35
	License	<nc:identificationid> </nc:identificationid>	pmp:Prescription /pmp:Patient /pmp:PersonStateIssued Identifier/	CR	01	nc:Identificati onType	NA	NA	NA	NA	NA
Jentifier ⁷⁷	State of License ⁷⁸	<nc:identificationjurisdictio nText> onText></nc:identificationjurisdictio 	/pmp:Patient	CR	01	nc:TextType	NA	NA	NA	NA	NA
Patien	Passport ID	<nc:identificationid> </nc:identificationid>	pmp:Prescription /pmp:Patient /pmp:PersonPassportIde ntifier/	CR	01	nc:Identificati onType	NA	NA	NA	NA	NA
	Military ID	<nc:identificationid> </nc:identificationid>	pmp:Prescription /pmp:Patient /pmp:PersonMilitaryIde ntifier/	CR	01	nc:Identificati onType	NA	NA	NA	NA	NA
	Tribal Identifier	<nc:identificationid> </nc:identificationid>	pmp:Prescription /pmp:Patient /pmp:PersonTribalIdenti fier/	CR	01	nc:Identificati onType	NA	NA	NA	NA	NA

⁷⁷ Patient Identifier data is required to be provided in the response, on the condition that policy allows available data to be sent

⁷⁸ Required if the License is being used as the Identifier

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	Filled Date	<pre><pmp:reportdaterangebegin> <th></th><th>R</th><th>1N</th><th>niem-xsd:date</th><th><lastfilldate></lastfilldate></th><th>SCRIPT:RxHIstoryResponse /MedicationDispensed/</th><th>R</th><th>11</th><th>Date or DateTime</th></pmp:reportdaterangebegin></pre>		R	1N	niem-xsd:date	<lastfilldate></lastfilldate>	SCRIPT:RxHIstoryResponse /MedicationDispensed/	R	11	Date or DateTime
	Written Date	<nc:date> </nc:date>	pmp:Prescription /pmp:PrescriptionWrittenD ate/	R	1N	nc:DateType	<writtendate></writtendate>	SCRIPT:RxHistoryResponse /MedicationDispensed/	0	01	Date or DateTime
	Number	<pre><pmp:prescriptionnumbertext< td=""><td>pmp:Prescription/</td><td>R</td><td>1N</td><td>nc:TextType</td><td><sourcereference></sourcereference></td><td>SCRIPT:RxHistoryResponse /MedicationDispensed /HistorySource/</td><td>0</td><td>01</td><td>AN35</td></pmp:prescriptionnumbertext<></pre>	pmp:Prescription/	R	1N	nc:TextType	<sourcereference></sourcereference>	SCRIPT:RxHistoryResponse /MedicationDispensed /HistorySource/	0	01	AN35
ption	Drug Name ⁷⁹	<pre><pmp:drugproductnametext> </pmp:drugproductnametext></pre>		R	1N	nc:TextType	<drugdescription></drugdescription>	SCRIPT:RxHistoryResponse /MedicationDispensed/	R	11	AN105
Prescription	Strength ⁸⁰	<pre><pmp:drugstrengthtext> </pmp:drugstrengthtext></pre>	pmp:Prescription /pmp:PrescriptionDrug/	R	1N	nc:TextType	<strengthvalue, Code> fields</strengthvalue, 	SCRIPT:RxHistoryResponse /MedicationDispensed /DrugCoded/	0	01	string
	Dosage Form ⁸¹	<pre><pmp:drugunitofmeasuretext><td>pmp:Prescription /pmp:PrescriptionDrug/</td><td>R</td><td>1N</td><td>nc:TextType</td><td><formcode></formcode></td><td>SCRIPT:RxHistoryResponse /MedicationDispensed /DrugCoded/</td><td>0</td><td>01</td><td>string</td></pmp:drugunitofmeasuretext></pre>	pmp:Prescription /pmp:PrescriptionDrug/	R	1N	nc:TextType	<formcode></formcode>	SCRIPT:RxHistoryResponse /MedicationDispensed /DrugCoded/	0	01	string
	Quantity	<pre><pmp:dispensedquantity> </pmp:dispensedquantity></pre>	pmp:Prescription/	R	1N	niem- xsd:decimal	<quantity></quantity>	SCRIPT:RxHistoryResponse /MedicationDispensed/	0	02	string
	Days of Supply	<pre><pmp:dayssupplycount> </pmp:dayssupplycount></pre>	pmp:Prescription/	R	1N	niem- xsd:nonNegativ eInteger	<dayssupply></dayssupply>	SCRIPT:RxHistoryResponse /MedicationDispensed/	0	01	AN35
	Refill Number	<pre><pmp:drugrefillnumbercount< td=""><td></td><td>R</td><td>1N</td><td>niem- xsd:nonNegativ eInteger</td><td><fillnumber></fillnumber></td><td>SCRIPT:RxHistoryResponse /MedicationDispensed> /HistorySource/</td><td>0</td><td>01</td><td>N2</td></pmp:drugrefillnumbercount<></pre>		R	1N	niem- xsd:nonNegativ eInteger	<fillnumber></fillnumber>	SCRIPT:RxHistoryResponse /MedicationDispensed> /HistorySource/	0	01	N2

⁷⁹ Drug Name data is required to be provided in the response, on the condition that the data is available to be sent

⁸⁰ Drug Strength data is required to be provided in the response, on the condition that the data is available to be sent

⁸¹ Dosage Form data is required to be provided in the response, on the condition that the data is available to be sent

	Refills Authorized	<pre><pmp:refillsauthorizedcount> </pmp:refillsauthorizedcount></pre>	pmp:Prescription/	R	1N	niem- xsd:nonNegativ eInteger	<refills></refills>	SCRIPT:RxHistoryResponse /MedicationDispensed/	0	02	string
	Partial Fill Indicator	<pre><pmp:partialfillindicator> </pmp:partialfillindicator></pre>	pmp:Prescription/	R	1N	niem- xsd:boolean	gap ⁸²				
	Method of Payment	<pre><pmp:methodofpaymentcode< td=""><td>pmp:Prescription/</td><td>R</td><td>1N</td><td>pmpcd:Method OfPaymentCode Type</td><td><note>⁸³</note></td><td>SCRIPT:RxHistoryResponse /MedicationDispensed/</td><td>0</td><td>01</td><td>AN210</td></pmp:methodofpaymentcode<></pre>	pmp:Prescription/	R	1N	pmpcd:Method OfPaymentCode Type	<note>⁸³</note>	SCRIPT:RxHistoryResponse /MedicationDispensed/	0	01	AN210
Drug		<pre><pmp:drugcpdproductidentifi er=""><pmp:drugdinproductiden tifier=""> <pmp:drughriproductidentifie< td=""><td>NA</td><td>R</td><td>1N</td><td>-</td><td><productcodequalifie r></productcodequalifie </td><td>SCRIPT:RxHistoryResponse /MedicationDispensed/Drug Coded</td><td>0</td><td>01</td><td>string</td></pmp:drughriproductidentifie<></pmp:drugdinproductiden></pmp:drugcpdproductidentifi></pre>	NA	R	1N	-	<productcodequalifie r></productcodequalifie 	SCRIPT:RxHistoryResponse /MedicationDispensed/Drug Coded	0	01	string
	Product ID	<identificationid></identificationid>	NA	R	1N	Unspecified	<productcode></productcode>	SCRIPT:RxHistoryResponse /MedicationDispensed/Drug Coded	0	01	AN35

⁸² NCPDP participants are concerned with use of this field misunderstanding that could occur and will discuss further if it would be added to a future version of the NCPDP SCRIPT Medication History transaction.

⁸³ Method of Payment - For the purposes of the pilot, the <MedicationDispensed><Note> field may be used for Method of Payment. If Method of Payment is exchanged, the <MedicationDispensed><Note> will contain the literal "PT:' followed by the method of payment value. (PT = Payment Type.) The payment type must be appended to any existing data in <Note>, if there is room.

	Name (Pharmacy)	<nc:organizationdoingbusines sAsName> ssAsName></nc:organizationdoingbusines 	pmp:Prescription /pmp:Dispenser/	R	1N	nc:TextType	<storename></storename>	SCRIPT:RxHistoryResponse /MedicationDispensed /Pharmacy/	R	11	AN35
	Street Address ⁸⁴	<nc:streetfulltext> </nc:streetfulltext>	pmp:Prescription /pmp:Dispenser /nc:OrganizationLocation /nc:LocationAddress /nc:StructuredAddress /nc:LocationStreet/	R	1N	nc:TextType	<addressline1> <addressline2></addressline2></addressline1>	SCRIPT:RxHistoryResponse /MedicationDispensed /Pharmacy /Address/	0	01	AN35
Organization	City Address ⁸⁵	<nc:locationcityname> </nc:locationcityname>	pmp:Prescription /pmp:Dispenser /nc:OrganizationLocation /nc:LocationAddress /nc:StructuredAddress/	R	1N	nc:TextType	<city></city>	SCRIPT:RxHistoryResponse /MedicationDispensed /Pharmacy /Address/	0	01	AN35
Dispenser Org	State Code ⁸⁶	<nc:locationstateuspostalserv iceCode> viceCode></nc:locationstateuspostalserv 	/pmp:Dispenser	R	1N	-	<state></state>	SCRIPT:RxHistoryResponse /MedicationDispensed /Pharmacy /Address/	0	01	string
۵	Zip Code ⁸⁷	<nc:locationpostalcode></nc:locationpostalcode>	pmp:Prescription /pmp:Dispenser /nc:OrganizationLocation /nc:LocationAddress /nc:StructuredAddress/	R	1N	-	<zipcode></zipcode>	SCRIPT:RxHistoryResponse /MedicationDispensed /Pharmacy /Address/	0	01	string
	Phone Number ⁸⁸		pmp:Prescription /pmp:Dispenser /nc:OrganizationPrimaryCo ntactInformation /nc:ContactTelephoneNum ber /nc:FullTelephoneNumber/	R	1N	-	<communicationnum bers=""></communicationnum>	SCRIPT:RxHistoryResponse /MedicationDispensed /Pharmacy/	0	1N	string

⁸⁴ Dispenser Organization Street Address data is required to be provided in the response, on the condition that the data is available to be sent

⁸⁵ Dispenser Organization City Address data is required to be provided in the response, on the condition that the data is available to be sent

⁸⁶ Dispenser Organization State Code data is required to be provided in the response, on the condition that the data is available to be sent

⁸⁷ Dispenser Organization Zip Code data is required to be provided in the response, on the condition that the data is available to be sent

⁸⁸ Dispenser Organization Phone Number data is required to be provided in the response, on the condition that the data is available to be sent

ization itifier	DEA Number	<nc:identificationid> </nc:identificationid>	pmp:Prescription /pmp:Dispenser /pmp:DEANumberIdentifier /	CR ⁸⁹	0N	nc:Identificatio nType	<deanumber></deanumber>	SCRIPT:RxHistoryResponse /MedicationDispensed /Pharmacy /Identification/	CR	03	AN35
Dispenser Organization (Pharmacy) Identifier	NCPDP Number	<nc:identificationid> </nc:identificationid>	pmp:Prescription /pmp:Dispenser /pmp:NCPDPIdentifier/	CR	0N	nc:Identification Type	<ncpdpid></ncpdpid>	SCRIPT:RxHistoryResponse /MedicationDispensed /Pharmacy /Identification/	CR	03	AN35
Disper (Phar	NPI Number	<nc:identificationid> </nc:identificationid>	pmp:Prescription /pmp:Dispenser /pmp:NPIIdentifier/	CR	0N	nc:Identificatio nType	<npi></npi>	SCRIPT:RxHistoryResponse /MedicationDispensed /Pharmacy /Identification/	CR	03	AN35
	First Name	<nc:persongivenname> </nc:persongivenname>	pmp:Prescription /pmp:Prescriber /nc:PersonName/	R	1N	nc:TextType	<firstname></firstname>	SCRIPT:RxHistoryResponse /MedicationDispensed /Prescriber /Name/	R	11	AN35
	Last Name	<nc:personsurname> </nc:personsurname>	pmp:Prescription /pmp:Prescriber /nc:PersonName/	R	1N	nc:TextType	<lastname></lastname>	SCRIPT:RxHistoryResponse /MedicationDispensed /Prescriber /Name/	R	11	AN35
Prescriber	Street Address ⁹⁰	<nc:streetfulltext> </nc:streetfulltext>	pmp:Prescription /pmp:Prescriber /pmp:PersonPrimaryContac tInformation /nc:ContactEntity /nc:EntityOrganization /nc:OrganizationLocation /nc:LocationAddress /nc:StructuredAddress /nc:LocationStreet/	R	1N	nc:TextType	<addressline1> <addressline2></addressline2></addressline1>	SCRIPT:RxHistoryResponse /MedicationDispensed /Prescriber /Address/	0	01	AN35
	City Address ⁹¹	<nc:locationcityname> </nc:locationcityname>	pmp:Prescription /pmp:Prescriber /pmp:PersonPrimaryContac tInformation /nc:ContactEntity /nc:EntityOrganization	R	1N	nc:TextType	<city></city>	SCRIPT:RxHistoryResponse /MedicationDispensed /Prescriber /Address/	0	01	AN35

⁸⁹ CR: Conditionally Required

⁹⁰ Prescriber Street Address data is required to be provided in the response, on the condition that the data is available to be sent

⁹¹ Prescriber City Address data is required to be provided in the response, on the condition that the data is available to be sent

			/nc:OrganizationLocation /nc:LocationAddress								
	State Code ⁹²	<nc:locationstateuspostalserv iceCode> viceCode></nc:locationstateuspostalserv 	/pmp:Prescriber	R	1N	-	<state></state>	SCRIPT:RxHistoryResponse /MedicationDispensed /Prescriber /Address/	0	01	string
	Zip Code ⁹³	<nc:locationpostalcode></nc:locationpostalcode>	pmp:Prescription /pmp:Prescriber /pmp:PersonPrimaryContac tInformation /nc:ContactEntity /nc:EntityOrganization /nc:OrganizationLocation /nc:LocationAddress /nc:StructuredAddress/	R	1N	-	<zipcode></zipcode>	SCRIPT:RxHistoryResponse /MedicationDispensed /Prescriber /Address/	0	01	string
Prescriber Identifier	DEA Number	<nc:ldentificationid> </nc:ldentificationid>	pmp:Prescription /pmp:Prescriber /pmp:DEANumberIdentifier /	CR	0N	nc:Identification Type	<deanumber></deanumber>	SCRIPT:RxHistoryResponse /MedicationDispensed /Prescriber /Identification	CR	03	AN35
	NPI Number	<nc:ldentificationid> </nc:ldentificationid>	pmp:Prescription /pmp:Prescriber /pmp:NPIIdentifier/	CR	0N	nc:Identificatio nType	<npi></npi>	SCRIPT:RxHistoryResponse /MedicationDispensed /Prescriber /Identification/	CR	03	AN35
	State License Identifier	<nc:ldentificationid> </nc:ldentificationid>	pmp:Prescription /pmp:Prescriber /pmp:StateLicenseIdentifier /	CR	0N	nc:Identification Type	NA	NA	NA	NA	NA
	State of License ⁹⁴	<nc:identificationjurisdictiont ext> </nc:identificationjurisdictiont ext>	pmp:Prescription /pmp:Prescriber /pmp:StateLicenseIdentifier /	CR	0N	-	NA	NA	NA	NA	NA

687

⁹² Prescriber State Code data is required to be provided in the response, on the condition that the data is available to be sent

⁹³ Prescriber Zip Code data is required to be provided in the response, on the condition that the data is available to be sent

⁹⁴ Required if the State License ID is being used as the Identifier

688

2.3.4.1

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```
NCPDP SCRIPT Coded Example - Response
689
      The following code shows a sample response to a request from a Pharmacist:
690
      <?xml version="1.0" encoding="UTF-8"?>
691
692
      <!--Sample XML file generated by XMLSpy v2011 rel. 3 sp1 (x64) (http://www.altova.com)-->
      <Message HighestVersionSupported="" release="006" version="010"</p>
693
694
      xsi:schemaLocation="http://www.ncpdp.org/schema/SCRIPT SCRIPT XML 10 6.xsd"
      xmlns="http://www.ncpdp.org/schema/SCRIPT" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
695
      instance">
696
697
       <Header>
         <To Qualifier="P">7701630</To>
698
         <From Qualifier="ZZZ">3428903284</From>
699
         <MessageID>PMP113</MessageID>
700
701
         <RelatesToMessageID>123456789AA001</RelatesToMessageID>
702
         <SentTime>2014-08-21T16:01:47Z
         <Security>
703
704
           <UsernameToken>
705
            <Username/>
706
            <Password Type="PasswordDigest">String</Password>
707
            <Nonce/>
708
            <Created>2014-08-21T16:01:47Z</Created>
709
           </UsernameToken>
           <Sender>
710
            <SecondaryIdentification>PASSWORD</SecondaryIdentification>
711
            <TertiaryIdentification/>
712
713
           </Sender>
           <Receiver>
714
715
            <SecondaryIdentification/>
716
            <TertiaryIdentification/>
           </Receiver>
717
718
         </Security>
719
        </Header>
720
        <Body>
721
      <RxHistoryResponse>
        <Response>
722
723
         <Approved></Approved>
724
        </Response>
        <Pharmacy>
725
726
           <Identification>
727
            <NPI>1234567890</NPI>
728
            <DEANumber>BJ6125341</DEANumber>
           </ldentification>
729
730
           <Pharmacist>
            <LastName>BARTON</LastName>
731
            <FirstName>CARLA</FirstName>
732
           </Pharmacist>
733
```

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```
<StoreName>RITE WAY PHARMACY</StoreName>
734
735
           <Address>
736
            <AddressLine1>1 STATE STREET</AddressLine1>
737
            <City>SOMEWHERE</City>
            <State>VA</State>
738
739
            <ZipCode>015660000</ZipCode>
740
           </Address>
           <CommunicationNumbers>
741
            <Communication>
742
             <Number>5554440222</Number>
743
744
             <Qualifier>TE</Qualifier>
            </Communication>
745
           </CommunicationNumbers>
746
747
         </Pharmacy>
748
       <Patient>
         <Identification>
749
           <SocialSecurity>123456789</SocialSecurity>
750
         </ldentification>
751
752
         <Name>
           <LastName>FLEMING</LastName>
753
754
           <FirstName>ALEXANDER</FirstName>
755
         </Name>
         <Gender>M</Gender>
756
         <DateOfBirth>
757
758
           <Date>1981-08-08</Date>
759
         </DateOfBirth>
          <Address>
760
            <AddressLine1>1000 ABC ST</AddressLine1>
761
            <City>SOMEWHERE</City>
762
763
            <State>VA</State>
            <ZipCode>12345</ZipCode>
764
           </Address>
765
       </Patient>
766
       <BenefitsCoordination>
767
768
         <EffectiveDate>
769
           <Date>2014-08-01</Date>
770
         </EffectiveDate>
771
         <ExpirationDate>
772
          <Date>2014-08-20</Date>
         </ExpirationDate>
773
         <Consent>N</Consent>
774
775
       </BenefitsCoordination>
        <MedicationDispensed>
776
          <DrugDescription>OXYMORPHONE 20MG TABLET/DrugDescription>
777
778
          <DrugCoded>
          <ProductCode>60951079401</ProductCode>
779
           <ProductCodeQualifier>ND</ProductCodeQualifier>
780
           <Strength>20</Strength>
781
```

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```
<FormSourceCode>AA</FormSourceCode>
782
783
          <FormCode>C42998</FormCode>
          <StrengthSourceCode>AB</StrengthSourceCode>
784
785
          <StrengthCode>C28253</StrengthCode>
          </DrugCoded>
786
787
          <Quantity>
            <Value>10</Value>
788
            <CodeListQualifier>87</CodeListQualifier>
789
790
       <UnitSourceCode>AC</UnitSourceCode>
791
        <PotencyUnitCode>C48542</PotencyUnitCode>
792
          </Quantity>
          <DaysSupply>10</DaysSupply>
793
          <Note> PT: 01 </Note> 95
794
          <Directions>TAKE 1 TABLET DAILY
795
796
          <Refills>
           <Qualifier>R</Qualifier>
797
           <Value>0</Value>
798
          </Refills>
799
          <WrittenDate>
800
           <Date>2014-08-02</Date>
801
802
          </WrittenDate>
803
          <LastFillDate>
804
           <Date>2014-08-02</Date>
          </LastFillDate>
805
806
         <Pharmacy>
807
          <Identification>
            <NPI>78787878</NPI>
808
            <DEANumber>AB1234563</DEANumber>
809
810
          </ldentification>
811
          <StoreName>ABCD EFGH PHARMACY</StoreName>
          <Address>
812
            <AddressLine1>200 CDE ST</AddressLine1>
813
            <City>SOMEWHERE</City>
814
            <State>VA</State>
815
816
            <ZipCode>015660000</ZipCode>
817
          </Address>
          <CommunicationNumbers>
818
819
            <Communication>
             <Number>123456789</Number>
820
             <Qualifier>TE</Qualifier>
821
822
            </Communication>
823
          </CommunicationNumbers>
824
         </Pharmacy>
825
```

⁹⁵ This is method of payment. 01 is the code for Private Pay i.e. Cash.

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```
<Prescriber>
826
827
           <Identification>
828
           <NPI>3209998001</NPI>
829
           <DEANumber>CD3456781</DEANumber>
830
           </ldentification>
831
           <Name>
832
            <LastName>DAVIS</LastName>
            <FirstName>MILES</FirstName>
833
           </Name>
834
           <Address>
835
836
            <AddressLine1>3000 FGH DRIVE</AddressLine1>
            <City>ANOTHERCITY</City>
837
838
            <State>VA</State>
            <ZipCode>12345</ZipCode>
839
           </Address>
840
           <CommunicationNumbers>
841
            <Communication>
842
843
             <Number>5088425594</Number>
             <Qualifier>TE</Qualifier>
844
            </Communication>
845
            <Communication>
846
             <Number>5088420989</Number>
847
             <Qualifier>FX</Qualifier>
848
            </Communication>
849
850
           </CommunicationNumbers>
          </Prescriber>
851
          <HistorySource>
852
          <SourceReference>987654321</SourceReference>
853
          <FillNumber>0</FillNumber>
854
855
          </HistorySource>
         </MedicationDispensed>
856
        </RxHistoryResponse>
857
858
      </Body>
      </Message>
859
860
      Another example of a response; this is a Response to a Request from a Prescriber:
861
      <?xml version="1.0" encoding="UTF-8"?>
862
863
      <!--Sample XML file generated by XMLSpy v2011 rel. 3 sp1 (x64) (http://www.altova.com)-->
      <Message HighestVersionSupported="" release="006" version="010"</p>
864
      xsi:schemaLocation="http://www.ncpdp.org/schema/SCRIPT_SCRIPT_XML_10_6.xsd"
865
      xmlns="http://www.ncpdp.org/schema/SCRIPT" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
866
      instance">
867
868
       <Header>
869
         <To Qualifier="C">ASEUROWEDF</To>
870
         <From Qualifier="ZZZ">3428903284
```

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```
<MessageID>PMP112</MessageID>
871
872
         <RelatesToMessageID>123456789AA001</RelatesToMessageID>
         <SentTime>2014-08-21T16:01:47Z</SentTime>
873
874
         <Security>
          <UsernameToken>
875
876
            <Username/>
            <Password Type="PasswordDigest">String</Password>
877
            <Nonce/>
878
            <Created>2001-12-17T09:30:47Z</Created>
879
           </UsernameToken>
880
881
           <Sender>
            <SecondaryIdentification>PASSWORD</SecondaryIdentification>
882
            <TertiaryIdentification/>
883
           </Sender>
884
           <Receiver>
885
            <SecondaryIdentification/>
886
            <TertiaryIdentification/>
887
888
           </Receiver>
         </Security>
889
       </Header>
890
        <Body>
891
892
      <RxHistoryResponse>
893
        <Response>
         <Approved></Approved>
894
895
        </Response>
       <Prescriber>
896
         <Identification>
897
           <NPI>3209998001</NPI>
898
           <DEANumber>AX123234</DEANumber>
899
900
         </ldentification>
         <ClinicName>SMITH ASSOCIATES</ClinicName>
901
902
         <Name>
          <LastName>SMITH</LastName>
903
           <FirstName>JACK</FirstName>
904
905
         </Name>
906
         <Address>
907
           <AddressLine1>1801 LAWN DRIVE</AddressLine1>
908
           <City>SOMEWHERE</City>
909
           <State>MA</State>
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914
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           </Communication>
916
917
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918
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1060
1061
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1062

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1117
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1152
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1153
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1154
```

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1155	2.3.4.2	Conformance Statements
1156		
1157	PMIX to	NCPDP SCRIPT RxHistoryResponse
1158	1.	A Response SHALL have <i>one each</i> of the following:
1159		i. Response Date/Timestamp: <senttime></senttime>
1160		ii. Prescription Response Date Range – Begin Date: <effectivedate></effectivedate>
1161		iii. Prescription Response Date Range – End Date: <expirationdate></expirationdate>
1162		iv. Request ID: <relatestomessageid></relatestomessageid>
1163		v. Message ID: <messageid></messageid>
1164	2.	Each Response SHALL have one instance of Patient Identification.
1165	3.	Each Response SHALL have one each of the following data elements for Patient Information:
1166		i. Patient – Date of Birth: <dateofbirth></dateofbirth>
1167		ii. Patient – Gender: <gender></gender>
1168		iii. Patient Address – Street Address: <addressline1></addressline1>
1169		iv. Patient Address – City: <city></city>
1170		v. Patient Address – State: <state></state>
1171		vi. Patient Address – Zip Code: <zipcode></zipcode>
1172	4.	Each Response SHALL have one of the following information for Patient Information:
1173		i. Patient - First Name: <firstname></firstname>
1174		ii. Patient – Last Name: <lastname></lastname>
1175	5.	Each Response SHALL have <i>one or more</i> instances of Prescription Information. Prescription Information
1176		includes:
1177		i. Prescription – Filled Date: <lastfilldate></lastfilldate>
1178		ii. Prescription – Written Date: <writtendate></writtendate>
1179		iii. Prescription – Number: <sourcereference></sourcereference>
1180		iv. Dispenser Organization – Name: <storename></storename>
1181		v. Dispenser Organization – Pharmacy Identifier
1182		vi. Prescriber – First Name: <firstname></firstname>
1183		vii. Prescriber – Last Name: <lastname></lastname>
1184		viii. Method of Payment: <note></note>
1185	6.	Each Response SHOULD have one or more instances of the following Prescription Information:
1186		i. Dispenser Organization Address – Street Address: <addressline1></addressline1>
1187		ii. Dispenser Organization Address – City: <city></city>
1188		iii. Dispenser Organization Address – State: <state></state>
1189		iv. Dispenser Organization Address – Zip Code: <zipcode></zipcode>
1190		v. Dispenser Organization – Phone Number: <communicationnumbers></communicationnumbers>
1191		vi. Prescriber Address - Street Address: <addressline1></addressline1>
1192		vii. Prescriber Address – City: <city></city>
1193		viii. Prescriber Address – State: <state></state>
1194		ix. Prescriber Address – Zip Code: <zipcode></zipcode>
1195		
1196	7.	The Method of Payment value SHALL be specified in the following format:
1197		PT: <2-digit code>
1198		where the 2-digit code SHALL be one of the following values:
1199		01 = Private Pay; 04 = Commercial Insurance

1200 8. Each Prescription within a Response SHALL have one or more instances of Drug Information 96. Drug 1201 1202 Information includes: i. Drug - Quantity: <Quantity> 1203 1204 ii. Drug - Days of Supply: <DaysSupply> 1205 iii. Drug - Refill Number: <FillNumber> 1206 iv. Drug - Refills Authorized: <Refills> Drug - Product ID Qualifier: < ProductCodeQualifier> 1207 ٧. 1208 vi. Drug - Product ID: <ProductCode> 1209 9. Each Prescription within a Response SHOULD have one or more instances of the following Drug 1210 Information: Drug - Name: < Drug Description> 1211 i. ii. 1212 Drug - Strength: <StrengthValue, Code> fields 1213 iii. Drug - Dosage Form: <FormCode> 1214 10. A Response MAY have the following Drug Information for any instance of a drug: 1215 1216 i. Drug - Partial Fill Indicator 1217 11. Each Prescription within a Response SHALL have one Pharmacy Identifier per fill. The Identifier SHALL be 1218 one of the following: 1219 DEA Number: <DEANumber> 1220 ii. NCPDP Number: <NCPDPID> 1221 iii. NPI Number: <NPI> 12. Each Prescription within a Response SHALL have one Prescriber Identifier. The Identifier SHALL be one of 1222 1223 the following: DEA Number: <DEANumber> 1224 i. 1225 ii. NPI Number: <NPI> 1226 13. A Response MAY NOT have Disclosing States as unique data elements. Disclosing States can be 1227 ascertained by the Prescription Information returned. 1228 14. If the prescriber or pharmacy Identifier value is repeated within an <Identification> tag, the first occurrence of that identifier SHALL be the location. The second value of the identifier SHALL be the 1229 1230 Requesting Person. For example: 1231 For Pharmacy: 1232 <NPI> -- is the Pharmacy 1233 <NPI> --- is the Pharmacist 1234 <DEA> --- is the Pharmacy 1235 For Prescriber: <NPI> --- is the Clinic 1236 1237 <NPI> --- is the Prescriber

_

1238

<DEA>---- is the Prescriber

⁹⁶ These data elements contain what was sent from the pharmacy

1239 2.3.5 Response: PMIX to ASAP Web Services v1.1

1240

Table 15: Response Transformation Details from PMIX to ASAP Web Services v1.1

	Data Element		PMIX					ASAP Web Servi	ces v1.1						
		DE Name	Element Path	Optionali ty	Cardin ality	Data Type	DE Name	Element Path	Option ality	Cardinality	Data Type				
			Routing Information												
Respo	nse Date/ Timestamp	<pmp:reportexecutiondate> </pmp:reportexecutiondate> <pmp:reportexecutiontime> </pmp:reportexecutiontime>		R	11	Unspecified	<responsedate></responsedate>	AdHocPMPRequestRespons e/AdHocPMPRequestResult /ResponseDate		11	dateTime				
Prescription Response Data	Begin Date		pmix:RoutingData /pmp:ReportDateR ange/	R	11	niem-xsd:date		ResponseRoutingData/Rep ortRangeDate/DateRange/ DateRangeBegin	R	11	Date				
Prescript	End date	<pmp:reportdaterangeend> </pmp:reportdaterangeend>		R	11	niem-xsd:date	<daterangeend></daterangeend>	ResponseRoutingData/Rep ortRangeDate/DateRange/ DateRangeEnd	R	11	Date				
	Disclosing States	<pre><pmix:disclosingstate> </pmix:disclosingstate></pre>	pmix:RoutingData/	R	1n	Unspecified	<disclosingstate></disclosingstate>	ResponseRoutingData/DisclosingState	R	1n	String				
Request ID		<pre><pmix:requestid> </pmix:requestid></pre>	pmix:RoutingData/	R	11	Unspecified	<requestid>⁹⁸</requestid>	ResponseRoutingData/RequestID	R	11	String				

				Messa	ige Body					
First Name	<nc:persongivenname> </nc:persongivenname>	pmp:Prescription /pmp:Patient /nc:PersonName/	R	11	nc:TextType	<givenname></givenname>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ Patient/Name/ GivenName		1n	String
Last Name	<nc:personsurname> </nc:personsurname>	pmp:Prescription /pmp:Patient /nc:PersonName/	R	11	nc:TextType	<surname></surname>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ Patient/Name/ SurName	R	1n	String
Date of Birth	<nc:date> </nc:date>	pmp:Prescription /pmp:Patient /nc:PersonBirthDate/	R	11	nc:DateType	<birthdate></birthdate>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ Patient/BirthDate	R	11	Date
Gender	<nc:personsexcode> </nc:personsexcode>	pmp:Prescription /pmp:Patient/	R	11		<gender></gender>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ Patient/Gender	R	11	String
Street Address	<nc:streetfulltext> </nc:streetfulltext>	pmp:Prescription /pmp:Patient /pmp:PersonPrimaryCont actInformation /nc:ContactMailingAddre ss /nc:StructuredAddress /nc:LocationStreet/		11	nc:TextType	<streetaddress></streetaddress>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ Patient/ContactInformatio n/ StreetAddress		11	LocationIr String String
City Address	<nc:locationcityname> </nc:locationcityname>	pmp:Prescription /pmp:Patient /pmp:PersonPrimaryCont actInformation /nc:ContactMailingAddre ss /nc:StructuredAddress/	R	11	nc:TextType	<city></city>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ Patient/ContactInformation / City		11	String
State Code	<nc:locationstateuspostalservi ceCode> iceCode></nc:locationstateuspostalservi 	/pmp:Patient		11		<location StateUsPostalServ ceCode></location 	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ Patient/ContactInformatio n/ LocationStateUsPostalServi ceCode		11	String

	Zip Code	<nc:locationpostalextensioncod< th=""><th>actInformation</th><th>R</th><th>11</th><th></th><th><locationpostalco de></locationpostalco </th><th>AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ Patient/ContactInformation / LocationPostalCode</th><th>11</th><th>String</th></nc:locationpostalextensioncod<>	actInformation	R	11		<locationpostalco de></locationpostalco 	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ Patient/ContactInformation / LocationPostalCode	11	String
	SSN	<nc:identificationid> </nc:identificationid>	pmp:Prescription /pmp:Patient /pmp:PersonStateIssuedI dentifier/	CR	01	nc:Identification Type	<ssn></ssn>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ Patient/PatientID/SSN	01	String
	License		pmp:Prescription /pmp:Patient /nc:PersonSSNIdentificati on/	CR	01	nc:Identification Type	<driverlicenseid></driverlicenseid>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ Patient/PatientID/ DriversLicenseID	01	String
Patient Identifier ⁹⁹	State of License ¹⁰⁰	<pre><nc:identificationjurisdictiontex t=""> </nc:identificationjurisdictiontex></pre>	/pmp:Patient	CR	01	nc:TextType	<stateissuedid></stateissuedid>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ Patient/PatientID/StateIssu edID	01	String
Patient	Passport ID		pmp:Prescription /pmp:Patient /pmp:PersonPassportIde ntifier/	CR	01	nc:Identification Type	<passportid></passportid>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ Patient/PatientID/PassportI D	01	String
	Military ID		pmp:Prescription /pmp:Patient /pmp:PersonMilitaryIden tifier/	CR	01	nc:Identification Type	<militaryid></militaryid>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ Patient/PatientID/MilitaryI D	01	String
	Tribal Identifier		pmp:Prescription /pmp:Patient /pmp:PersonTribalIdentif ier/	CR	01	nc:Identification Type	<tribalid></tribalid>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ Patient/PatientID/TribalID	01	String

⁹⁹ Patient Identifier data is required to be provided in the response, on the condition that the data is available to be sent

¹ Required if the License is being used as the Identifier

	Filled Date	<pre><pmp:reportdaterangebegin> </pmp:reportdaterangebegin> <pmp:reportdaterangeend> </pmp:reportdaterangeend></pre>		R	1n	niem-xsd:date	·	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Prescri ptions/DispensingEventInfo /DispensingEvent/Dispense Date	R	1n	Date
	Written Date		pmp:Prescription /pmp:PrescriptionWritte nDate/	R	1n	nc:DateType		AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Prescriptions/DispensingEventInfo /DispensingEvent/WrittenDate	R	1n	Date
Prescription	Prescription Number	<pmp:prescriptionnumbertext> </pmp:prescriptionnumbertext>		R	1n	nc:TextType	ber>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Prescriptions/DispensingEventInfo /DispensingEvent/PrescriptionNumber	R	1n	String
	Drug Name ¹⁰¹	<pre><pmp:drugproductnametext> </pmp:drugproductnametext></pre>		R	1n	nc:TextType		AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Prescriptions/DispensingEventInfo /DispensingEvent/DrugName	R	1n	String
	Strength ¹⁰²		pmp:Prescription /pmp:PrescriptionDrug/	R	1n	nc:TextType	<strength></strength>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Prescriptions/DispensingEventInfo /DispensingEvent/Strength		1n	String

¹⁰¹ Drug Name data is required to be provided in the response, on the condition that the data is available to be sent

¹⁰² Drug Strength data is required to be provided in the response, on the condition that the data is available to be sent

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Dosage Form ¹⁰³	<pmp:drugunitofmeasuretext> </pmp:drugunitofmeasuretext>		R	1n	nc:TextType	<dosageform></dosageform>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Prescri ptions/DispensingEventInfo /DispensingEvent/DosageF orm	1n	String
Quantity	<pmp:dispensedquantity> </pmp:dispensedquantity>	pmp:Prescription/	R	1n	niem- xsd:decimal	<quantity></quantity>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Prescri ptions/DispensingEventInfo /DispensingEvent/Quantity	1n	Decimal
Days of Supply	<pmp:dayssupplycount> </pmp:dayssupplycount>	pmp:Prescription/	R	1n	niem- xsd:nonNegativ eInteger	<dayssupply></dayssupply>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Prescriptions/DispensingEventInfo /DispensingEvent/DaysSupply	1n	Decimal
Refill Number	<pmp:drugrefillnumbercount> </pmp:drugrefillnumbercount>		R	1n	niem- xsd:nonNegativ eInteger	<refillstatus></refillstatus>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Prescri ptions/DispensingEventInfo /DispensingEvent/RefillStat us	1n	String
Refills Authorized	<pmp:refillsauthorizedcount> </pmp:refillsauthorizedcount>	pmp:Prescription/	R	1n	niem- xsd:nonNegativ eInteger	<refillsauthorized>104</refillsauthorized>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Prescriptions/DispensingEventInfo /DispensingEvent/RefillsAuthorized	1n	String
Partial Fill Indicator	<pmp:partialfillindicator> </pmp:partialfillindicator>	pmp:Prescription/	R	1n	niem- xsd:boolean	<partialfillindicator> r></partialfillindicator>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/	1n	String

¹⁰³ Dosage Form data is required to be provided in the response, on the condition that the data is available to be sent

¹⁰⁴ Data element <RefillsAuthorized> is not currently in ASAP Web Services standard but is to be added to the next version of the standard as shown above

	Method of Payment	<pre><pmp:methodofpaymentcode> <th></th><th>R</th><th>1n</th><th>pmpcd:Method OfPaymentCode Type</th><th><paymenttype></paymenttype></th><th>PrescriptionDetails/Prescriptions/DispensingEvent/PartialFill Indicator AdHocRequestResponse/AdHocRequestResult/Details/PMPDetailedResponse/PrescriptionDetails/Prescriptions/DispensingEventInfo/DispensingEvent/Payment</th><th></th><th>1n</th><th>String</th></pmp:methodofpaymentcode></pre>		R	1n	pmpcd:Method OfPaymentCode Type	<paymenttype></paymenttype>	PrescriptionDetails/Prescriptions/DispensingEvent/PartialFill Indicator AdHocRequestResponse/AdHocRequestResult/Details/PMPDetailedResponse/PrescriptionDetails/Prescriptions/DispensingEventInfo/DispensingEvent/Payment		1n	String
	Product ID Qualifier	<identificationid></identificationid>	Unspecified	R	1N	Unspecified	<productidqualifi er>¹⁰⁵</productidqualifi 	Type AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Prescri ptions/DispensingEventInfo /DispensingEvent/ProductI DQualifier	R	11	String
Drug	Product ID	<pre><pmp:drugcpdproductidentifier><pmp:drugdinproductidentifier r=""> <pmp:drughriproductidentifier< th=""><th></th><th>R</th><th>1N</th><th>Unspecified</th><th><productid>¹⁰⁶</productid></th><th>AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Prescri ptions/DispensingEventInfo /DispensingEvent/ProductI D</th><th>R</th><th>11</th><th>String</th></pmp:drughriproductidentifier<></pmp:drugdinproductidentifier></pmp:drugcpdproductidentifier></pre>		R	1N	Unspecified	<productid>¹⁰⁶</productid>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Prescri ptions/DispensingEventInfo /DispensingEvent/ProductI D	R	11	String

¹⁰⁵ Data element < ProductIDQualifier > is not currently in ASAP Web Services standard but is to be added to the next version of the standard as shown above

¹⁰⁶ Data element < ProductID> is not currently in ASAP Web Services standard but to be added to the next version of the standard as shown above

	Name (Pharmacy)	<nc:organizationdoingbusiness asname=""> </nc:organizationdoingbusiness>	pmp:Prescription /pmp:Dispenser/	R	1n	nc:TextType		AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Pharma cyDispenseInfo/Pharmacy/ Location/ StreetAddress	11	String
	Street Address ¹⁰⁷		pmp:Prescription /pmp:Dispenser /nc:OrganizationLocation /nc:LocationAddress /nc:StructuredAddress /nc:LocationStreet/	R	1n	nc:TextType	·	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Pharma cyDispenseInfo/Pharmacy/ Location/ City		LocationInfo String String
Dispenser Organization	City Address ¹⁰⁸	<nc:locationcityname> </nc:locationcityname>	pmp:Prescription /pmp:Dispenser /nc:OrganizationLocation /nc:LocationAddress /nc:StructuredAddress/		1n	nc:TextType	<city></city>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Pharma cyDispenseInfo/Pharmacy/ Location/ City	1n	String
Dispe	State Code ¹⁰⁹	<nc:locationstateuspostalservi ceCode> rviceCode></nc:locationstateuspostalservi 	pmp:Prescription /pmp:Dispenser /nc:OrganizationLocation /nc:LocationAddress /nc:StructuredAddress/	R	1n		ostalServiceCode>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Pharmacy/ Location/ LocationStateUsPostalServiceCode	1n	String
	Zip Code ¹¹⁰	<nc:locationpostalcode> </nc:locationpostalcode>	pmp:Prescription /pmp:Dispenser /nc:OrganizationLocation /nc:LocationAddress /nc:StructuredAddress/	R	1n	Unspecified	de>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/PharmacyDispenseInfo/Pharmacy/ Location/	1n	String

¹⁰⁷ Dispenser Organization Street Address data is required to be provided in the response, on the condition that the data is available to be sent

¹⁰⁸ Dispenser Organization City Address data is required to be provided in the response, on the condition that the data is available to be sent

¹⁰⁹ Dispenser Organization State Code data is required to be provided in the response, on the condition that the data is available to be sent

¹¹⁰ Dispenser Organization Zip Code data is required to be provided in the response, on the condition that the data is available to be sent

								LocationPostalCode			
	Phone Number ¹¹¹	<nc:telephonenumberfullid> </nc:telephonenumberfullid>			1n	Unspecified		AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Pharma cyDispenseInfo/Pharmacy/ Location/ Phone	R	1n	String
Identifier	DEA Number	<nc:identificationid> </nc:identificationid>	pmp:Prescription /pmp:Dispenser /pmp:DEANumberIdentifi er/		0n	nc:Identification Type		AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Pharma cyDispenseInfo/Pharmacy/ PharmacyID/ DEANumber		03	String
Dispenser Organization (Pharmacy) Identifier	NCPDP Number	<nc:identificationid> </nc:identificationid>	pmp:Prescription /pmp:Dispenser /pmp:NCPDPIdentifier/	R	0n	nc:Identification Type	>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Pharma cyDispenseInfo/Pharmacy/ PharmacyID/ NCPDPProviderID	R	03	String
Dispenser Org	NPI Number	<nc:identificationid> </nc:identificationid>	pmp:Prescription /pmp:Dispenser /pmp:NPIIdentifier/	R	0n	nc:Identification Type	ID>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Pharma cyDispenseInfo/Pharmacy/ PharmacyID/ NationalProviderID		03	String
Prescriber	First Name	<nc:persongivenname> </nc:persongivenname>	pmp:Prescription /pmp:Prescriber /nc:PersonName/	R	1n	nc:TextType		AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Prescri ptions/DispensingEventInfo /Prescriber/Name /GivenName		11	String

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¹¹¹ Dispenser Organization Phone Number data is required to be provided in the response, on the condition that the data is available to be sent

Last Name	<nc:personsurname> </nc:personsurname>	pmp:Prescription /pmp:Prescriber /nc:PersonName/	R	1n	nc:TextType	<surname></surname>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Prescri ber/Name/PersonName/Su rName	11	String
Street Address ¹¹²	<nc:streetfulltext> </nc:streetfulltext>	pmp:Prescription /pmp:Prescriber /pmp:PersonPrimaryCont actInformation /nc:ContactEntity /nc:EntityOrganization /nc:OrganizationLocation /nc:LocationAddress /nc:StructuredAddress /nc:LocationStreet/		1n	nc:TextType	<streetaddress3></streetaddress3>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Prescri ptions/DispensingEventInfo /Prescriber/Location/ StreetAddress	1n	String
City Address ¹¹³	<nc:locationcityname> </nc:locationcityname>	pmp:Prescription /pmp:Prescriber /pmp:PersonPrimaryCont actInformation /nc:ContactEntity /nc:EntityOrganization /nc:OrganizationLocation /nc:LocationAddress /nc:StructuredAddress/		1n	nc:TextType	<city></city>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Prescri ptions/DispensingEventInfo /Prescriber/Location/ City	1n	String
State Code ¹¹⁴		pmp:Prescription /pmp:Prescriber /pmp:PersonPrimaryCont actInformation /nc:ContactEntity /nc:EntityOrganization /nc:OrganizationLocation /nc:LocationAddress /nc:StructuredAddress/		1n	Unspecified	ostalServiceCode>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Prescriptions/DispensingEventInfo/Location/LocationStateUs PostalServiceCode	1n	String

¹¹² Prescriber Street Address data is required to be provided in the response, on the condition that the data is available to be sent

¹¹³ Prescriber City Address data is required to be provided in the response, on the condition that the data is available to be sent

¹¹⁴ Prescriber State Code data is required to be provided in the response, on the condition that the data is available to be sent

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	Zip Code ¹¹⁵	<nc:locationpostalcode> </nc:locationpostalcode>	pmp:Prescription /pmp:Prescriber /pmp:PersonPrimaryCont actInformation /nc:ContactEntity /nc:EntityOrganization /nc:OrganizationLocation /nc:LocationAddress /nc:StructuredAddress/	R	1n	Unspecified	ae>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Prescri ptions/DispensingEventInfo /Prescriber/Location/ LocationPostalCode		1n	String
	DEA Number		pmp:Prescription /pmp:Prescriber /pmp:DEANumberIdentifi er/	R	0n	nc:Identification Type		AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Prescriptions/DispensingEventInfo /Prescriber/PrescriberID/D EANumber		03	String
Prescriber Identifier	NPI Number	<nc:identificationid> </nc:identificationid>	pmp:Prescription /pmp:Prescriber /pmp:NPIIdentifier/	R	0n	nc:Identification Type		AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Prescri ptions/DispensingEventInfo /Prescriber/PrescriberID/ NPI	R	03	String
Prescriber	State License Identifier	<nc:identificationid> </nc:identificationid>	pmp:Prescription /pmp:Prescriber /pmp:StateLicenseIdentif ier/	R	0n	nc:Identification Type	ber>	AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Prescriptions/DispensingEventInfo/Prescriber/PrescriberID/St ateLicenseNumber		03	String
	State of License ¹¹⁶	<nc:identificationjurisdictiontex t> xt></nc:identificationjurisdictiontex 	/pmp:Prescriber	R	0n	nc:TextType		AdHocRequestResponse/A dHocRequestResult/Details /PMPDetailedResponse/ PrescriptionDetails/Prescriptions/DispensingEventInfo/Prescriber/PrescriberID/St atelssuedID		01	String

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¹¹⁵ Prescriber Zip Code data is required to be provided in the response, on the condition that the data is available to be sent

 $^{^{\}rm 116}$ Required if the State License ID is being used as the Identifier

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2.3.5.1 **ASAP Web Services Coded Example – Response**

The following ASAP Web Services response message example assumes a match on a person of interest (Alexander Fleming), returning one instance of a PDMP drug, oxymorphone, and corresponding prescriber and dispenser information. ASAP Web Services specification allows for free text messages, if applicable, as part of the message response. Additionally, ASAP Web Services provides the option of including a "summary" of the report, containing the number of prescriptions, pharmacies, and prescribers detailed in the response.

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While this artifact does not offer guidance on patient identity matching due to variability in algorithmic solutions and implementation approaches taken to capture patients in a PDMP query integrated within a Health IT System, this implementation guide acknowledges that certain states may employ a two pass process involving a picklist mechanism. To accommodate situations where a picklist has been developed by the sovereign PDMP, Health IT Systems and PDMP Hubs may choose to implement the two pass query process. In such cases, the response message will contain reference numbers associated with possible patients matching the query parameters. Refer to the ASAP Web Services Version 1 Release 1 specification for detailed guidance on implementing a two pass process.

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Data elements required by this implementation guide but not explicitly written into the ASAP Web Services Version 1 Release 1 specification, are included within the SOAP envelope transport layer of the request transaction. The required data elements contained within the transport layer of the response transaction, as specified by the conformance statements in section 2.3.5.2 below, include: Request ID and Disclosing State(s). Product ID, Product ID Qualifier, and Refills Authorized are required data elements comprised within the message body not currently supported by the ASAP Web Service Version 1 Release 1 specification. These will be incorporated into the ASAP Web Service standard per the guidance in section 3.2.

1265 1266

```
<?xml version="1.0" encoding="utf-8"?>
1267
1268
        <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
1269
        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
        xmlns:xsd="http://www.w3.org/2001/XMLSchema">
1270
1271
          <ResponseRoutingData>
1272
                <ReguestID>123456789AA001</ReguestID>
1273
                <DisclosingState>VA</DisclosingState>
1274
                <ReportDateRange>
1275
                       <DateRangeBegin>2014-08-01T00:00:00/DateRangeBegin>
                       <DateRangeEnd>2014-08-20T00:00/DateRangeEnd>
1276
1277
                </ReportDateRange>
1278
          </ResponseRoutingData>
1279
                <soap:Body>
1280
                        <AdHocPMPRequestResponse xmlns="http://www.asapnet.org/pmprequest">
1281
                               <AdHocPMPRequestResult>
1282
                                       <ResponseDate>2014-08-21T00:00:00-04:20/ResponseDate>
1283
                                       <Details>
1284
                                               <PMPDetailedResponse>
1285
                                               <Patient>
1286
                                                      <BirthDate>1981-08-08T00:00:00</BirthDate>
1287
                                                      <Name>
                                                              <GivenName>Alexander</GivenName>
1288
                                                              <SurName>Fleming</SurName>
1289
1290
                                                      </Name>
1291
                                                      <ContactInformation>
1292
                                                              <StreetAddress>1000 ABC St</StreetAddress>
```

```
1293
                                                               <City>SomeWhere</City>
1294
                                                               <LocationStateUsPostalServiceCode>VA</LocationSt
1295
                                                               ateUsPostalServiceCode>
1296
                                                               <LocationPostalCode>12345</LocationPostalCode>
1297
                                                       </ContactInformation>
                                                       <PatientID>
1298
1299
                                                               <SSN>123-45-6789</SSN>
1300
                                                               <DriversLicenseID>
1301
                                                               <StateIssuedID></StateIssuedID>
1302
                                                               <PassportID></PassportID>
                                                               <MilitaryID></MilitaryID>
1303
                                                               <TribalID></TribalID>
1304
1305
                                                       </PatientID>
                                                       <Gender>M</Gender>
1306
1307
                                               </Patient>
1308
                                               <Pre><PrescriptionDetails>
1309
                                                       <PharmacyDispenseInfo>
1310
                                                       <Pharmacy>
                                                               <PharmacyName>Abcd Efgh
1311
                                                               Pharmacy</PharmacyName>
1312
                                                               <PharmacyID>
1313
                                                                       <DEANumber> AB1234563</DEANumber>
1314
1315
                                                                       <NationalProviderID></NationalProviderID>
1316
                                                                       <NCPDPProviderID></NCPDPProviderID>
1317
                                                               </PharmacyID>
                                                               <Location>
1318
1319
                                                                       <Phone>123-456-7890</Phone>
                                                                       <StreetAddress>2000 CDE
1320
1321
                                                                       St</StreetAddress>
1322
                                                                       <City>AnotherCity</City>
1323
                                                                       <LocationStateUsPostalServiceCode>VA</L
1324
                                                                       ocationStateUsPostalServiceCode>
1325
                                                                       <LocationPostalCode>12345</LocationPost
                                                                       alCode>
1326
1327
                                                               </Location>
                                                       </Pharmacy>
1328
1329
                                                       <Prescriptions>
                                                               <DispensingEventInfo>
1330
                                                                       <Prescriber>
1331
1332
                                                                               <Name>
1333
                                                                                      <GivenName>Miles</Give
1334
                                                                                      nName>
1335
                                                                                      <SurName>Davis</SurNa
1336
                                                                                      me>
1337
                                                                               </Name>
                                                                        <PrescriberID>
1338
1339
                                                                                   <DEANumber>
1340
                                                                                   CD3456781</DEANumber>
1341
                                                                                   <NationalProviderID></Natio
1342
                                                                                   nalProviderID>
                                                                                   <StateLicenseNumber></Stat
1343
1344
                                                                                   eLicenseNumber>
```

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```
<StateIssuedID></StateIssued
1345
1346
                                                                                       ID>
                                                                            </PrescriberID>
1347
1348
                                                                                  <Location>
1349
                                                                                           <Phone></Phone>
                                                                                           <StreetAddress>3000 FGH
1350
                                                                                           Drive</StreetAddress>
1351
1352
                                                                                           <StreetAddress2>Suite
1353
                                                                                           100</StreetAddress2>
1354
                                                                                           <City>AnotherCity</City>
1355
                                                                                           <LocationStateUsPostalSe</pre>
                                                                                           rviceCode>VA</LocationS
1356
1357
                                                                                          tateUsPostalServiceCode>
1358
                                                                                           <LocationPostalCode>123
1359
                                                                                          45</LocationPostalCode>
1360
                                                                                  </Location>
1361
                                                                          </Prescriber>
1362
                                                                          <DispensingEvent>
1363
                                                                                  <DispenseDate>2012-02-
                                                                                  08T00:00:00</DispenseDate>
1364
                                                                                  <WrittenDate>2012-02-
1365
                                                                                  08T00:00:00</WrittenDate>
1366
                                                                                  <Pre><PrescriptionNumber>987654321<</pre>
1367
1368
                                                                                  /PrescriptionNumber>
1369
                                                                                  <DrugName>oxymorphone/Drug
1370
                                                                                  Name>
                                                                                  <Strength>20MG</Strength>
1371
                                                                                  <DosageForm>TAB</DosageForm>
1372
1373
                                                                                  <Quantity>10</Quantity>
1374
                                                                                  <DaysSupply>10</DaysSupply>
1375
                                                                                  <RefillsAuthorized>0</RefillAuthor
1376
1377
                                                                                  <RefillNumber>0</RefillNumber>
                                                                                  <PartialFillIndicator>0</PartialFillIn
1378
1379
                                                                                  dicator>
                                                                                  <PaymentType>01<sup>117</sup></PaymentTy
1380
1381
                                                                                  pe>
1382
                                                                                  <ProductID>60951-
                                                                                  0794</ProductID>
1383
1384
                                                                                  <ProductIDQualifier>NDC
                                                                                  Code</ProductIDQualifier>
1385
                                                                          </DispensingEvent>
1386
                                                                  </DispensingEventInfo>
1387
1388
                                                          </Prescriptions>
                                                          </PharmacyDispenseInfo>
1389
                                                 </PrescriptionDetails>
1390
1391
                                                  <Messages>
1392
                                                   <string>Free form message</string>
1393
                                                 </Messages>
```

¹¹⁷ Code "01" or "Private Pay" includes Cash, Charge, Credit Card as payment methods.

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```
1394
                                               <Summary>
1395
                                                 <NumberOfPharmacies>1</NumberOfPharmacies>
1396
                                                 <NumberOfPrescribers>1</NumberOfPrescribers>
1397
                                                 <NumberOfPrescriptions>1</NumberOfPrescriptions>
1398
                                               </Summary>
                                               </PMPDetailedResponse>
1399
1400
                                       </Details>
1401
                               </AdHocPMPRequestResult>
1402
                        </AdHocPMPRequestResponse>
1403
                </soap:Body>
1404
        </soap:Envelope>
1405
1406
        In the event where no match can be found, the following example message would be returned by the PDMP and
1407
        subsequently, the PDMP Hub.
1408
        <?xml version="1.0" encoding="utf-8"?>
1409
        <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"</pre>
1410
        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
1411
         <soap:Body>
           <AdHocPMPRequestResponse xmlns="http://www.asapnet.org/pmprequest">
1412
1413
             <AdHocPMPRequestResult>
              <ResponseDate>2014-08-21T00:00:00</ResponseDate>
1414
1415
              <Details/>
1416
             </AdHocPMPRequestResult>
1417
           </AdHocPMPRequestResponse>
1418
          </soap:Body>
1419
        </soap:Envelope>
1420
```

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1421	2.3.5.2	Со	ntormano	ce Statements
1422				
1423	A.			eb Services
1424		1.		esponse SHALL have one each of the following:
1425				Response Date/Timestamp: <responsedate></responsedate>
1426			ii.	Request ID: <requestid></requestid>
1427			iii.	Disclosing States: <disclosingstate></disclosingstate>
1428			iv.	
1429			٧.	
1430		2.	Each Re	sponse SHALL have one each of the following data elements:
1431			i.	Patient First Name: <givenname></givenname>
1432			ii.	Patient Last Name: <surname></surname>
1433			iii.	Patient Date of Birth: <birthdate></birthdate>
1434			iv.	Patient Address – Street Address: <streetaddress></streetaddress>
1435			٧.	Patient Address – City: <city></city>
1436			vi.	Patient Address – State: <locationstateuspostalservicecode></locationstateuspostalservicecode>
1437			vii.	Patient Address – Zip Code: <locationpostalcode></locationpostalcode>
1438			viii.	Patient – Gender: <gender></gender>
1439			ix.	Dispenser Organization – Name: <pharmacyname></pharmacyname>
1440			х.	Prescriber First Name: <givenname></givenname>
1441			xi.	Prescriber Last Name: <surname></surname>
1442		3.	Each Re	sponse SHOULD include one of each of the following data elements:
1443			i.	Dispenser Organization – Phone Number: <phone></phone>
1444			ii.	Dispenser Organization Address – Street Address: <streetaddress></streetaddress>
1445			iii.	Dispenser Organization Address – City: <city></city>
1446			iv.	Dispenser Organization Address – State: <locationstateuspostalservicecode></locationstateuspostalservicecode>
1447			v.	Dispenser Organization Address – Zip Code: <locationpostalcode></locationpostalcode>
1448			vi.	Prescriber Address - Street Address: <streetaddress></streetaddress>
1449			vii.	Prescriber Address – City: <city></city>
1450			viii.	Prescriber Address – State: <locationstateuspostalservicecode></locationstateuspostalservicecode>
1451			ix.	Prescriber Address – Zip Code: <locationpostalcode></locationpostalcode>
1452		4.	Each Re	sponse SHOULD have one or more Patient Identifiers. If provided, the Identifier SHALL be
1453			one or r	more of the following:
1454			i.	Patient Identifier – SSN: <ssn></ssn>
1455			ii.	Patient Identifier – License ID: <driverslicenseid></driverslicenseid>
1456			iii.	Patient Identifier – State of License: <stateissuedid></stateissuedid>
1457			iv.	Patient Identifier – Passport ID: <passportid></passportid>
1458			v.	Patient Identifier – Military ID: <militaryid></militaryid>
1459			vi.	Patient Identifier – Tribal Identifier: <tribalid></tribalid>
1460		5.	Each Re	sponse SHALL have one Dispenser Organization (Pharmacy) Identifier. The Identifier
1461				be one of the following data elements:
1462				DEA Number: <deanumber></deanumber>
1463			ii.	NCPDP Number: <ncpdpproviderid></ncpdpproviderid>
1464			iii.	NPI Number: <nationalproviderid></nationalproviderid>

1465	6.	Each Response SHALL have one Prescriber Identifier. The Identifier SHALL be one of the
1466		following:
1467		i. DEA Number: <deanumber></deanumber>
1468		ii. NPI Number: <npi></npi>
1469		iii. State License ID: <statelicensenumber></statelicensenumber>
1470	7.	Each Response SHALL have one State of License if State License ID <stateissuedid> is provided.</stateissuedid>
1471	8.	Each Prescription within a Response SHALL have one or more instances of Prescription
1472		Information. Prescription Information includes:
1473		i. Prescription Filled Date: <dispensedate></dispensedate>
1474		ii. Prescription Written Date: <writtendate></writtendate>
1475		iii. Prescription Number: <prescriptionnumber></prescriptionnumber>
1476		iv. Drug Quantity: <quantity></quantity>
1477		v. Days of Supply: <dayssupply></dayssupply>
1478		vi. Refills Authorized: <refillsauthorized></refillsauthorized>
1479		vii. Refill Number: <refillnumber></refillnumber>
1480		viii. Partial Fill Indicator: <partialfillindicator></partialfillindicator>
1481		ix. Method of Payment: <paymenttype></paymenttype>
1482		x. Product ID: <productid></productid>
1483		xi. Product ID Qualifier: <productidqualifier></productidqualifier>
1484	9.	Each Prescription within a Response SHOULD have one or more instances of the following
1485		Prescription Information:
1486		i. Drug Name: <drugname></drugname>
1487		ii. Drug Strength: <strength></strength>
1488		iii. Drug Dosage Form: <dosageform></dosageform>
1489		

1490 **2.3.6** Response: PMIX to HL7 v2.7

Date El	ement		PMIX				Н	L7 V2.7.1		
		Data Element	Element Path	Optionality	Cardinality	Data Type	Element Path	Optionality	Cardinality	Data Type
				Rout	ing Informat	ion				
Response Date	e/Time	<pre><pmp:reportexecuti ondate=""> <pmp:reportexecuti ontime=""> </pmp:reportexecuti></pmp:reportexecuti></pre>	pmix:RoutingData/	R	11	Unspecified	QPD.19 ResponseDateTime ¹¹⁸	С	01	ОТМ
Prescription Response Data	Begin Date	<pre><pmp:reportdatera ngebegin=""> </pmp:reportdatera></pre>	pmix:RoutingData /pmp:ReportDateRange/	R	11	niem-xsd:date	QPD.17 DispenseDate.LL	0	01	DT
	End Date	<pre><pmp:reportdatera ngeend=""> </pmp:reportdatera></pre>	pmix:RoutingData /pmp:ReportDateRange/	R	11	niem-xsd:date	QPD.18 DispenseDate.UL	0	01	DT
Disclosing Stat	tes	<pre><pmix:disclosingstat e=""> </pmix:disclosingstat></pre>	pmix:RoutingData/	R	1N	Unspecified	QPD.5 DisclosingStates ¹¹⁹	ST	1*	ST
Request ID		<pre><pmix:requestid> </pmix:requestid></pre>	pmix:RoutingData/	R	11	Unspecified	QPD.2 QueryTag	R	11	ST

¹¹⁸ ResponseDateTime is not currently supported by HL7 V2.7 Query. Concept has been added to the QPD segment as a user-defined query-response parameter.

¹¹⁹ DisclosingStates is not currently supported by HL7 V2.7 Query. Concept has been added to the QPD segment as a user-defined query-response parameter.

				M	essage Body	y'				
Patient	First Name	<nc:persongivenna me> </nc:persongivenna me>	pmp:Prescription /pmp:Patient /nc:PersonName/	R	1N	nc:TextType	PID.5.2 GivenName	С	01	ST
	Last Name		pmp:Prescription /pmp:Patient /nc:PersonName/	R	1N	nc:TextType	PID 5.1.1 FamilyName.Surname	С	01	ST
	Date of Birth		pmp:Prescription /pmp:Patient /nc:PersonBirthDate/	R	11	nc:DateType	PID.7 Date/Time of Birth	0	01	DTM
	Gender	>	pmp:Prescription /pmp:Patient/	R	11	Unspecified	PID.8 Administrative Sex	0	01	IS
	Street Address	<nc:streetfulltext> </nc:streetfulltext>	pmp:Prescription /pmp:Patient /pmp:PersonPrimaryConta ctInformation /nc:ContactMailingAddress / nc:StructuredAddress /nc:LocationStreet/	R	11	nc:TextType	PID.11.1 PatientAddress.StreetAddress WHERE PID.11.7 Address Type = "H" home or "M" Mailing	o	01	ST
	City Address	<nc:locationcityna me> </nc:locationcityna me>	pmp:Prescription /pmp:Patient /pmp:PersonPrimaryConta ctInformation /nc:ContactMailingAddress /nc:StructuredAddress/		11	nc:TextType	PID.11.3 PatientAddress.City WHERE PID.11.7 Address Type = "H" home or "M" Mailing	0	01	ST
	State Code	<nc:locationstateus postalservicecode=""> </nc:locationstateus>	pmp:Prescription /pmp:Patient /pmp:PersonPrimaryConta ctInformation /nc:ContactMailingAddress / nc:StructuredAddress/	R	11	Unspecified	PID.11.4 PatientAddress.StateOrProvinc e WHERE PID.11.7 AddressType = "H" home or "M" Mailing	0	01	ST

	Zip Code	Code>	pmp:Prescription /pmp:Patient /pmp:PersonPrimaryConta ctInformation /nc:ContactMailingAddress / nc:StructuredAddress/	R	11	Unspecified	PID.11.5 PatientAddress.PostalOrZIPCod e WHERE PID.11.7 Address Type = "H" home or "M" Mailing	0	01	ST
Patient Identifier ¹²⁰	SSN	<nc:identificationid> </nc:identificationid>	pmp:Prescription /pmp:Patient /nc:PersonSSNIdentificatio n/	CR	01	nc:IdentificationT ype	PID.3.1 PatientIdenifierList.ID WHERE PID.3.5 Identifier.Type = "SS"	0	0*	ST
	License	<nc:identificationid> </nc:identificationid>	pmp:Prescription /pmp:Patient /pmp:PersonStateIssuedId entifier/	CR	01	nc:IdentificationT ype	PID.3.1 PatientIdenifierList.ID WHERE PID.3.5 Identifier.Type = "DL"	0	01	ST
	State of License	<nc:identificationjur isdictionText> risdictionText></nc:identificationjur 	pmp:Prescription /pmp:Patient /pmp:PersonStateIssuedId entifier/	CR	01	nc:TextType	PID.3.3.1 PatientIdentifierList.AssigningA uthority WHERE PID.3.5 Identifier.Type = "DL"	0	01	IS
	Passport ID	<nc:identificationid> </nc:identificationid>	pmp:Prescription /pmp:Patient /pmp:PersonPassportIdent ifier/	CR	01	nc:IdentificationT ype	PID.3.1 PatientIdenifierList.ID WHERE PID.3.5 Identifier.Type. = "PPN"	0	01	ST
	Military ID	<nc:identificationid> </nc:identificationid>	pmp:Prescription /pmp:Patient /pmp:PersonMilitaryIdentif ier/	CR	01	nc:IdentificationT ype	PID.3.1 PatientIdenifierList.ID WHERE PID.3.5 Identifier.Type = "MI"	0	01	ST
	Tribal	<nc:identificationid></nc:identificationid>	pmp:Prescription	CR	01	nc:IdentificationT	PID.3.1 PatientIdenifierList.ID	0	01	ST

¹²⁰ Patient Identifier data is required to be provided in the response, on the condition that the data is available to be sent

	Identifier	>	/pmp:Patient /pmp:PersonTribalIdentifie r/			уре	WHERE PID.3.5 Identifier.Type = "IND" Indigenous/Aboriginal or "TN" Treaty Number			
Prescription	Filled Date	<pre><pmp:reportdatera ngebegin=""> <pmp:reportdatera ngeend=""></pmp:reportdatera></pmp:reportdatera></pre>	pmp:ReportDateRange/	R	1N	niem-xsd:date	RXD.3 DateTimeDispensed	R	11	DTM
	Written Date	<nc:date> </nc:date>	pmp:Prescription /pmp:PrescriptionWritten Date/	R	1N	nc:DateType	RXE.32 OriginalOrderDateTime	0	01	DTM
	Number	<pre><pmp:prescriptionn umbertext=""> </pmp:prescriptionn></pre>	pmp:Prescription/	R	1N	nc:TextType	RXD.7 PrescriptionNumber	R	11	ST
		<pre><pmp:drugproductn ametext=""> </pmp:drugproductn></pre>	pmp:Prescription /pmp:PrescriptionDrug/	CR	1N	nc:TextType	RXD.2.2 DispenseGiveCode.text	R	11	ST
	Strength ¹²²	<pre><pmp:drugstrength text=""> </pmp:drugstrength></pre>	pmp:Prescription /pmp:PrescriptionDrug/	CR	1N	nc:TextType	If not implied in RXD.2.2 use RXD.16 Actual Stength & RXD.17.2 Actual Strength Unit.text	0	01	calculat ed
		<pre><pmp:drugunitofm easuretext=""></pmp:drugunitofm></pre>	pmp:Prescription /pmp:PrescriptionDrug/	CR	1N	nc:TextType	If not implied in RXD.2.2 use RXD.6 ActualDosageForm	0	01	CWE

¹²¹ Drug Name data is required to be provided in the response, on the condition that the data is available to be sent

¹²² Drug Strength data is required to be provided in the response, on the condition that the data is available to be sent

¹²³ Dosage Form data is required to be provided in the response, on the condition that the data is available to be sent

	Quantity	<pre><pmp:dispensedqu antity=""> </pmp:dispensedqu></pre>	pmp:Prescription/	R	1N	niem-xsd:decimal	RXD.4 Actual Dispense Amount	R	11	NM
	Days of Supply	<pre><pmp:dayssupplyco unt=""> </pmp:dayssupplyco></pre>	pmp:Prescription/	R	1N	niem- xsd:nonNegativel nteger	Calculated: RXD.4 Actual Dispense Amount / RXD.12 Total Daily Dose	О	11	calculat ed
	Refill Number	<pre><pmp:drugrefillnu mbercount=""> </pmp:drugrefillnu></pre>	pmp:Prescription/	R	1N	niem- xsd:nonNegativel nteger	RXD.1 DispenseSubIDCounter	R	11	NM
	Refills Authorized	<pmp:refillsauthori zedCount> izedCount></pmp:refillsauthori 	pmp:Prescription/	R	1N	niem- xsd:nonNegativel nteger	RXO.13 Number of Refills OR RXE.12 Number of Refills OR RXD.1 Dispense SubID Counters PLUS RXD.8 Number of Refills Remaining	R	11	NM
	Partial Fill Indicator	<pmp:partialfillindic ator> cator></pmp:partialfillindic 	pmp:Prescription/	R	1N	niem-xsd:boolean	RXD.33.1 DispenseTypeCode ="Q" is partial fill	o	01	ST
	Method of Payment	<pmp:methodofpay mentCode> ymentCode></pmp:methodofpay 	pmp:Prescription/	R	1N	pmpcd:MethodOf PaymentCodeTyp e	FT1.6 TransactionType	R	11	CWE
Drug	Product ID Qualifier	<pmp:drugcpdprod uctIdentifier><pmp: DrugDINProductIde ntifier> <pmp:drughriprod uctIdentifier> <pmp:drugndcprod uctIdentifier></pmp:drugndcprod </pmp:drughriprod </pmp: </pmp:drugcpdprod 		R	1N	-	RXD.2.3 DispenseGiveCode.CodingSyste m	С	01	IS

		<pmp:drugupcprod uctIdentifier> <pmp:drugupnprod uctIdentifier></pmp:drugupnprod </pmp:drugupcprod 								
	Product ID	<ld><ldentificationid></ldentificationid></ld>	NA	R	1N	Unspecified	RXD.2.1 DispenseGiveCode.Code	С	01	ST
Dispenser Organization	(Pharmacy)	<nc:organizationdoi ngBusinessAsName> oingBusinessAsNam e></nc:organizationdoi 	pmp:Prescription /pmp:Dispenser/	R	1N	nc:TextType	PRT(RXD).8.1 Participation.Organization.Organization.Name WHERE PRT(RXD).4.1 Participation.code = "DP" Dispensing Provider	С	0*	ST
	Street Address ¹²⁴	<nc:streetfulltext> </nc:streetfulltext>	pmp:Prescription /pmp:Dispenser /nc:OrganizationLocation /nc:LocationAddress /nc:StructuredAddress /nc:LocationStreet/	CR	1N	nc:TextType	PRT(RXD).14.1 ParticipationAddress.StreetAdd ress WHERE PRT(RXD).4.1 Participation.code = "DP" Dispensing Provider	0	0*	ST
		<nc:locationcityna me> </nc:locationcityna me>	pmp:Prescription /pmp:Dispenser /nc:OrganizationLocation /nc:LocationAddress /nc:StructuredAddress/	CR	1N	nc:TextType	PRT(RXD).14.3 ParticipationAddress.City WHERE PRT(RXD).4.1 Participation.code = "DP" Dispensing Provider	0	0*	ST
		<nc:locationstateus PostalServiceCode> SPostalServiceCode></nc:locationstateus 	pmp:Prescription /pmp:Dispenser /nc:OrganizationLocation /nc:LocationAddress	CR	1N	-	PRT(RXD).14.5 ParticipationAddress.State WHERE PRT(RXD).4.1 Participation.code = "DP"	0	0*	ST

¹²⁴ Dispenser Organization Street Address data is required to be provided in the response, on the condition that the data is available to be sent

Dispenser Organization City Address data is required to be provided in the response, on the condition that the data is available to be sent

Dispenser Organization State Code data is required to be provided in the response, on the condition that the data is available to be sent

			/nc:StructuredAddress/				Dispensing Provider			
	Zip Code ¹²⁷	<nc:locationposta ICode> Code></nc:locationposta 	pmp:Prescription /pmp:Dispenser /nc:OrganizationLocation /nc:LocationAddress /nc:StructuredAddress/	CR	1N	-	PRT(RXD).14.6 ParticipationAddressZIP WHERE PRT(RXD).4.1 Participation.code = "DP" Dispensing Provider	0	0*	ST
	Phone Number ¹²⁸	<nc:telephonenum berFullID> </nc:telephonenum berFullID>	pmp:Prescription /pmp:Dispenser /nc:OrganizationPrimaryCo ntactInformation /nc:ContactTelephoneNum ber /nc:FullTelephoneNumber/		1N		PRT(RXD).15.12 ParticipationTelecommunicatio nsAddress.UnformattedTeleph oneNumber WHERE PRT(RXD).4.1 Participation.code = "DP" Dispensing Provider	o	0*	calculat ed
Dispenser Organization (Pharmacy) Identifier	DEA Number	<nc:identificationid> </nc:identificationid>	pmp:Prescription /pmp:Dispenser /pmp:DEANumberIdentifie r/	CR ¹²⁹	0N	nc:IdentificationT ype	PRT(RXD).8.10 ParticipationOrganization.Orga nizationIdentifier WHERE PRT(RXD).8.7 IdentifierTypeCode = "DEA" AND WHERE PRT(RXD).4.1 Participation.code = "DP" Dispensing Provider	o	01	ST
	NCPDP Number	<nc:identificationid> </nc:identificationid>	pmp:Prescription /pmp:Dispenser /pmp:NCPDPIdentifier/	CR	0N	уре	PRT(RXD).8.10 ParticipationOrganization.Orga nizationIdentifier WHERE PRT(RXD).8.7 IdentifierTypeCode = "NCPDP" AND WHERE PRT(RXD).4.1 Participation.code = "DP" Dispensing Provider	O	01	ST

¹²⁷ Dispenser Organization Zip Code data is required to be provided in the response, on the condition that the data is available to be sent

¹²⁸ Dispenser Organization Phone Number data is required to be provided in the response, on the condition that the data is available to be sent

¹²⁹ CR: Conditionally Required

	NPI Number	<nc:identificationid> </nc:identificationid>	pmp:Prescription /pmp:Dispenser /pmp:NPIIdentifier/	CR	0N	nc:IdentificationT ype	PRT(RXD).8.10 ParticipationOrganization.Orga nizationIdentifier WHERE PRT(RXD).8.7 IdentifierTypeCode = "NPI" AND WHERE PRT(RXD).4.1 Participation.code = "DP" Dispensing Provider	0	01	ST
Prescriber	First Name	<nc:persongivenna me> </nc:persongivenna me>	pmp:Prescription /pmp:Prescriber /nc:PersonName/	R	1N	,,	PRT(RXD).5.3 ParticipationPerson.GivenNam e WHERE PRT(RXD).4.1 Participation.code = "OP" Ordering Provider	R	11	ST
	Last Name	<nc:personsurname> </nc:personsurname>	pmp:Prescription /pmp:Prescriber /nc:PersonName/	R	1N	nc:TextType	PRT(RXD).5.2.1 ParticipationPerson.FamilyNam e.Surname WHERE PRT(RXD).4.1 Participation.code = "OP" Ordering Provider	R	11	ST
	Street Address ¹³⁰		pmp:Prescription /pmp:Prescriber /pmp:PersonPrimaryConta ctInformation /nc:ContactEntity /nc:EntityOrganization /nc:OrganizationLocation /nc:LocationAddress /nc:StructuredAddress /nc:LocationStreet/	CR	1N	nc:TextType	PRT(RXD).14.1 ParticipationAddress.StreetAdd ress WHERE PRT(RXD).4.1 Participation.code = "OP" Dispensing Provider	o	0*	ST
	City Address ¹³¹	<nc:locationcityna me> <td>pmp:Prescription /pmp:Prescriber /pmp:PersonPrimaryConta ctInformation</td><td>CR</td><td>1N</td><td>nc:TextType</td><td>PRT(RXD).14.3 ParticipationAddress.City WHERE PRT(RXD).4.1</td><td>0</td><td>0*</td><td>ST</td></nc:locationcityna 	pmp:Prescription /pmp:Prescriber /pmp:PersonPrimaryConta ctInformation	CR	1N	nc:TextType	PRT(RXD).14.3 ParticipationAddress.City WHERE PRT(RXD).4.1	0	0*	ST

¹³⁰ Prescriber Street Address data is required to be provided in the response, on the condition that the data is available to be sent

¹³¹ Prescriber City Address data is required to be provided in the response, on the condition that the data is available to be sent

		me>	/nc:ContactEntity /nc:EntityOrganization /nc:OrganizationLocation /nc:LocationAddress /nc:StructuredAddress/				Participation.code = "OP" Dispensing Provider			
	State Code ¹³²	<nc:locationstateus PostalServiceCode> SPostalServiceCode></nc:locationstateus 	pmp:Prescription /pmp:Prescriber /pmp:PersonPrimaryConta ctInformation /nc:ContactEntity /nc:EntityOrganization /nc:OrganizationLocation /nc:LocationAddress /nc:StructuredAddress/	CR	1N		PRT(RXD).14.5 ParticipationAddress.State WHERE PRT(RXD).4.1 Participation.code = "OP" Dispensing Provider	0	0*	ST
	Zip Code ¹³³	<nc:locationposta ICode> Code></nc:locationposta 	pmp:Prescription /pmp:Prescriber /pmp:PersonPrimaryConta ctInformation /nc:ContactEntity /nc:EntityOrganization /nc:OrganizationLocation /nc:LocationAddress /nc:StructuredAddress/	CR	1N		PRT(RXD).14.6 ParticipationAddressZIP WHERE PRT(RXD).4.1 Participation.code = "OP" Dispensing Provider	0	0*	ST
Prescriber Identifier	DEA Number	<nc:identificationid> </nc:identificationid>	pmp:Prescription /pmp:Prescriber /pmp:DEANumberIdentifie r/	CR	0N	ype	PRT(RXD).5.1 ParticipationPerson.PersonIden tifier WHERE PRT(RXD).5.13 IdentifierTypeCode = "DEA" AND WHERE PRT(RXD).4.1 Participation.code = "OP" Ordering Provider	0	01	ST

¹³² Prescriber State Code data is required to be provided in the response, on the condition that the data is available to be sent

¹³³ Prescriber Zip Code data is required to be provided in the response, on the condition that the data is available to be sent

NPI Number	<nc:identificationid> </nc:identificationid>	pmp:Prescription /pmp:Prescriber /pmp:NPIIdentifier/	CR	0N	уре	PRT(RXD).5.1 ParticipationPerson.PersonIden tifier WHERE PRT(RXD).5.13 IdentifierTypeCode = "NPI" AND WHERE PRT(RXD).4.1 Participation.code = "OP" Ordering Provider	_	01	ST
State License Identifier	<nc:identificationid> </nc:identificationid>	pmp:Prescription /pmp:Prescriber /pmp:StateLicenseIdentifie r/	CR	0N	ype	PRT(RXD).5.1 ParticipationPerson.PersonIden tifier WHERE PRT(RXD).5.13 IdentifierTypeCode = "SL" AND WHERE PRT(RXD).4.1 Participation.code = "OP" Ordering Provider	o	01	ST
	<nc:identificationjur isdictionText> risdictionText></nc:identificationjur 	pmp:Prescription /pmp:Prescriber /pmp:StateLicenseldentifie r/	CR	0N		PRT(RXD).5.9.1 ParticipationPerson.AssingingA uthority WHERE PRT(RXD).5.13 IdentifierTypeCode = "SL" AND WHERE PRT(RXD).4.1 Participation.code = "OP" Ordering Provider	0	01	ST

2.3.6.1 HL7 v2.7 Coded Example

1492

1493

Table 16: HL7 V2.7 Transformation Details - Response Grammar

PSPANSA ARSP. NO.						
RSP^K31^RSP_K31	Response Grammar: Pharmacy Dispense Message	<u>Chapter</u>				
MSH	Message Header	2				
MSA	Message Acknowledgement	2				
[{ ERR }]	Error	2				
[{ SFT }]	Software	2				
QAK	Query Acknowledgement	5				
QPD	Query Parameter Definition	5				
RCP	Response Control Parameter	5				
{	RESPONSE begin					
[PATIENT begin					
PID	Patient Identification	3				
[ADDITIONAL_DEMOGRAPHICS begin					
PD1	Additional Demographics	3				
[{PRT}]	Participation (for Additional Demographics)	7				
]	ADDITIONAL_DEMOGRAPHICS end					
[{ NTE }]	Notes and Comments (for PID)	2				
[{ AL1 }]	Allergy Information	2				
[PATIENT_VISIT begin					
PV1	Patient Visit	3				
[PV2]	Patient Visit – Additional Info	3				
[{PRT}]	Participation (for Patient Visit)	7				
]	PATIENT_VISIT end					
1	PATIENT end					
{	ORDER begin					
ORC	Common Order	4				
[{	TIMING begin					
TQ1	Timing/Quantity	4				
[{ TQ2 }]	Timing/Quantity Order Sequence	4				
}]	TIMING end					
[ORDER_DETAIL begin					
RXO	Pharmacy /Treatment Order	4				

[ORDER_DETAIL_SUPPLEMENT begin	
{ NTE }	Notes and Comments (for RXO)	2
{ RXR }	Pharmacy/Treatment Route	4
[{	COMPONENT begin	
RXC	Pharmacy/Treatment Component	4
[{ NTE }]	Notes and Comments (for each RXC)	2
}]	COMPONENT end	
1	ORDER_DETAIL_SUPPLEMENT end	
]	ORDER_DETAIL end	
[{PRT}]	Participation (for Order)	7
[ENCODING begin	
RXE	Pharmacy/Treatment Encoded Order	4
[{PRT}]	Participation (for Order Encoding)	7
[{ NTE }]	Notes and Comments (for RXE)	2
{	TIMING_ENCODED begin	
TQ1	Timing/Quantity	4
[{ TQ2 }]	Timing/Quantity Order Sequence	4
}	TIMING_ENCODED end	
{ RXR }	Pharmacy/Treatment Route	4
[{ RXC }]	Pharmacy/Treatment Component	4
]	ENCODING end	
RXD	Pharmacy/Treatment Dispense	4
[{PRT}]	Participation (for Treatment Dispense)	7
[{ NTE }]	Notes and Comments (for RXD)	2
{ RXR }	Pharmacy/Treatment Route	4
[{ RXC }]	Pharmacy/Treatment Component	4
[{	OBSERVATION begin	
OBX	Results	7
[{PRT}]	Participation (for Observation)	7
[{ NTE }]	Notes and Comments (for OBX)	2
}]	OBSERVATION end	
[{ FT1 }]	Financial Transaction segment	6
}	ORDER end	
}	RESPONSE end	

15181519

1494 1495 The pharmacy system identifies the patient and locates the prescription dispensed for the query time period range 1496 via the PDMP query. The system returns the following RSP message: 1497 MSH|^&~\|PDMP||RiteWay||2004108211620-0500||RSP^K31^RSP K31|8858|P|2.7.1| 1498 1499 MSA|AA|ACK9901| QAK|123456789AA001|OK|ZS1^PDMP Dispense History^HL70471|1| 1500 1501 QPD ZSP^PDMP Dispense 1502 History^HL70471 | 123456789AA001 | Barton^Clara | Pharmacist | MD~VA | 201408211600-1503 0500||||BJ6125341^^^DEA||1234567890^^^NPI|Rite Way 1504 Pharmacy|VA|Fleming^Alexander|19810808|20140801|20140820|201408211620-0500| 1505 RCP|1|999^RD| 1506 PID|||123-45-6789^^^SS||Fleming^Alexander||19810808|M|||1000 ABC St^^Somewhere^VA^12345^^H| 1507 RXE||60951-0794^Oxymorphone^NDC|1||^TABLET|||||0||||||||||||||||20140802| 1508 1509 TQ1| 1510 RXR | ^Unspecified | RXD|1|60951-0794^Oxymorphone^NDC|20140802|10||^TABLET|987654321|0|||1|||20|^MG| 1511 1512 PRT||UC||DP^Dispensing Provider^HL70443||||Abcd Efgh Pharmacy^^^^DEA||||||2000 CDE St^^AnotherCity^VA^12345 | ^^^^^^^^123-456-7899 | 1513 1514 PRT||UC||OP^Ordering Provider^HL70443|CD3456781^Davis^Miles^^DEA|||||||3000 FGH 1515 Drive^^AnotherCity^VA^12345 1516 RXR|^Unspecified| 1517 FT1||||20140802||^CASH|60951-0794^Oxymorphone^NDC|>

S&I Framework Version 1.0

1520	2.3.6.2	HL	7 v2.7 Conformance Statements		
1521	A.	PMIX to HL7 v2.7.1 PDMP Query (RSP^K31^RSP_K31) response			
1522	1.	Each Response SHALL include the Response Date/Timestamp: QPD. QPD.19 ResponseDateTime			
1523 1524	2.	Each Response SHALL include the Prescription Response Date Range – Begin Date: QPD.17 DispenseDate.LL			
1525	3.	Each Response SHALL include the Prescription Response Date Range – End Date: QPD.18 DispenseDate.UI			
1526	4.	Each Response SHALL include the Request ID: QPD.2 QueryTag			
1527	5.	Responses returning positive results SHALL include patient information, such that			
1528		i.	Patient information SHALL include Patient First Name: PID.5.2 PatientName.GivenName		
1529		ii.	Patient information SHALL include Patient Last Name: PID 5.1 PatientName.FamilyName		
1530		iii.	Patient information SHALL include Patient Date of Birth PID.7 DateTimeOfBirth		
1531		iv.	Patient information SHALL include Patient Gender: PID.8 AdministrativeSex		
1532 1533		V.	Patient information SHALL include Patient Street Address: PID.11.1 PatientAddress.StreetAddress		
1534		vi.	Patient information SHALL include Patient City: PID.11.3 PatientAddress.City		
1535		vii.	Patient information SHALL include Patient State: PID.11.4 PatientAddress.State		
1536		viii.	Patient information SHALL include Patient Zip Code: PID.11.5 PatientAddress.ZIPCode		
1537	6.	Respon	ses returning positive results MAY have one or more instances of Prescription Information.		
1538		i.	Prescription information SHALL include the Date Written: RXE.32 OriginalOrderDateTime		
1539		ii.	Prescription information SHALL include the Date of the dispense: RXD.3 DateTimeDispensed		
1540		iii.	Prescription information SHALL include Prescription Number: RXD.7 PrescriptionNumber		
1541 1542		iv.	Prescription information SHALL include Dispense number: RXD.1 DispenseSubIDCounter. NOTE: HL7 convention is original fill is Fill #1		
1543		v.	Prescription information SHALL include Refills Remaining: RXD.8 NumberOfRefillsRemaining		
1544		vi.	Prescription information SHALL include Quantity Dispensed. RXD.4 QuantityDispensed		
1545 1546 1547		vii.	Prescription information SHOULD include Days Supply. NOTE: HL7 specifies Total Daily Dose. Days Supply can be calculated by Quantity Dispensed/Total Daily Dose (RXD.4 ActualDispenseAmount / RXD.12 TotalDailyDose)		
1548		viii.	Prescription information SHALL include Medication/product information, specifically		
1549 1550			 i. Medication/Product information SHOULD include a Drug Description (Drug Name): RXD.2.2 DispenseGiveCode.text 		

1551 1552		ii.	Medication/Product information SHALL include an Identifier AND Identifier Qualifier: RXD.2.3 DispenseGiveCode.Code AND RXD.2.3 DispenseGiveCode.CodingSystem
1553			Allowed Identifier Qualifiers are "NDC" and "RxNORM"
1554		iii.	If not included in the Drug Description, the Medication/Product information SHOULD
1555			include the Medication Strength: RXD.16 ActualStrength & RXD.17.2
1556			ActualStrengthUnit.text
1557		iv.	If not included in the Drug Description, the Medication/Product information SHOULD
1558			include the Dosage Form: RXD.6 ActualDosageForm
1559	ix.	Prescrip	tion information SHALL include Dispenser Information, specifically:
1560		i.	The Dispenser Information SHALL include the Dispenser's Organization Name: PRT.8
1561			ParticipationOrganization
1562		ii.	The Dispenser Information SHOULD include the Dispenser's Address: PRT.14
1563			ParticipationAddress
1564		iii.	The Dispenser Information SHOULD include the Dispenser's Phone: PRT.15
1565			ParticipationTelecommunicationAddress
1566		iv.	The Dispenser Information SHALL include at least one Dispenser Identifier: PRT.8
1567			ParticipationOrganization.
1568			1. The Dispenser Identifier MAY be an NCPDP Number.
1569			2. The Dispenser Identifier MAY be a DEA Number.
1570	х.	Prescrip	tion information SHALL include Prescriber information, specifically:
1571		i.	The Prescriber Information SHALL include the Prescriber's Name: PRT.5
1572			ParticipantName
1573		ii.	The Prescriber Information SHOULD include the Prescriber's Address: PRT.14
1574			ParticipationAddress
1575		iii.	The Prescriber Information SHALL include at least one Prescriber Identifier. PRT.8
1576			1. The Dispenser Identifier MAY be an NPI Number.
1577			2. The Dispenser Identifier MAY be a DEA Number.
1578			3. The Dispenser Identifier MAY be a State License Number.
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2.4 Transport and Security

This Implementation Guide (IG) describes how standards may be implemented to meet the requirements of the PDMP/HITI S&I Initiative Use Case. The <u>Use Case document</u> contains a Security and Privacy Appendix, which outlines some of the policy considerations and implementation challenges faced by those organizations who may wish to pilot this IG. As described in the Use Case Security and Privacy Appendix, there are unique privacy and security risks inherent to the exchange of sensitive information from a PDMP to a Health IT system, including any intermediaries that may transport the information between the systems. The appropriate level of security is always a risk-based decision by implementers. For this initiative, it is imperative that pilots and reference implementations adequately address both user authentication and patient matching so that the right requester receives the right information about the right patient, without violating any existing security or privacy policy.

There is variability in the policies governing how different state PDMPs authorize and provide access to the PDMP data for the end users as well as for any intermediaries or third parties which may facilitate access to the PDMP data by an authorized user. Given this variability, the initiative has not specified any additional constraints or requirements for the security and privacy of the PDMP data beyond those already required through Federal law, state law, or other local or jurisdictional policy. Because no additional constraints are being put on the security and privacy protocols or standards that are necessary for the implementation guide to be piloted, pilot participants are able to select the security and privacy controls, standards, and procedures appropriate for their implementation, while adhering to requirements and regulations such as HIPAA, other Federal laws such as 42 CFR Part 2, state laws, and decisions based on local policy and risk assessment.

Considerations in regard to whether or not a third party (such as a Health Information Exchange) may have access to the PDMP data are important. In some cases, state law may prohibit access by anyone other than the original authorized requestor, where as in other cases third parties might be considered authorized users with respect to their particular role in the workflow. For instances when the intermediary is allowed by policy or regulation to access the PDMP data, a standards translation can be implemented by the third party, using portions of this IG as the basis for the mapping of data elements between standards. If, however, access to the PDMP data is not permitted by the intermediary, security considerations will need to address how the intermediary can route the PDMP data without requiring access to the content by employing techniques such as encryption for wrapping the data with an envelope so only the outer layer is usable by the intermediary.

Potential pilots are strongly encouraged to review the following resources when considering security and privacy related options:

- 1) <u>Congressional Research Service Report</u> dated March 24, 2014. This report cites "Security and Access" as one of the four areas central to the success of PDMPs and data sharing. The report specifically calls out key security and privacy considerations, including: Authorized users, authentication, audit trails, Internet access, vendor security, reporting, privacy, confidentiality, and the use of data.
- 2) Prescription Drug Monitoring Program Interoperability Standards; A Report To Congress prepared by the Office of the Assistant Secretary for Health (OASH), The Office of the National Coordinator for Health Information Technology (ONC), The Substance Abuse and Mental Health Services Administration (SAMHSA), and The Centers for Disease Control and Prevention (CDC). This report discusses the new privacy and security challenges PDMP interoperability poses. It describes how the need to accurately identify and verify the credentials of those accessing the PDMP data across state lines requires appropriately defined and mutually agreeable administrative and technical safeguards to ensure patient health information is protected when it is shared outside of a state's PDMP.

As organizations form pilot ecosystems for testing the standards and interoperability aspects of this IG, it is hoped that lessons learned from the pilots will include details on how security and privacy challenges were addressed, and details on the specific technical methods for protecting the confidentiality, integrity and availability of PDMP data while at rest and in transit, so they may collectively be considered for inclusion into future editions of this IG.

3 Gap Resolution Plan

3.1 Request

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Table 17: Gaps Mitigation for Request Data Elements

Table 17: Gaps Mitigation for Request Data Elements					
Standard	Data Element Gaps Identified	Mitigation			
ASAP Web Services	 Requestor Requestor Role Disclosing States Request ID DEA Number National Provider ID State License Number State Issued ID Request Date/Timestamp 	ASAP to add required elements to next version of ASAP Web Services standard (transport layer envelope)			
NCPDP SCRIPT	Requestor Role	New data elements to be suggested enhancements to SCRIPT Medication History transaction in a future version of NCPDP SCRIPT. Will depend on outcome of industry mapping to Healthcare Provider Taxonomy Code Set. See Open Items section.			
HL7 V2.7	 Requestor Requestor Role Disclosing States Requestor DEA Number Requestor National Provider ID Requestor State License Number Requestor State Issued ID Requesting Facility DEA Number Requesting Facility NCPDP Number Requesting Facility NPI Requesting Facility Name State Code of the Facility Request Date/Timestamp 	Mitigation: Proposed modifications as HL7V2.7 fields in QBP segments There are a number of concepts, relating primarily to the query request/routing, that are not directly supported in HL7 v2.7.1. These concepts have been added to the QPD segment as query parameters. The QPD segment, beyond QPD.2, is a user-defined set of fields which are not required to have a corresponding "standard field definition". As such, these concepts do not require endorsement by HL7 or inclusion in HL7 v2.x. Implementers will need to support these concepts, but they are essential to the data exchange described in this Implementation Guide and are not unique to the HL7 expression.			

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3.2 Response

Table 18: Gap Mitigation for Response Data Elements

Standard	Data Element Gaps Identified	Mitigation
ASAP Web Services	 Refills Authorized <u>Product ID</u> Product ID Qualifier 	ASAP to add required elements to next version of ASAP Web Services standard
NCPDP SCRIPT	 Patient ID (State of License, Passport, Military, Tribal) 	New data elements to be suggested enhancements to SCRIPT Medication History transaction in a future version of NCPDP SCRIPT
	Partial Fill Indicator*Method of Payment**	*NCPDP participants are concerned with use of Partial Fill Indicator field misunderstanding that could occur and will discuss further if it would be added to a future version of the NCPDP SCRIPT Medication History transaction.
		**Pilot solution for Method of Payment in Conformance Section. Will be discussed as suggested enhancement to Medication History transaction in a future version of NCPDP SCRIPT.
HL7 V2.7	Response Date/TimestampDisclosing State(s)	Mitigation: Proposed modifications as new HL7V2.7 Z Segment RSP message elements

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3.3 Open Items

This section serves to capture open issues of interest to the PDMP community that are not addressed in this IG.

Table 19: Open Items

Table 13. Open tems		
Open Issue	Reported by	Reported Date
Roles and Role ID: Carl Flansbaum is developing a preliminary value	Community	
set; NCPDP is analyzing the set for mapping to the national Health		
Care Provider Taxonomy code set.		
Mothed of Dayment. The industry needs to work together to	NCPDP MC PDMP	9/2/2014
Method of Payment - The industry needs to work together to	White Paper Task	
synthesize the method of payment submitted by the industry. Until	Group	
then payment type will be returned in the way it is reported.	NCDDD MC DDDD	0/0/2014
Partial Fill Indicator - NCPDP participants are concerned with use of	NCPDP MC PDPD	9/8/2014
this field misunderstanding that could occur and will discuss further	PDMD White Paper	
if it would be added to a future version of the NCPDP SCRIPT	Task Group	
Medication History transaction.		
Value Sets provided in the Appendix should be vetted by the	Community	9/7/2014
community and updated according to pilot outcomes.		
Drug Name, Drug Strength and Dosage Form. These may not be	Donna Peterson and	9/9/2014
reported by Pharmacies or are reported differently (e.g. the three	Community	
fields are combined or NDC codes used).		
Response messages for no match return or a match with no hits on	Community	9/2/2014;
PDMP data where no match can be found. This needs to be worked		9/9/2014
out if there is to be standard language that is commonly understood		
by the requestor.		

4 Appendices

4.1 Appendix A: Acronyms and Glossary

1642 Acronyms

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Table 20: List of Acronyms

Terms/Acronyms	Working Definition	
API	Application Programming Interface	
ASAP	American Society for Automation in Pharmacy	
DEA	Drug Enforcement Administration	
EHR	Electronic Health Record	
FDA	Food and Drug Administration	
HITECH	Health Information Technology for Economic and Clinical Health Act of 2009	
HL7	Health Level Seven International	
NDC	National Drug Code	
NCPDP	National Council for Prescription Drug Programs	
NIEM	National Information Exchange Model	
NPPES	National Plan and Provider Enumeration System developed by CMS	
ONC	Office of the National Coordinator for Health Information Technology	
PDMP	Prescription Drug Monitoring Program	
PMIX	Prescription Monitoring Information eXchange	
SAMHSA	Substance Abuse and Mental Health Services Administration	
S&I	Standards and Interoperability	
SDO	Standards Development Organization	
XML	Extensible Markup Language (XML) is a markup language that defines a set of rules	
	for encoding documents in a format that is both human-readable and machine-	
	readable. XML is a structured language for describing information being sent	
	electronically from one entity to another.	

1644 Glossary

Table 21: Glossary of Terms

Term	Definition
Container	Message structure/format that contains the payload and carries the message.
Controlled Substances	Drug, substance, or immediate precursor in Schedules II through V or a precursor required to be reported to a PDMP by law or regulation.
Entity	An "entity" is an organization or a person that fulfills a role, e.g., Pharmacy, PDMP, Provider.
Federal Agencies	Organizations within the federal government that deliver, regulate or provide funding for health and health care.
Health Insurance Portability and Accountability Act (HIPAA)	Health Insurance Portability and Accountability Act (1996): act that protects health insurance coverage for workers and their families when they change or lose their jobs; The basic privacy policy relating an individual's protected health information, providers and payers.

Term	Definition
Healthcare Information Exchange (HIE) System Vendors	An organization which develops, sells, and sometimes installs, an HIE for customer organizations.
Health IT System	An information system that is used by a Healthcare Professional to collect and store patient information including demographics, medicine, etc. (i.e. EHR, Hospital Information System, Pharmacy System).
Healthcare Payer/Purchaser	A third-party entity that establishes indications and limitations of coverage for payments or underwrites coverage for healthcare expense.
Healthcare Professionals (Also referred to as Individual Providers)	A medical practitioner or provider of care (or someone legally authorized to act on their behalf by relevant state laws, rules or regulations) who has legal authorization to access prescription drug data for patients at the point of care to make informed clinical decisions and appropriate treatment recommendations. This may include: prescribers, dispensers, pharmacists, nurses, etc.
Hub	A highly secure communications exchange platform that facilitates transmission of PDMP data to authorized requestors, allowing for in state and, where allowed, out of state queries on a person of interest.
Intermediary	An entity that accepts an electronic transaction from another organization electronically routes the transaction to a receiving entity. A switch/intermediary may perform value added services including detailed editing/messaging of input/output of data for validity and accuracy and translating data from one format to another. An intermediary may act as a consolidator of PDMP data exchange between disparate systems (which may include EHRs, Pharmacy IT systems, and state PDMPs) to provide seamless integration capabilities
Message Content (Body)	Information that is sent within the container that includes encrypted data regarding person of interest, provider, dispenser, and prescription data.
Metadata	A set of data that describes and gives information about other data. Structured data about data. Metadata includes data associated with either an information system or an information object for purposes of description, administration, legal requirements, technical functionality, use and usage, and preservation
Patient Advocates	A person who helps a patient work with others who have an effect on the patient's health, including doctors, insurance companies, employers, case managers, and lawyers. A patient advocate helps resolve issues about health care, medical bills, and job discrimination related to a patient's medical condition.
Packaging	The assembly of the query or response in a manner that can be transported and consumed by the receiving entity.
Patients	Members of the public who require healthcare services from ambulatory, emergency department, physician's office, and/or a public health agency/department.
PDMP Data	PDMP data are prescriptions or other information for controlled substances and drugs of concern that PMPs are authorized to monitor.
PHI	Protected Health Information, as defined in 45 CFR 160.103, where 'CFR' means 'Code of Federal Regulations', and, as defined, is referenced in Section 13400 of Subtitle D ('Privacy') of the HITECH Act.
Privacy and Security Experts	Professional in designing, implementing, and administering comprehensive privacy and security protection programs in all types of healthcare organizations, aligned with regulation and healthcare reform.

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Term	Definition		
Provider	A provider describes any medical personnel that may come in contact with the patient, handle a patient's EHR Form, or provide a patient with medical care. This includes, but is not limited to personnel that handle transitional care or direct care. The following are examples of providers: doctors, nurse practitioners, nurses, unit clerks, clinical researchers, medical residents, EMTs, emergency care personnel, medical aids, etc.		
Provider Organizations	Organizations that are engaged in or support the delivery of healthcare. These organizations include but are not limited to hospitals, ambulatory centers, provider practices, integrated delivery systems, preferred provider organizations, health maintenance organizations, Accountable Care Organizations (ACOs), academic health systems, and professional societies.		
Routing Information	Section of message that provides necessary to/from addressing and routing information. This section may also include metadata about what is inside the message content.		
RxNorm	RxNorm provides normalized names for clinical drugs and links its names to many of the drug vocabularies commonly used in pharmacy management and drug interaction software,. By providing links between these vocabularies, RxNorm can mediate messages between systems not using the same software and vocabulary.		
S&I	Standards and Interoperability Framework is an open forum sponsored by ONC's Office of Standards & Interoperability (OSI) to advance harmonization and implementation of specifications that support national healthcare priorities. SDC is an S&I Framework initiative.		
Standards Organizations	Organizations whose purpose is to define, harmonize and integrate standards that will meet clinical and business needs for sharing information among organizations and for system interoperability. Includes Standards Development Organizations (SDOs) as accredited by the American National Standards Institute (ANSI), as well as consortia and other standards bodies.		
Transformation	Data transformation allows the facilitation of data from one source to another by converting it, usually on an intermediate server, from one format into another to fit the operational needs of the end source		
Translation	Enables systems that use different standards to understand one another.		
User Stories	Any potential scenario that involves an End user accessing the system.		
Vocabulary & Terminology Owners	Organization whose purpose it is to define, harmonize, and maintain clinical terminologies and vocabulary that will meet information sharing needs to drive towards system interoperability and standardization.		
XML Schema	XML Schema defines the rules and constraints for the characteristics of the data, such as structure, relationships, allowable values, and data types. It defines the vocabulary (elements and attributes), the content model (structure, element nesting, and text content), and data types (value constraints) of a class of XML documents. Note: When written with a capital S, the term refers specifically to the XML Schema Definition (XSD) language developed by the W3C. However, when written with a lowercase s, the meaning is more generic, referring to any of several schema languages for use with XML. In both cases, an XML Schema is used to validate XML instances, to verify that the instances conform to the model that the schema describes.		

4.2 Appendix B: Value Sets

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The table provided below is a preliminary set of free text or code values applicable to the data elements described in the implementation approach section. The list is intended to be vetted through the PDMP, EHR, and Pharmacy communities during pilot programs and updated accordingly.

Standard	Data Element	Value Set
PMIX (to be leveraged across all standards	Requestor Role	101
		102
specified in		103
PDMP&HITI IG)		104
		105
		106
		107
		108
		109
		110
		111
		112
		113
		114
		115
		116
		117
		201
		202
		203
		204
HL7 V2.7	Requestor Role	HL70912
NCPDP SCRIPT	Requestor Role	Healthcare Provider Taxonomy Code Set
10.6		See list of specialty taxonomy codes <u>here</u>
		*Reference taxonomy to PMIX master list mapping
ASAP Web	Gender ¹	М
Services V1.1	(Patient)	F

NCPDP SCRIPT V10.6		U		
HL7 V2.7	Gender (Patient)	HL70001		
ASAP Web Services V1.1	Product ID	See RxNorm Code List <u>here</u>		
Services V1.1		See NDC Directory <u>here</u>		
HL7 V2.7				
NCPDP SCRIPT V10.6				
ASAP Web	Product ID Qualifier	RxNorm		
Services V1.1		NDC		
HL7 V2.7				
NCPDP SCRIPT V10.6				
NCPDP SCRIPT V10.6	Dosage Form	See NCI Thesaurus Subsets files <u>here</u>		
NCPDP SCRIPT V10.6	Drug Strength	See NCI Thesauru	s Subsets files <u>here</u>	
NCPDP SCRIPT V10.6	Drug Quantity Qualifier	See NCI Thesauru	s Subsets files <u>here</u>	
ASAP Web	State	See USPS State Code List <u>here</u>		
Services V1.1	(Disclosing States, State of	AL	Alabama	
HL7 V2.7	License, State Code of Requesting Facility,	AK	Alaska	
1117 V2.7	Patient/Prescriber/Dispenser Organization State Code)	AR	Arkansas	
NCPDP SCRIPT	organization otate code,	AZ	Arizona	
V10.6		CA	California	
		СО	Colorado	
		СТ	Connecticut	
		DE	Delaware	
		DC	District of Columbia	
		FL	Florida	
		GA	Georgia	

ні	Hawaii
ID	Idaho
IL	Illinois
IN	Indiana
IA	lowa
KS	Kansas
KY	Kentucky
LA	Louisiana
ME	Maine
MD	Maryland
MA	Massachusetts
MI	Michigan
MN	Minnesota
MS	Mississippi
МО	Missouri
MT	Montana
NE	Nebraska
NV	Nevada
NH	New Hampshire
NJ	New Jersey
NM	New Mexico
NY	New York
NC	North Carolina
ND	North Dakota
ОН	Ohio
ОК	Oklahoma
OR	Oregon
PA	Pennsylvania
RI	Rhode Island
SC	South Carolina
SD	South Dakota
TN	Tennessee

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		UT	Utah	
		VT	Vermont	
		VA	Virginia	
		WA	Washingto	on
		WV	West Virg	inia
		WI	Wisconsin	ı
		WY	Wyoming	
ASAP Web Services V1.1	Zip Code	See USPS List of Zip codes <u>here</u>		<u>ere</u>
HL7 V2.7				
NCPDP SCRIPT V10.6				
ASAP Web	Method of Payment	01		Private Pay
Services V1.1		02		Medicaid
		03		Medicare
		04		Commercial Insurance
		05		Military Installations and VA
		06		Worker's Compensation
		07		Indian Nations
		99		Other
NCPDP SCRIPT	Method of Payment	01		Private Pay
V10/6		04		Commercial Insurance
ASAP Web	Partial Fill Indicator	0		
Services V1.1		1		
HL7 V2.7	Patient ID – State of License	HL70363		
HL7 V2.7	Dosage Form	Local		
HL7 V2.7	Partial Fill Indicator	HL70484		
HL7 V2.7	Method of Payment	HL70017		
HL7 V2.7	*Patient ID Qualifier ¹³⁴	HL70203		

 $^{^{134}}$ Patient ID Qualifier has been deemed as an optional data element and is not required in this IG

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4.3 Appendix C: Requestor Role to Healthcare Provider Taxonomy Mapping

The following table serves as a preliminary mapping between the PMIX Requestor Role value codes and the Healthcare Provider Taxonomy Code Set maintained by the Washington Publishing Company. This mapping can be leveraged for use in NCPDP SCRIPT implementations for PDMP integration, where more granular role information is provided by the SCRIPT "specialty code" data element.

PDMP/PMIX Requestor Role	PDMP/PMIX Role ID	Healthcare Provider Taxonomy Code Set - Provider Type	Healthcare Provider Taxonomy Code	
		Prescribers		
Dentist	101	Dentist	1223*	
Medical Intern under supervising DEA#	102			
Medical Intern with independent DEA#	103			
Medical Resident under supervising DEA#	104			
Medical Resident with independent DEA#	105			
Naturopathic Physician	106	Naturopath	175F00000X	
Nurse Practitioner	107	Nurse Practitioner	363L*	
Optometrist	108	Optometrist	152W*	
Other Non- Prescriber	109			
Other Prescriber	110			
Pharmacist with Prescriptive Authority	111	Pharmacist Clinician (PhC)/ Clinical Pharmacy Specialist	1835P0018X	
Physician	112	Physicians (multiple entries)	207* 208* 213E*	
Physician's Assistant	113	Physician Assistant	363A*	

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Prescriber's	114		
Delegate –			
licensed			
Prescriber's	115		
Delegate –			
unlicensed			
Psychologist	116	Psychologist	103T*
with			
Prescriptive			
Authority			
Veterinarian	117	Veterinarian	174M00000X
		Dispensers	
Pharmacist	201	Pharmacist	1835*
Pharmacy	202	Pharmacy	3336*
Pharmacist	203	Pharmacy Technician	183700000X
Delegate –			
licensed			
Pharmacist	204		
Delegate –			
unlicensed			

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4.4 Appendix D: HL7 Data Types

HL7 data types define the kind of data that can be included in a field, and are used throughout the HL7 message structure. Examples would be a string, formatted text, timestamp, address, or coded element. Each data type may contain additional data types that are referenced as components or subcomponents. Complex data types use other data types to define the kind of data they can contain.

Below is a list of HL7 data types:

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DATA TYPE CATEGORY/ DATA TYPE	DATA TYPE NAME
Alphanumeric	
ST	String
TX	Text data
FT	Formatted text
Numerical	
cq	Composite quantity with units
MO	Money
NM	Numeric
SI	Sequence <u>ID</u>
SN	Structured numeric
Identifier	
ID	Coded values for HL7 tables
IS	Coded values for user-defined tables
HD	Hierarchic designator
EI	Entity identifier
RP	Reference pointer
PL	Person location
PT	Processing type
Date/Time	
DT	Date
TM	Time
TS	Time stamp
Code Values	
CE	Coded element
CF	Coded element with formatted values
CK	Composite ID with check digit

DATA TYPE CATEGORY/ DATA TYPE	DATA TYPE NAME
CN	Composite ID number and name
CX	Extended composite ID with check digit
XCN	Extended composite ID number and name
Generic	
CM	Composite
Demographics	
AD	Address
PN	Person name
TN	Telephone number
XAD	Extended address
XPN	Extended person name
XON	Extended composite name and ID number for organizations
XTN	Extended telecommunications number
Specialty/Chapter specific	
CD	Channel definition
MA	Multiplexed array
NA	Numeric array
ED	Encapsulated data
СР	Composite price
FC	Financial class
Extended Queries	
QSC	Query selection criteria
QIP	Query input parameter list
RCD	Row column definition
Master Files	
DLN	Driver's license number
JCC	Job code/class
VH	Visiting hours
Medical Records/Info Mgmt	
PPN	Performing person time stamp
Time Series	

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DATA TYPE CATEGORY/ DATA TYPE	DATA TYPE NAME			
DR	Date/time range			
RI	Repeat interval			
SCV	Scheduling class value pair			
TQ	Timing/quantity			

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A data type may reference one or more additional data types as components or subcomponents. For example, the CK (composite ID with check digit) data type can be broken down into four components, each referencing a specific data type. One of these components (HD) also references three other data types as subcomponents.

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1675 CK data type:

SEQ	DATA TYPE	COMPONENT NAME					
1	NM	ID Number					
2	ST	Check Digit					
3	ID	Code Identifying the Check Digit Scheme Employed					
4	HD	Assigning Authority					

1676 HD data type:

SEQ	DATA TYPE	COMPONENT NAME				
1	IS	Namespace ID				
2	ST	Universal ID				
3	ID	Universal ID Type				

4.5 Appendix E: Base Data Type Structure Conversions

The transformation details section of this IG (section 2.3) drills down to mostly simple string data types, which do not require transforms. However, there are a few transformations that are necessary – date and date/time data types. These are illustrated in the following tables.

Data Type Conversions: PMIX and NCPDP SCRIPT

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PMIX Data Type	Simple Data Structur e	Data Format	Conversion to SCRIPT Data Type	NCPDP SCRIPT Data Type	Simpl e Data Struc ture	Data Format	Conversion to PMIX Data Type
nc:PersonNameTe xtType	xsd:stri ng			AN35			Constrained to alphanumeric 35.
niem-xsd:date	Date	YYYY- MM-DD	=CONCATENATE(LEFT(INPUT,4) , MID(INPUT,6,2),RIGHT(INPUT, 2))	DateTim e (xs:date or xs:dateTi me)	Date and Time	CCYYMMDDh hmmssmss	=CONCATENATE(LEFT(INP UT,4), "-",MID(INPUT, 5,2),"-", MID(INPUT,7,2))
niem-xsd:time	Time	hh:mm: ss.sss.	=CONCATENATE(LEFT(INPUT,2),MID(INPUT,4,2),MID(INPUT,7,2),RIGHT(INPUT,3))	DateTim e (xs:date or xs:dateTi me)	Date and Time	CCYYMMDDh hmmssmss	=CONCATENATE(MID(INP UT,9,2), ":",MID(INPUT, 11,2),":", MID(INPUT,13,2), ":",RIGHT(INPUT,3))
nc:OrganizationTy pe	xsd:stri ng			AN35			Constrained to alphanumeric 35.
usps:USStateCode	usps:US			string			Constrained to two digit

PMIX Data Type	Simple Data Structur e	Data Format	Conversion to SCRIPT Data Type	NCPDP SCRIPT Data Type	Simpl e Data Struc ture	Data Format	Conversion to PMIX Data Type
Туре	StateCo deSimpl eType						state and territory codes. http://www.loc.gov/stand ards/iso639- 2/ascii 8bits.html - downloadable text file of ISO 639-3 Codes for the Representation of Names of Languages (Also available at http://en.wikipedia.org/wi ki/List of ISO 639- 1_codes)
nc:TextType				AN35			Constrained to alphanumeric 35.
nc:DateType	xsd:dat eTime	CCYY- MM- DDThh: mm:ss. sss	=CONCATENATE(LEFT(INPUT,4),MID(INPUT,6,2),MID(INPUT,9,2),MID(INPUT,12,2),MID(INPUT,15,2),MID(INPUT,18,2),RIGHT(INPUT,3))	DateTim e (xs:date or xs:dateTi me)		CCYYMMDDh hmmssmss	=CONCATENATE(LEFT(INP UT,4), "-", MID(INPUT,5,2), "-", MID(INPUT,7,2), "T", MID(INPUT,9,2), ":",MID(INPUT,11,2), ":",MID(INPUT,13,2), ":",RIGHT(INPUT,3))
niem-xsd:decimal				string			
niem- xsd:nonNegativeIn teger				n2			Constrained to numeric 2 digits (in FillNumber).

1685 Data Type Conversions: PMIX and HL7 V2.7

PMIX Data Type	Simple Data Structur e	Data Format	Conversion to HL7 V2.7 Data Type	HL7 Data Type	Simpl e Data Struc ture	Data Format	Conversion to PMIX Data Type
niem-xsd:date	Date	YYYY- MM-DD	=MID([pmixdate],1,4)&MID([pmixdate],6,2)&MID([pmixdate],9,2)	DT	Date	YYYY[MM[DD]]	=MID([hl7date],1,4)&"- "&MID([hl7date],5,2)&"- "&MID([hl7date],7,2)
niem-xsd:date niem-xsd:time	Date	YYYY- MM-DD hh:mm: ss.sss.	=MID(<pmix date>,1,4)&MID(<pmix date>,6,2)&MID(<pmix date>,9,2)&MID(<pmix time>,1,2)&MID(<pmix datetime>,4,2)&MID(B16,7,2)</pmix </pmix </pmix </pmix </pmix 	DTM	Date + Time Date +	YYYY[MM[DD[HH[MM[SS[.S[S [S[S]]]]]]]]][+/- ZZZZ] YYYY[MM[DD[HH[MM[SS[.S[S	=MID(<hi7 datetime>,1,4)&"- "&MID(<hi7 datetime>,5,2)&"- "&MID(<hi7 datetime>,7,2) =MID(<hi7 datetime>,9,2)&":"&MID(</hi7 </hi7 </hi7 </hi7
					Time	[S[S]]]]]]]][+/- zzzz]	<hi7 datetime>,11,2)&":"&MID (<hi7 datetime="">,13,2)</hi7></hi7

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4.6 Appendix F: References

The initiatives general references can be found <u>here</u>. The following is a list of useful artifacts for the community and sources that have contributed to the creation of this Implementation Guide:

- Previous PDMP work efforts (January 2013-March 2013) can be found here.
- All Harmonization S&I artifacts that contributed to the Solution Plan and consented approach for this Implementation Guide can be found here.
- <u>Project Charter</u>: The page describes the overall project charter including the challenge statement, scope, deliverables and timelines.
- PDMP & HITI Terminology: The page defines the terminology used for this initiative.
- <u>Initiative Parking Lot</u>: This page highlights any items identified as parking lot items at any stage in this initiative.
- <u>PDMP & HITI Consented Use Case:</u> This document describes the functional & business requirements, as well as scope of the initiative, as consented by the S&I Framework PDMP & HITI community.
- <u>PMIX IEPD</u>: This document is the PMIX Information Exchange Package Documentation used in as the base standard in this Implementation Guide.
- NCPDP SCRIPT v10.6: This document is the Implementation Guide for NCPDP SCRIPT standard Version 2014041, which is used as a standard of translation in this PDMP & HITI Implementation Guide.
- ASAP Web Services v1.1: This document is the Implementation Guide for ASAP Web Services Version 1 Release 1, used as a standard of translation in this PDMP & HITI Implementation Guide.
- ASAP 4.2 Pharmacy Reporting Standard Submitter's Guide: This document is the standard for ASAP pharmacy reporting.
- <u>HL7 V2.x ADT Orders Product Brief</u>: This document contains the HL7 V2.7 standard used in this PDMP & HITI Implementation Guide as one of the standards of translation.
- <u>HIPAA Healthcare Provider Taxonomy</u>: This document lists all taxonomy codes as regulated by CMS for all Provider roles.

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