## Revision Record

<table>
<thead>
<tr>
<th>Date</th>
<th>Revision</th>
<th>Change Reference</th>
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<tbody>
<tr>
<td>09/28/2018</td>
<td>2.3</td>
<td>Initial Published Version</td>
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<tr>
<td>10/11/2018</td>
<td>2.4</td>
<td>Revised exception code table</td>
</tr>
<tr>
<td>12/19/2018</td>
<td>2.6</td>
<td>Revised response messages; ClinicName will specify prescriber name in all response</td>
</tr>
<tr>
<td>1/10/2019</td>
<td>2.7</td>
<td>Revised audit message and removed CURL statements</td>
</tr>
<tr>
<td>1/22/2019</td>
<td>2.8</td>
<td>Revised HTTP header specifications</td>
</tr>
<tr>
<td>1/24/2019</td>
<td>2.9</td>
<td>Revised CheckEntityStatus test sample and updated all XML sample fonts to emphasize case sensitivity. Published Version. Document posted to public website: 02/12/2019</td>
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<tr>
<td>2/13/2019</td>
<td>2.10</td>
<td>Revised SearchPatient, GetPatientActivityReport, and AuditPatientActivityReport test samples, updated description for DescriptionCode 370, updated web service name to CheckEntityStatus in section 2.2</td>
</tr>
<tr>
<td>2/26/2019</td>
<td>2.11</td>
<td>Split the Requesting User in the section 5.1.1 Request Mapping of CURES Data to NCPDP Format into Prescriber and Pharmacy, and added Pharmacist state license number mapping</td>
</tr>
</tbody>
</table>
2. Updated SearchPatient request/response mapping for single patient match.  
4. Updated sample request XMLs to remove <SecondaryIdentification> from <Receiver><SecondaryIdentification></Receiver>  
5. Updated <note> in the sample PAR response.  
6. Updated multiple results (pick list) response sample to include the response format provided by IEWS and an example of the converted response (for readability).  
8. Updated AuditPatientActivityReport to include a sample response.  
10. Updated CheckUserStatus (section 10) and CheckEntityStatus (section 11) descriptions. Published Version. Document posted to public website: 03/27/2019 |
| 5/20/2019     | 2.13     | 1. RX History Response CodeListQualifier updated to = 87  
2. Removed description codes 320, 321, and 340 as they are no longer in use. Published Version. Document posted to public website: 05/29/2019 |
| 9/26/2019     | 2.14     | 1. Non-technical updates  
2. Identified search fields that run as exact match regardless of search mode  
3. Provided sample header  
4. Provided format on DOB, zip, and state Published Version. Document posted to public website: 10/04/2019 |
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1 INTRODUCTION

1.1 PURPOSE
The purpose of this Implementation Guide is to provide a comprehensive set of instructions to allow integration of Controlled Substance Utilization Review and Evaluation System (CURES) information with qualified Health Information Technology (HIT) systems via the CURES Information Exchange Web service (IEWS).

2 SYSTEM OVERVIEW

2.1 SYSTEM BACKGROUND
The Controlled Substance Utilization Review and Evaluation System (CURES) is a database containing information about Schedule II, III, and IV controlled substances dispensed to patients, as reported by the dispensing pharmacy, clinic, or other dispenser pursuant to Health and Safety Code section 11165(d) or by prescribers, pursuant to Health and Safety Code section 11190(c) ("CURES data"). The CURES Program grants authorized health care practitioners and pharmacists access to query the CURES database to assist them in their efforts to ensure appropriate prescribing, ordering, administering, furnishing, and dispensing of controlled substances.

In accordance with Health and Safety Code 11165.1(a)(1)(F), the California Department of Justice (DOJ) has established a method of system integration whereby approved health care practitioners and pharmacists may use a qualified HIT system to access information in the CURES database. As a prerequisite to system integration, each entity that operates a HIT system must enter into a memorandum of understanding with the DOJ addressing the technical specifications of the system to ensure the security of CURES data in the CURES database and the secure transfer of CURES data from the CURES database.

2.2 DEFINITIONS, ACRONYMS, AND ABBREVIATIONS
The Definitions, Acronyms, and Abbreviations section lists terms used in the document.

<table>
<thead>
<tr>
<th>TERM/ABBREVIATION</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>API</td>
<td>Application Program Interface</td>
</tr>
</tbody>
</table>
### 2.3 APPLICATION OVERVIEW

The CURES Program provides systems integration with the HIT community through RESTful web services. The following web service end points are available:

<table>
<thead>
<tr>
<th>WEB SERVICE ENDPOINT</th>
<th>WEB SERVICE DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SearchPatient</td>
<td>Searches for a patient for a given timeframe. Searches can be executed for up to a 12-month period using partial or exact match modes.</td>
</tr>
<tr>
<td>GetPatientActivityReport</td>
<td>For HIT system that can support a picklist: the Patient Account Number(s) from the SearchPatient (RxHistoryResponse message) is used to obtain a patient activity report (PAR) via this endpoint.</td>
</tr>
<tr>
<td>AuditPatientActivityReport</td>
<td>Notification confirming that the authorized health care practitioner or pharmacist</td>
</tr>
</tbody>
</table>

### Abbreviations and Descriptions

<table>
<thead>
<tr>
<th>TERM/ABBREVIATION</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURES</td>
<td>Controlled Substance Utilization Review and Evaluation System</td>
</tr>
<tr>
<td>DEA</td>
<td>Drug Enforcement Administration</td>
</tr>
<tr>
<td>DOB</td>
<td>Date of Birth</td>
</tr>
<tr>
<td>DOJ</td>
<td>Department of Justice</td>
</tr>
<tr>
<td>HIT</td>
<td>Health Information Technology</td>
</tr>
<tr>
<td>HTTP</td>
<td>Hypertext Transfer Protocol</td>
</tr>
<tr>
<td>HTTPS</td>
<td>HTTPS is not, strictly, a separate protocol, as the data is still transferred using HTTP; however, instead of using plain text socket communication, the session data is encrypted using a version of the Secure Socket Layer (SSL)/Transport Layer Security (TLS) protocols, thus ensuring reasonable protection more than the HTTP</td>
</tr>
<tr>
<td>IP</td>
<td>Internet Protocol</td>
</tr>
<tr>
<td>MOU</td>
<td>Memorandum of Understanding</td>
</tr>
<tr>
<td>NCPDP</td>
<td>National Council for Prescription Drug Programs</td>
</tr>
<tr>
<td>PAR</td>
<td>Patient Activity Report</td>
</tr>
<tr>
<td>PDMP</td>
<td>Prescription Drug Monitoring Program</td>
</tr>
<tr>
<td>PKI</td>
<td>Public Key Infrastructure</td>
</tr>
<tr>
<td>REST</td>
<td>Representational state transfer</td>
</tr>
<tr>
<td>SSL</td>
<td>Secure Socket Layer</td>
</tr>
<tr>
<td>TLS</td>
<td>Transport Layer Security</td>
</tr>
<tr>
<td>XML</td>
<td>Extensible Markup Language</td>
</tr>
</tbody>
</table>
who initiated the query, or on whose behalf the HIT system initiated the query, viewed the responsive data, if any, transmitted through the CURES IEWS is sent via this endpoint.

<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CheckUserStatus</td>
<td>Retrieves the CURES user account status.</td>
</tr>
<tr>
<td>CheckEntityStatus</td>
<td>Retrieves the HIT system account status.</td>
</tr>
</tbody>
</table>

Information is exchanged using NCPDP SCRIPT 10.6 XML format. Searches can be executed for up to a 12-month period using partial or exact match modes.
The CURES IEWS supports two patient search use cases:

- **Query Use Case 1 – Single Request/Response**
  - Use Case 1 follows the NCPDP standard where every search patient request returns either no match or a single match. The result will be an error message stating there is no match, or will return all of the prescription history associated to the matched entity.

**Figure 1 – Single Request/Response**
Query Use Case 2 – Multiple Matches (Picklist)

- Use Case 2 supports multiple matches via a picklist. In this use case, a patient search returns multiple entities using a NCPDP-like message structure. The requesting entity would then send one or multiple single requests to retrieve the prescription history associated with the matched entity.
- For HIT systems that cannot support this functionality, a response message redirecting the health care practitioner/pharmacist to the CURES web portal is returned.

**Figure 2 – Multiple Request/Response**

Multiple Request/Response (Picklist) Flow

- **Prescriber/Dispenser**
  - Log in to HIT
  - Receives informational message
  - End

- **MOU Entity**
  - Pass P/D attributes, search criteria, and security wrapper
  - Receives informational message
  - End

- **DOJ**
  - Authenticate HIT
    - No: Pass attributes, and the following search criteria to CURES
      - Patient First Name
      - Patient Last Name
      - DEA/Pharm. Lic. Number
      - Optional data
    - Yes: Proceed to Single Request/Response flow
  - Receives informational message
  - Receives results

- **CURES**
  - Validate user credentials
    - No: Reject request
    - Yes: Validate Role
      - No: Rejection
      - Yes: Valid search criteria?
        - Yes: Return Picklist
        - No: Reject request

Practitioner Attributes:
1) First Name
2) Last Name
3) DEA #

Dispenser Attributes:
1) First Name
2) Last Name
3) Pharmacist Lic. #
Account Status Check
In addition to the query use cases, the CURES IEWS provides two web services to query for account status. The first allows HIT systems to query for the CURES user account status. The second allows HIT systems to query for their own account status. These services allow HIT systems to troubleshoot and alter process flows based on account status.

Audit Patient Activity Report
The Audit Patient Activity Report web service call is used in conjunction with the PAR. HIT systems are required to submit a notification via a RxHistoryRequest message confirming that the health care practitioner or pharmacist who initiated the query, or on whose behalf the HIT system submitted the query, viewed the responsive data, if any, transmitted through the CURES IEWS. For purposes of complying with this requirement, there can be only one health care practitioner identified with each query, and, the health care practitioner or pharmacist receiving the CURES data must be the health care practitioner or pharmacist who submitted the initial query.

Figure 3 – Audit Patient Activity Report

<table>
<thead>
<tr>
<th>Audit Patient Activity Report Flow</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Prescriber/Dispenser</strong></td>
</tr>
<tr>
<td>View PAR</td>
</tr>
<tr>
<td>End</td>
</tr>
<tr>
<td>End</td>
</tr>
<tr>
<td><strong>MOU Entity</strong></td>
</tr>
<tr>
<td>Send Audit message</td>
</tr>
<tr>
<td>Receives informational message</td>
</tr>
<tr>
<td>Receives informational message</td>
</tr>
<tr>
<td>Receives informational message</td>
</tr>
<tr>
<td>End</td>
</tr>
<tr>
<td><strong>DOJ</strong></td>
</tr>
<tr>
<td>Authenticated HIT?</td>
</tr>
<tr>
<td>Valid HIT?</td>
</tr>
<tr>
<td>No</td>
</tr>
<tr>
<td>Reject request</td>
</tr>
<tr>
<td>No</td>
</tr>
<tr>
<td><strong>CURES</strong></td>
</tr>
<tr>
<td>Validate message</td>
</tr>
<tr>
<td>Valid message?</td>
</tr>
<tr>
<td>Store Audit Info</td>
</tr>
<tr>
<td>Yes</td>
</tr>
</tbody>
</table>

Figure 3 – Audit Patient Activity Report Flow

Prescriber/Dispenser
- View PAR
- End
- End

MOU Entity
- Send Audit message
- Receives informational message
- Receives informational message
- Receives informational message
- End

DOJ
- Authenticated HIT?
  - Valid HIT?
    - No
    - Reject request
      - No

CURES
- Validate message
  - Valid message?
    - Yes
    - Store Audit Info
3 AUTHENTICATION

3.1 SECURITY LAYERS

The CURES IEWS has three layers of security. Each layer is built on top of the previous layer to ensure the secure exchange of information. Each REST endpoint is stateless, resulting in every request going through all three layers.

Figure 4 – Security Layers

1. Network Security

IP whitelisting ensures only enrolled HIT systems can communicate with the CURES IEWS.

2. Communication Security

Communication between the CURES IEWS and the HIT systems will be over the Internet. As a result, Transport Layer Security (TLS) is required to ensure secure communication between the CURES IEWS and HIT.

3. Access Security

After entering into a MOU with the DOJ, the entity operating the HIT system will be provisioned with a CURES IEWS account. Every RESTful web service request should be accompanied with the CURES IEWS credentials. Credentials are validated to ensure the account is valid and in good standing.
4 AUDITING

4.1 AUDIT DATA

The HIT system is required to provide the following details for every patient request:

1. User Data
   a. The date of the query
   b. The time of the query
   c. Requesting entity operating the HIT system
   d. The identification of the health care practitioner or pharmacist for whom the system is making the query

2. Required Query Data
   a. Patient First Name
   b. Patient Last Name
   c. Patient Date of Birth

The HIT system may provide the following optional data fields:

a. Patient Street Address
b. Patient City
c. Patient State
d. Patient Zip Code
e. Patient Gender

The CURES IEWS captures all of this information. The application also tracks patient searches and their associated PARs.

4.2 PATIENT ACTIVITY REPORT AUDIT

HIT systems are required to submit a view notification, in accordance with the requirements of the MOU executed and in effect between the entity operating the HIT system and the DOJ, confirming that the authorized health care practitioner or pharmacist who initiated the query, or on whose behalf the HIT system initiated the query, viewed the responsive data, if any, transmitted through the CURES IEWS. The view notification is submitted via a RxHistoryRequest message.

The HIT system will send the following data attributes for the prescriber/pharmacist:

1. Prescriber/Pharmacist First Name
2. Prescriber/Pharmacist Last Name
3. Prescriber DEA/Pharmacist State License Number

The HIT system will send the following patient details:
1. Patient Account Number sent in the original report
2. Patient First Name
3. Patient Last name
4. Patient Date of Birth
5. Optional Data Fields:
   a. Patient Street Address
   b. Patient City
   c. Patient State
   d. Patient Zip Code
   e. Patient Gender

5 DATA MAPPING

5.1 DATA MAPPING
The CURES IEWS uses the following mapping to transform data from CURES to the NCPDP request and response messages.
### 5.2 SEARCH PATIENT - REQUEST MAPPING OF CURES DATA TO NCPDP FORMAT

<table>
<thead>
<tr>
<th>Section</th>
<th>CURES</th>
<th>SCRIPT.Message.Body.RxHistoryRequest.</th>
<th>Attribute</th>
<th>Required/Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message</td>
<td>Message</td>
<td>SCRIPT.Message</td>
<td>release=&quot;0006&quot; version=&quot;010&quot; xmlns=&quot;<a href="http://www.ncpdp.org/schema/SCRIPT">http://www.ncpdp.org/schema/SCRIPT</a>&quot;</td>
<td>Required</td>
</tr>
<tr>
<td>Header</td>
<td>Recipient of the message</td>
<td>SCRIPT.Message.Header.To</td>
<td>qualifier=&quot;ZZZ&quot;</td>
<td>Required</td>
</tr>
<tr>
<td></td>
<td>HIT System Identifier</td>
<td>SCRIPT.Message.Header.From</td>
<td>qualifier=&quot;ZZZ&quot;</td>
<td>Required</td>
</tr>
<tr>
<td></td>
<td>Unique MessageID</td>
<td>SCRIPT.Message.Header.MessageID</td>
<td></td>
<td>Required</td>
</tr>
<tr>
<td></td>
<td>SentTime</td>
<td>SCRIPT.Message.Header.SentTime</td>
<td></td>
<td>Required</td>
</tr>
<tr>
<td></td>
<td>Description of facility(Emergency, ICU)</td>
<td>SCRIPT.Message.Header.Sender.TertiaryIdentification</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Receiver</td>
<td>SCRIPT.Message.Header.Receiver</td>
<td></td>
<td>Required</td>
</tr>
<tr>
<td>Requesting User</td>
<td>DEA Number</td>
<td>SCRIPT.Message.Body.RxHistoryRequest.Prescriber.Identification.DEANumber</td>
<td></td>
<td>Required if Prescriber</td>
</tr>
<tr>
<td></td>
<td>Last Name</td>
<td>SCRIPT.Message.Body.RxHistoryRequest.Prescriber.Name.LastName</td>
<td></td>
<td>Required if Prescriber</td>
</tr>
<tr>
<td></td>
<td>First Name</td>
<td>SCRIPT.Message.Body.RxHistoryRequest.Prescriber.Name.FirstName</td>
<td></td>
<td>Required if Prescriber</td>
</tr>
<tr>
<td>Pharmacist</td>
<td>State License Number</td>
<td>SCRIPT.Message.Body.RxHistoryRequest.Pharmacy.Identification.StateLicenseNumber</td>
<td></td>
<td>Required if Pharmacist</td>
</tr>
<tr>
<td></td>
<td>Last Name</td>
<td>SCRIPT.Message.Body.RxHistoryRequest.Pharmacy.Pharmacist.LastName</td>
<td></td>
<td>Required if Pharmacist</td>
</tr>
<tr>
<td></td>
<td>First Name</td>
<td>SCRIPT.Message.Body.RxHistoryRequest.Pharmacy.Pharmacist.FirstName</td>
<td></td>
<td>Required if Pharmacist</td>
</tr>
<tr>
<td>Patient</td>
<td>Last Name</td>
<td>SCRIPT.Message.Body.RxHistoryRequest.Patient.Name.LastName</td>
<td></td>
<td>Required</td>
</tr>
<tr>
<td></td>
<td>First Name</td>
<td>SCRIPT.Message.Body.RxHistoryRequest.Patient.Name.FirstName</td>
<td></td>
<td>Required</td>
</tr>
<tr>
<td></td>
<td><strong>Exact match on gender if F or M is specified in search</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Exact match on State if provided in search</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 5.2.1 Search Patient (Single Match) - Response Mapping of CURES Data to NCPDP Format

<table>
<thead>
<tr>
<th>Section</th>
<th>CURES</th>
<th>NCPDP</th>
<th>Attribute</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>XML Declaration</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>xml version=&quot;1.0&quot; encoding=&quot;UTF-8&quot; standalone=&quot;yes&quot;</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Message</td>
<td>SCRIPT.Message</td>
<td>release = &quot;0006&quot;  version = &quot;010&quot;  xmlns = &quot;<a href="http://www.ncpdp.org/schema/SCRIPT">http://www.ncpdp.org/schema/SCRIPT</a>&quot;</td>
</tr>
<tr>
<td><strong>Header</strong></td>
<td>Message Envelope</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Recipient of the message</strong></td>
<td>SCRIPT.Message.Header.To</td>
<td></td>
<td>qualifier = &quot;ZZZ&quot;</td>
</tr>
<tr>
<td><strong>Sender of the message</strong></td>
<td>SCRIPT.Message.Header.From</td>
<td></td>
<td>qualifier = &quot;ZZZ&quot;</td>
</tr>
<tr>
<td><strong>Unique Message ID</strong></td>
<td>SCRIPT.Message.Header.MessageID</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>RelatedToMessageID</strong></td>
<td>SCRIPT.Message.Header.RelatedToMessageID</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SentTime</strong></td>
<td>SCRIPT.Message.Header.SentTime</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Body</strong></td>
<td>Patient</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Patient Account Number</strong></td>
<td>SCRIPT.Body.RxHistoryResponse.Patient.Identification.PatientAccountNumber</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Last Name</strong></td>
<td>SCRIPT.Body.RxHistoryResponse.Patient.Name.LastName</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>First Name</strong></td>
<td>SCRIPT.Body.RxHistoryResponse.Patient.Name.FirstName</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Gender</strong></td>
<td>SCRIPT.Body.RxHistoryResponse.Patient.Gender</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DOB</strong></td>
<td>SCRIPT.Body.RxHistoryResponse.Patient.DateOfBirth</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Address Line 1</strong></td>
<td>SCRIPT.Body.RxHistoryResponse.Patient.Address.AddressLine1</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>City</strong></td>
<td>SCRIPT.Body.RxHistoryResponse.Patient.Address.City</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>State</strong></td>
<td>SCRIPT.Body.RxHistoryResponse.Patient.Address.State</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## 5.2.2 Search Patient (Multiple Match) - Response Mapping of CURES Data to NCPDP Format

<table>
<thead>
<tr>
<th>Section</th>
<th>CURES</th>
<th>NCPDP</th>
<th>Attribute</th>
</tr>
</thead>
<tbody>
<tr>
<td>XML Declaration</td>
<td>N/A</td>
<td>N/A</td>
<td><em>xml version=&quot;1.0&quot; encoding=&quot;UTF-8&quot; standalone=&quot;yes&quot;</em></td>
</tr>
<tr>
<td>Message</td>
<td>Message</td>
<td>SCRIPT.Message</td>
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### 5.3 Get Patient Activity Report - Request Mapping of CURES Data to NCPDP Format

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**XML Schema**

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- xmlns:xs="http://www.w3.org/2001/XMLSchema"
- xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
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## 5.3.1 Get Patient Activity Report – Response Mapping of CURES Data to NCPDP Format

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### 5.4 Check User Status - Request Mapping of CURES Data to NCPDP Format

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### 5.4.1 CHECK USER STATUS - RESPONSE MAPPING OF CURES DATA TO NCPDP FORMAT

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## 5.5 **CHECK ENTITY STATUS - REQUEST MAPPING OF CURES DATA TO NCPDP FORMAT**

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## 5.5.1 **CHECK ENTITY STATUS - RESPONSE MAPPING OF CURES DATA TO NCPDP FORMAT**

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### 5.6 Audit Patient Activity Report - Request Mapping of CURES Data to NCPDP Format

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<td>Receiver</td>
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<td>Required</td>
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<tr>
<td>Message Envelope</td>
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</tr>
<tr>
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<td>DEA Number</td>
<td>SCRIPT.Body.RxHistoryRequest.Prescriber.Name.LastName</td>
<td>Required if Prescriber</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Last Name</td>
<td>SCRIPT.Body.RxHistoryRequest.Prescriber.Name.FirstName</td>
<td>Required if Prescriber</td>
<td></td>
</tr>
<tr>
<td></td>
<td>First Name</td>
<td>SCRIPT.Body.RxHistoryRequest.Prescriber.Pharmacy.Identification.StateLicenseNumber</td>
<td>Required if Pharmacist</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pharmacist (Requesting User can be either Prescriber or Pharmacist)</td>
<td>SCRIPT.Body.RxHistoryRequest.Pharmacy.Pharmacist.LastName</td>
<td>Required if Pharmacist</td>
<td></td>
</tr>
<tr>
<td></td>
<td>State License Number</td>
<td>SCRIPT.Body.RxHistoryRequest.Pharmacy.Pharmacist.FirstName</td>
<td>Required if Pharmacist</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Last Name</td>
<td>SCRIPT.Body.RxHistoryRequest.Pharmacy.Pharmacist.LastName</td>
<td>Required if Pharmacist</td>
<td></td>
</tr>
<tr>
<td></td>
<td>First Name</td>
<td>SCRIPT.Body.RxHistoryRequest.Patient.PatientAccountNumber</td>
<td>Required</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Patient Account Number</td>
<td>SCRIPT.Body.RxHistoryRequest.Patient.PatientAccountNumber</td>
<td>Required</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Last Name</td>
<td>SCRIPT.Body.RxHistoryRequest.Patient.Name.LastName</td>
<td>Required</td>
<td></td>
</tr>
<tr>
<td></td>
<td>First Name</td>
<td>SCRIPT.Body.RxHistoryRequest.Patient.Name.FirstName</td>
<td>Required</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gender</td>
<td>SCRIPT.Body.RxHistoryRequest.Patient.Gender</td>
<td>Optional</td>
<td></td>
</tr>
<tr>
<td>Section</td>
<td>CURES</td>
<td>NCPDP</td>
<td>Attribute</td>
<td>Required/Optional</td>
</tr>
<tr>
<td>---------</td>
<td>-------</td>
<td>-------</td>
<td>-----------</td>
<td>------------------</td>
</tr>
<tr>
<td><strong>DOB</strong> - YYYY-MM-DD</td>
<td>SCRIPT.Body.RxHistoryRequest.Patient.DateOfBirth.Date</td>
<td></td>
<td></td>
<td>Required</td>
</tr>
<tr>
<td>Address Line 1</td>
<td>SCRIPT.Body.RxHistoryRequest.Patient.Address.AddressLine1</td>
<td></td>
<td></td>
<td>Optional</td>
</tr>
<tr>
<td>City</td>
<td>SCRIPT.Body.RxHistoryRequest.Patient.Address.City</td>
<td></td>
<td></td>
<td>Optional</td>
</tr>
<tr>
<td><strong>Search Time - Range Start</strong></td>
<td>SCRIPT.Body.RxHistoryRequest.BenefitsCoordination.EffectiveDate.Date</td>
<td></td>
<td></td>
<td>Required</td>
</tr>
<tr>
<td><strong>Search Time - Range End</strong></td>
<td>SCRIPT.Body.RxHistoryRequest.BenefitsCoordination.ExpirationDate.Date</td>
<td></td>
<td></td>
<td>Required</td>
</tr>
</tbody>
</table>

### 5.6.1 Audit Patient Activity Report - Response Mapping of CURES Data to NCPDP Format

<table>
<thead>
<tr>
<th>Section</th>
<th>CURES</th>
<th>NCPDP</th>
<th>Attribute</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>XML Declaration</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>xml version=&quot;1.0&quot; encoding=&quot;UTF-8&quot; standalone=&quot;yes&quot;</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>SCRIPT.Message</td>
<td>release = &quot;0006&quot; version=&quot;010&quot; xmlns=&quot;<a href="http://www.ncpdp.org/schema/SCRIPT">http://www.ncpdp.org/schema/SCRIPT</a>&quot;</td>
<td></td>
</tr>
<tr>
<td><strong>Header</strong></td>
<td></td>
<td>qualifier=&quot;ZZZ&quot;</td>
<td></td>
</tr>
<tr>
<td><strong>Recipient of the message</strong></td>
<td>SCRIPT.Message.Header.To</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Sender of the message</strong></td>
<td>SCRIPT.Message.Header.From</td>
<td>qualifier=&quot;ZZZ&quot;</td>
<td></td>
</tr>
<tr>
<td><strong>Unique MessageID</strong></td>
<td>SCRIPT.Message.Header.MessageID</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>RelatesToMessageID</strong></td>
<td>SCRIPT.Message.Header.RelatesToMessageID</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SentTime</strong></td>
<td>SCRIPT.Message.Header.SentTime</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Body</strong></td>
<td>SCRIPT.Status.Code</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Status Code</strong></td>
<td>SCRIPT.Status.Code</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Description Code</strong></td>
<td>SCRIPT.Status.DescriptionCode</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>SCRIPT.Status.Description</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# HTTP Header

## 6.1 HTTP Header

The HTTP header will contain the following information for each transaction:

<table>
<thead>
<tr>
<th>HTTP Header</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Authorization</td>
<td>Base64 encoded HTTP Basic authentication</td>
</tr>
<tr>
<td>X-payload-format</td>
<td>Such as NCPDP, NIEM, FHIR, etc.</td>
</tr>
<tr>
<td>X-search-mode</td>
<td>E(exact) or P(partial)</td>
</tr>
<tr>
<td>X-picklist</td>
<td>Y or N</td>
</tr>
</tbody>
</table>

The X-payload-format header will default to NCPDP as this is the only supported format at this time. The X-search-mode header will default to Partial if not specified. The X-picklist header will default to N if not specified.

### Sample Header:

<table>
<thead>
<tr>
<th>Authorization</th>
<th>Basic ABCDEFGHIJKLMNOPQRSTUVWXYZ1234567</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-payload-format</td>
<td>NCPDP</td>
</tr>
<tr>
<td>X-search-mode</td>
<td>P</td>
</tr>
<tr>
<td>X-picklist</td>
<td>Y</td>
</tr>
</tbody>
</table>
7 ERROR AND STATUS CODES

The NCPDP error and status messages consist of a Code, DescriptionCode, and Description. The CURES IEWS uses NCPDP defined codes to populate the Code element. The following table is from the NCPDP “external-code-list-201701” document, which describes the list of values for the Code field in both error and status structure. If there is a functional failure, the system returns a NCPDP Error message. Requests that fail the NCPDP schema requirements and non-functional errors will result in an HTTP error message.

Y. APPENDIX Y–STATUS CODES

<table>
<thead>
<tr>
<th>NAME OF VALUE</th>
<th>VALUES</th>
<th>STATUSCODE</th>
<th>TRANSACTIONERRORCODE</th>
<th>VUMPERRORCODE</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transaction successful</td>
<td>000</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction successful, message(s) waiting to be retrieved</td>
<td>001</td>
<td>X</td>
<td></td>
<td></td>
<td>Not used by Benefit Integration Standard</td>
</tr>
<tr>
<td>No more messages</td>
<td>002</td>
<td>X</td>
<td></td>
<td></td>
<td>Not used by Benefit Integration Standard</td>
</tr>
<tr>
<td>Transaction successful, no messages to be retrieved</td>
<td>003</td>
<td>X</td>
<td></td>
<td></td>
<td>Not used by Benefit Integration Standard</td>
</tr>
<tr>
<td>Transaction successful, password soon to expire</td>
<td>005</td>
<td>X</td>
<td></td>
<td></td>
<td>Not used by Benefit Integration Standard</td>
</tr>
<tr>
<td>Successful — accepted by ultimate receiver</td>
<td>010</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Communication problem - try again later</td>
<td>600</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Receiver unable to process</td>
<td>601</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Receiver System Error</td>
<td>602</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Configuration Error</td>
<td>700</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction rejected</td>
<td>900</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The DescriptionCode and Description fields are used to provide system-specific details regarding the error or status. The DescriptionCode values can be between 001 – 475. The CURES web service breaks down the DescriptionCodes into the following four categories:

<table>
<thead>
<tr>
<th>Description Code</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>001 - 099</td>
<td>Security</td>
</tr>
<tr>
<td>100 - 299</td>
<td>Communication</td>
</tr>
<tr>
<td>300 - 400</td>
<td>Application</td>
</tr>
<tr>
<td>400 - 475</td>
<td>Reserved</td>
</tr>
</tbody>
</table>
Specifically, the application has defined the following DescriptionCodes and Descriptions:

<table>
<thead>
<tr>
<th>DescriptionCode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>002</td>
<td>Authorization error – user status is not active.</td>
</tr>
<tr>
<td>100</td>
<td>System error</td>
</tr>
<tr>
<td>200</td>
<td>HTTP message</td>
</tr>
<tr>
<td>300</td>
<td>Validation error – Invalid request or Missing data</td>
</tr>
<tr>
<td>301</td>
<td>No results found</td>
</tr>
<tr>
<td>302</td>
<td>Multiple patient matches. Please search via <a href="https://cures.doj.ca.gov">https://cures.doj.ca.gov</a></td>
</tr>
<tr>
<td>303</td>
<td>Missing required patient search field(s) (first name, last name, or DOB)</td>
</tr>
<tr>
<td>330</td>
<td>Provided temporary patient ID does not exist</td>
</tr>
<tr>
<td>341</td>
<td>24 hours have lapsed since initial inquiry. Re-initiate PAR request.</td>
</tr>
<tr>
<td>360</td>
<td>User CURES application is pending approval</td>
</tr>
<tr>
<td>361</td>
<td>Active status, user has access</td>
</tr>
<tr>
<td>362</td>
<td>User CURES account is suspended</td>
</tr>
<tr>
<td>363</td>
<td>User must complete Annual Update on CURES website to receive data</td>
</tr>
<tr>
<td>364</td>
<td>User credentials do not match any CURES account</td>
</tr>
<tr>
<td>365</td>
<td>The viewer of report #[number] does not match the requestor</td>
</tr>
<tr>
<td>366</td>
<td>The viewer of report #[number] matches the requestor</td>
</tr>
<tr>
<td>370</td>
<td>Requesting Entity account in good standing</td>
</tr>
<tr>
<td>371</td>
<td>MOU Entity account inactive. Access denied.</td>
</tr>
<tr>
<td>400</td>
<td>HTTP error</td>
</tr>
</tbody>
</table>
8 SEARCH PATIENT

The search patient request uses the RxHistoryRequest message, which contains three major sections:

- Prescriber or Pharmacy/Pharmacist
- Patient
- BenefitsCoordination

The following fields are required in the Prescriber section of a prescriber query:

- Prescriber DEA Number, as registered in CURES
- Prescriber First Name, as registered in CURES
- Prescriber Last Name, as registered in CURES

The following fields are required in the Pharmacy section of a pharmacist query:

- Pharmacist State License Number
- Pharmacist First Name, as registered in CURES
- Pharmacist Last Name, as registered in CURES

The system uses these fields to identify the CURES account of the prescriber or pharmacist. If the CURES account cannot be found, an error message is returned.

The following fields are required in the Patient section:

a. Patient First Name
b. Patient Last Name
c. Patient Date of Birth

d. Patient Gender (note: an exact search is always executed for Gender if it is provided)
e. Patient Street Address
f. Patient City
g. Patient State (note: irrespective of the search mode, an exact search is always executed for State if it is provided)
h. Patient Zip Code (note: irrespective of the search mode, an exact search is always executed for Zip Code if it is provided)
The BenefitsCoordination section is used to specify the patient search period. The maximum search period is the prior 12 months. If the search period is greater than the maximum or an invalid range is specified, the search will default to the prior 12 months.

Upon successful processing and execution of RxHistoryRequest, the system returns an RxHistoryResponse message with the associated MedicationDispensed if there is only one patient that matches the search criteria. In the case where there are no patient matches for the search, an Error message is returned with the corresponding description code. For HIT systems that support a picklist, where there is more than one patient match, a picklist is returned. For those HIT systems that do not support picklists, the CURES IEWS will return an Error message with the corresponding description code.

If there is a functional failure, the system returns a NCPDP Error message.

If the error is related to authentication or parsing the message, the CURES IEWS returns an HTTP error.
SearchPatient Message Samples

The following is an example of a SearchPatient request issued by a prescriber.

[NOTE: While there are additional data element fields available, those fields are not mandatory.]

PATIENT_REQUEST.XML:

```xml
<?xml version="1.0"?><Message version="010" release="006" xmlns="http://www.ncpdp.org/schema/SCRIPT">
  <Header>
    <To Qualifier="ZZZ">Cures</To>
    <From Qualifier="ZZZ">Acme HIT</From>
    <MessageID>217823</MessageID>
    <SentTime>2018-05-08T19:49:01.0Z</SentTime>
    <Security>
      <UsernameToken>
        <Username>DrJoe@Acme.com</Username>
      </UsernameToken>
      <Sender>
        <SecondaryIdentification>hospitala</SecondaryIdentification>
      </Sender>
    </Security>
  </Header>
  <Body>
    <RxHistoryRequest>
      <Prescriber>
        <Identification>
          <DEANumber>567890</DEANumber>
        </Identification>
        <Name>
          <LastName>Smith</LastName>
          <FirstName>Kevin</FirstName>
        </Name>
      </Prescriber>
      <Patient>
        <Name>
          <LastName>Doe</LastName>
          <FirstName>Jane</FirstName>
        </Name>
        <DateOfBirth>
          <Date>1978-06-04</Date>
        </DateOfBirth>
        <BenefitsCoordination>
          <EffectiveDate>
            <Date>2015-01-01</Date>
          </EffectiveDate>
          <ExpirationDate>
            <Date>2015-10-08</Date>
          </ExpirationDate>
          <Consent>Y</Consent>
        </BenefitsCoordination>
      </Patient>
    </RxHistoryRequest>
  </Body>
</Message>
```
Sample Response with one result:
<Message version="010" release="006">
  <Header>
    <To Qualifier="ZZZ">Acme HIT</To>
    <From Qualifier="ZZZ">Cures</From>
    <MessageID>217824</MessageID>
    <RelatesToMessageID>217823</RelatesToMessageID>
    <SentTime>2018-05-08T19:50:10.0Z</SentTime>
    <Security>
      <UsernameToken>
        <Username>DrJoe@Acme.com</Username>
      </UsernameToken>
      <Sender>
        <SecondaryIdentification>hospitala</SecondaryIdentification>
      </Sender>
    </Security>
  </Header>
  <Body>
    <RxHistoryResponse>
      <Response>
        <Approved/>
      </Response>
      <Patient>
        <Identification>
          <PatientAccountNumber>12345</PatientAccountNumber>
        </Identification>
        <Name>
          <FirstName>Jane</FirstName>
          <LastName>Doe</LastName>
        </Name>
        <Gender>F</Gender>
        <DateOfBirth>
          <Date>1978-06-04</Date>
        </DateOfBirth>
        <Address>
          <AddressLine1>123 Main St</AddressLine1>
          <City>Sacramento</City>
          <State>CA</State>
          <ZipCode>95814</ZipCode>
        </Address>
      </Patient>
      <BenefitsCoordination>
        <EffectiveDate>
          <Date>2017-06-20</Date>
        </EffectiveDate>
        <ExpirationDate>
      </BenefitsCoordination>
    </RxHistoryResponse>
  </Body>
</Message>
<Date>2018-06-20</Date>
</ExpirationDate>
</BenefitsCoordination>
<MedicationDispensed>
  <DrugDescription>HYDROCODON 10-500</DrugDescription>
  <DrugCoded>
    <Strength>500</Strength>
    <FormCode>TAB</FormCode>
  </DrugCoded>
  <Quantity>
    <Value>50</Value>
    <CodeListQualifier>87</CodeListQualifier>
    <UnitSourceCode>AC</UnitSourceCode>
  </Quantity>
  <DaysSupply>30</DaysSupply>
  <Note>Rx#:981834;PaymentMethod:Private Pay;SpeciesCode:01</Note>
  <Refills>
    <Qualifier>A</Qualifier>
    <Value>2</Value>
  </Refills>
  <Refills>
    <Qualifier>R</Qualifier>
    <Value>2</Value>
  </Refills>
  <LastFillDate>
    <Date>2018-05-01</Date>
  </LastFillDate>
  <SoldDate>
    <Date>2018-05-01</Date>
  </SoldDate>
  <Pharmacy>
    <StoreName>CVS</StoreName>
    <Identification>
      <StateLicenseNumber>123456</StateLicenseNumber>
    </Identification>
  </Pharmacy>
  <Prescriber>
    <ClinicName>Doe, John</ClinicName>
    <Identification>
      <DEANumber>1234566</DEANumber>
    </Identification>
  </Prescriber>
</MedicationDispensed>
</RxHistoryResponse>
</Body>
</Message>
Sample Response with Multiple Results for Picklist:

For this type of response, the list of patients in xml format is embedded inside the GetMessage.

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Message version="010" release="006" xmlns="http://www.ncpdp.org/schema/SCRIPT">
  <Header>
    <To Qualifier="ZZZ">Acme HIT</To>
    <From Qualifier="ZZZ">cures</From>
    <MessageID>5620ccac1-8508-46fb-808a-98859c9e6e</MessageID>
    <RelatesToMessageID>A1232BD</RelatesToMessageID>
    <SentTime>2019-03-13T09:59:36.191-07:00</SentTime>
    <Security>
      <UsernameToken>
        <Username>DrJoe@Acme.com</Username>
      </UsernameToken>
      <Username>DrJoe@Acme.com</Username>
      <Sender>
        <SecondaryIdentification>hospitala</SecondaryIdentification>
      </Sender>
      <Receiver>
        <SecondaryIdentification>hospitala</SecondaryIdentification>
      </Receiver>
    </Security>
  </Header>
  <Body>
    <GetMessage xsi:type="xs:string" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
      <PatientsContainer xmlns="http://www.ncpdp.org/schema/SCRIPT">
        <Patients>
          <Identification>
            <PatientAccountNumber>47100</PatientAccountNumber>
          </Identification>
          <Name>
            <LastName>DOE</LastName>
            <FirstName>JOHN</FirstName>
          </Name>
          <Gender>M</Gender>
          <DateOfBirth><Date>1990-01-06</Date></DateOfBirth>
          <Address>
            <AddressLine1>### IRONWOOD STREET</AddressLine1>
            <City>VACAVILLE</City>
            <State>CA</State>
            <ZipCode>95688</ZipCode>
          </Address>
        </Patients>
        <Patients>
          <Identification>
            <PatientAccountNumber>47101</PatientAccountNumber>
          </Identification>
          <Name>
            <LastName>DOE</LastName>
            <FirstName>JOHN</FirstName>
          </Name>
          <Gender>F</Gender>
          <DateOfBirth><Date>1990-01-06</Date></DateOfBirth>
          <Address>
            <AddressLine1>### IRONWOOD STREET</AddressLine1>
            <City>VACAVILLE</City>
            <State>CA</State>
            <ZipCode>95688</ZipCode>
          </Address>
        </Patients>
        <Patients>
          <Identification>
            <PatientAccountNumber>47102</PatientAccountNumber>
          </Identification>
          <Name>
            <LastName>DOE</LastName>
            <FirstName>JOHNATHAN</FirstName>
          </Name>
          <Gender>M</Gender>
          <DateOfBirth><Date>1990-01-06</Date></DateOfBirth>
          <Address>
            <AddressLine1>### IRONWOOD STREET</AddressLine1>
            <City>VACAVILLE</City>
            <State>CA</State>
            <ZipCode>95688</ZipCode>
          </Address>
        </Patients>
      </PatientsContainer>
    </GetMessage>
  </Body>
</Message>
```
The example above has been converted for readability:

```xml
<Message version="010" release="006">
    <Header>
        <To Qualifier="ZZZ">Acme HIT</To>
        <From Qualifier="ZZZ">cures</From>
        <MessageID>217825</MessageID>
        <SentTime>2018-05-08T20:49:10.0Z</SentTime>
        <Security>
            <UsernameToken>
                <Username>DrJoe@Acme.com</Username>
            </UsernameToken>
            <Sender>
                <SecondaryIdentification>hospitala</SecondaryIdentification>
            </Sender>
        </Security>
    </Header>
    <Body>
        <GetMessage>
            <GetMessage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
                <PatientsContainer xmlns="http://www.ncpdp.org/schema/SCRIPT">
                    <Patients>
                        <Identification>
                            <PatientAccountNumber>47100</PatientAccountNumber>
                        </Identification>
                        <Name>
                            <LastName>DOE</LastName>
                            <FirstName>JOHN</FirstName>
                        </Name>
                        <Gender>M</Gender>
                        <DateOfBirth>
                            <Date>1990-01-06</Date>
                        </DateOfBirth>
                        <Address>
                            <AddressLine1>IRONWOOD ST</AddressLine1>
                            <City>VACAVILLE</City>
                            <State>CA</State>
                            <ZipCode>95685</ZipCode>
                        </Address>
                    </Patients>
                    <Patients>
                        <Identification>
                            <PatientAccountNumber>47103</PatientAccountNumber>
                        </Identification>
                        <Name>
                            <LastName>DOE</LastName>
                            <FirstName>JOHN</FirstName>
                        </Name>
                        <Gender>M</Gender>
                        <DateOfBirth>
                            <Date>1990-01-06</Date>
                        </DateOfBirth>
                        <Address>
                            <AddressLine1>IRONWOOD ST</AddressLine1>
                            <City>VACAVILLE</City>
                            <State>CA</State>
                            <ZipCode>95307</ZipCode>
                        </Address>
                    </Patients>
                </PatientsContainer>
            </GetMessage>
        </GetMessage>
    </Body>
</Message>
```
<AddressLine1>IRONWOOD STREET</AddressLine1>
<City>VACAVILLE</City>
<State>CA</State>
<ZipCode>95688</ZipCode>
</Address>
</Patients>

<Patients>
  <Identification>
    <PatientAccountNumber>47101</PatientAccountNumber>
  </Identification>
  <Name>
    <LastName>DOE</LastName>
    <FirstName>JOHN</FirstName>
  </Name>
  <Gender>F</Gender>
  <DateOfBirth>
    <Date>1990-01-06</Date>
  </DateOfBirth>
  <Address>
    <AddressLine1>IRONWOOD STREET</AddressLine1>
    <City>VACAVILLE</City>
    <State>CA</State>
    <ZipCode>93301</ZipCode>
  </Address>
</Patients>

<Patients>
  <Identification>
    <PatientAccountNumber>47102</PatientAccountNumber>
  </Identification>
  <Name>
    <LastName>DOE</LastName>
    <FirstName>JOHNATHAN</FirstName>
  </Name>
  <Gender>M</Gender>
  <DateOfBirth>
    <Date>1990-01-06</Date>
  </DateOfBirth>
  <Address>
    <AddressLine1>IRONWOOD STREET</AddressLine1>
    <City>VACAVILLE</City>
    <State>CA</State>
    <ZipCode>95685</ZipCode>
  </Address>
</Patients>

<Patients>
  <Identification>
    <PatientAccountNumber>47103</PatientAccountNumber>
  </Identification>
</Patients>
<Name>
  <LastName>DOE</LastName>
  <FirstName>JOHN</FirstName>
</Name>

<Gender>M</Gender>

<DateOfBirth>
  <Date>1990-01-06</Date>
</DateOfBirth>

<Address>
  <AddressLine1>### IRONWOOD ST</AddressLine1>
  <City>VACAVILLE</City>
  <State>CA</State>
  <ZipCode>95307</ZipCode>
</Address>

</Patients>
</PatientsContainer>
</GetMessage>
</Body>
</Message>

Sample Response with Multiple Results for non-Picklist:

<Message version="010" release="006">
  <Header>
    <To Qualifier="ZZZ"> Acme HIT </To>
    <From Qualifier="ZZZ"> cures </From>
    <MessageID>217826</MessageID>
    <SentTime>2018-05-08T20:50:10.0Z</SentTime>
  </Header>
  <Body>
    <Error>
      <Code>900</Code>
      <DescriptionCode>302</DescriptionCode>
      <Description>Multiple patient matches. Please search via https://cures.doj.ca.gov</Description>
    </Error>
  </Body>
</Message>

Sample Response with No Results:

<Message version="010" release="006">
  <Header>
    <To Qualifier="ZZZ"> Acme HIT </To>
    <From Qualifier="ZZZ"> cures </From>
    <MessageID>217827</MessageID>
    <SentTime>2018-05-08T20:52:10.0Z</SentTime>
  </Header>
  <Body>
    <Error>
      <Code>900</Code>
    </Error>
  </Body>
</Message>
<DescriptionCode>301</DescriptionCode>
<Description>No result found</Description>
</Error>
</Body>
</Message>

**Sample Error Response:**

```xml
<Message version="010" release="006">
  <Header>
    <To Qualifier="ZZZ">Acme HIT</To>
    <From Qualifier="ZZZ">Cures</From>
    <MessageID>217828</MessageID>
    <SentTime>2018-05-08T20:53:10.0Z</SentTime>
  </Header>
  <Body>
    <Error>
      <Code>900</Code>
      <DescriptionCode>330</DescriptionCode>
      <Description>Validation error – Invalid patient Id</Description>
    </Error>
  </Body>
</Message>
```
9 GET PATIENT ACTIVITY REPORT

GetPatientActivityReport should follow a successful SearchPatient call to retrieve a match from the picklist response. Each SearchPatient picklist is valid for 24 hours. After 24 hours, another search must be executed to retrieve a fresh patient picklist to be used with the GetPatientActivityReport web service.

The following is the process flow for the GetPatientActivityReport:

- The SearchPatient function returns a patient picklist via a RxHistoryResponse message
- The user picks patient(s) from the picklist by the PatientAccountNumber data element
- The selected patient(s) are the input parameters for GetPatientActivityReport function
- NCPDP format cannot accommodate multiple patients. If there are multiple matches from the picklist, the requesting entity must call this function multiple times, one for each match.

Upon successful execution, the method shall return an RxHistoryResponse message. If there is a failure, an NCPDP Error message is returned with the associated error code, description code, and description. If the error is related to authentication or parsing the message, the CURES IEWS returns an HTTP error.

GetPatientActivityReport Message Samples:

**PATIENT_ACTIVITY_REPORT.XML**:

```xml
<?xml version="1.0"?>
<Message version="010" release="006" xmlns="http://www.ncpdp.org/schema/SCRIPT">
  <Header>
    <To Qualifier="ZZZ">Cures</To>
    <From Qualifier="ZZZ">Acme HIT</From>
    <MessageID>217823</MessageID>
    <SentTime>2018-05-08T19:49:01.0Z</SentTime>
    <Security>
      <UsernameToken>
        <Username>drjoe@acme.com</Username>
      </UsernameToken>
      <Sender>
        <SecondaryIdentification>hospitala</SecondaryIdentification>
      </Sender>
    </Security>
  </Header>
  <Body>
    <RxHistoryRequest>
      <Prescriber>
        <Identification>
```

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<DEANumber>567890</DEANumber>
</Identification>
>Name>
  <LastName>Smith</LastName>
  <FirstName>Kevin</FirstName>
</Name>
</Prescriber>
<Patient>
  <Identification>
    <PatientAccountNumber>78900</PatientAccountNumber>
  </Identification>
  <Name>
    <LastName>Doe</LastName>
    <FirstName>Jane</FirstName>
  </Name>
  <DateOfBirth>
    <Date>1978-06-04</Date>
  </DateOfBirth>
</Patient>
<BenefitsCoordination>
  <EffectiveDate>
    <Date>2015-01-01</Date>
  </EffectiveDate>
  <ExpirationDate>
    <Date>2015-10-08</Date>
  </ExpirationDate>
  <Consent>Y</Consent>
</BenefitsCoordination>
</RxHistoryRequest>
</Body>
</Message>

**Sample Response:**

This is the same as the sample response in SearchPatient section.

**Sample Error:**

This is the same as the sample response in SearchPatient section.
10 **CHECK USER STATUS**

This web service returns the CURES account status of a prescriber or pharmacist. Upon successful execution, this method should return an NCPDP status message. If the error is related to authentication or parsing the message, the CURES IEWS returns an HTTP error.

**CheckUserStatus Message Samples:**

**CHECK_USER_STATUS.XML:**
```xml
<?xml version="1.0"?>
<Message version="010" release="006" xmlns="http://www.ncpdp.org/schema/SCRIPT">
  <Header>
    <To Qualifier="ZZZ">Cures</To>
    <From Qualifier="ZZZ">Acme HIT</From>
    <MessageID>217823</MessageID>
    <SentTime>2018-05-08T19:49:01.0Z</SentTime>
    <Security>
      <UsernameToken>
        <Username>Acme-HIT</Username>
      </UsernameToken>
      <Sender>
        <SecondaryIdentification>hospitala</SecondaryIdentification>
      </Sender>
      <Receiver/>
    </Security>
  </Header>
  <Body>
    <Verify>
      <VerifyStatus>
        <Code>000</Code>
        <Description>user status</Description>
      </VerifyStatus>
      <Prescriber>
        <Identification>
          <DEANumber>1234678</DEANumber>
        </Identification>
        <Name>
          <LastName>Doe</LastName>
          <FirstName>John</FirstName>
        </Name>
      </Prescriber>
    </Verify>
  </Body>
</Message>
```

**Sample Response:**
```xml
<Message version="010" release="006">
  <Header>
    <To Qualifier="ZZZ">Acme HIT</To>
    <From Qualifier="ZZZ">Cures</From>
  </Header>
</Message>
```
Sample Error:
This is the same as the sample response in the SearchPatient section.
11 CHECK ENTITY STATUS

This web service returns the HIT system’s account status. Upon successful execution, this method should return an NCPDP status message.

**CheckEntityStatus Message Samples:**

**CHECK_ENTITY_STATUS.XML:**

```xml
<?xml version="1.0"?>
<Message version="010" release="006" xmlns="http://www.ncpdp.org/schema/SCRIPT">
    <Header>
        <To Qualifier="ZZZ">Cures</To>
        <From Qualifier="ZZZ">Acme HIT</From>
        <MessageID>217823</MessageID>
        <SentTime>2018-05-08T19:49:01.0Z</SentTime>
        <Security>
            <UsernameToken>
                <Username>drjoe@acme.com</Username>
            </UsernameToken>
            <Sender>
                <Secondaryidentification>hospitala</Secondaryidentification>
            </Sender>
            <Receiver></Receiver>
        </Security>
    </Header>
    <Body>
        <Verify>
            <VerifyStatus>
                <Code>000</Code>
                <Description>request user status</Description>
            </VerifyStatus>
        </Verify>
    </Body>
</Message>
```

**Sample Response:**

```xml
<Message version="010" release="006">
    <Header>
        <To Qualifier="ZZZ">Acme HIT</To>
        <From Qualifier="ZZZ">Cures</From>
        <MessageID>217823</MessageID>
        <SentTime>2018-05-08T19:49:10.0Z</SentTime>
    </Header>
    <Body>
        <Status>
            <Code>000</Code>
            <DescriptionCode>370</DescriptionCode>
            <Description>Requesting Entity account in good standing</Description>
        </Status>
    </Body>
</Message>
```
Sample Error:
This is the same as the sample response in the SearchPatient section.
12 Audit Patient Activity Report

The HIT system will send a view notification, in accordance with the requirements of the MOU executed and in effect between the entity operating the HIT system and the DOJ, to the AuditPatientActivityReport web service. This web service uses the NCPDP RxHistoryRequest message. Upon successful execution, this method should return an NCPDP status message.

AuditPatientActivityReport Message Samples:

PATIENT_ACTIVITY_REPORT.XML:

Sample Prescriber request:

```xml
<?xml version="1.0"?>
<Message version="010" release="006" xmlns="http://www.ncpdp.org/schema/SCRIPT">
  <Header>
    <To Qualifier="ZZZ">Cures</To>
    <From Qualifier="ZZZ">Acme HIT</From>
    <MessageID>217824</MessageID>
    <RelatesToMessageID>217823</RelatesToMessageID>
    <SentTime>2018-05-08T19:49:01.0Z</SentTime>
    <Security>
      <UsernameToken>
        <Username>drjoe@acme.com</Username>
      </UsernameToken>
      <Sender>
        <SecondaryIdentification>hospitala</SecondaryIdentification>
      </Sender>
      <Receiver></Receiver>
    </Security>
  </Header>
  <Body>
    <RxHistoryRequest>
      <Prescriber>
        <Identification>
          <DEANumber>567890</DEANumber>
        </Identification>
        <Name>
          <LastName>Smith</LastName>
          <FirstName>Kevin</FirstName>
        </Name>
      </Prescriber>
      <Patient>
        <Identification>
          <PatientAccountNumber>8777</PatientAccountNumber>
        </Identification>
        <Name>
          <LastName>Doe</LastName>
          <FirstName>Jane</FirstName>
        </Name>
        <DateOfBirth>
          <Date>1978-06-04</Date>
        </DateOfBirth>
      </Patient>
    </RxHistoryRequest>
  </Body>
</Message>
```
</DateOfBirth>
</Patient>
</BenefitsCoordination>

<EffectiveDate>
<Date>2015-01-01</Date>
</EffectiveDate>
<ExpirationDate>
<Date>2015-10-08</Date>
</ExpirationDate>
<Consent>Y</Consent>
</BenefitsCoordination>
</RxHistoryRequest>
</Body>
</Message>

Sample Pharmacist request:

<?xml version="1.0"?>
<Message version="010" release="006" xmlns="http://www.ncpdp.org/schema/SCRIPT">
<Header>
  <To Qualifier="ZZZ">Cures</To>
  <From Qualifier="ZZZ">Acme HIT</From>
  <MessageID>217824</MessageID>
  <RelatesToMessageID>217823</RelatesToMessageID>
  <SentTime>2018-05-08T19:49:01.0Z</SentTime>
  <Security>
    <UsernameToken>
      <Username>drjoe@acme.com</Username>
    </UsernameToken>
    <Sender>
      <SecondaryIdentification>hospitala</SecondaryIdentification>
    </Sender>
    <Receiver/>
  </Security>
</Header>

<Body>
  <RxHistoryRequest>
    <Pharmacy>
      <Identification>
        <StateLicenseNumber>567890</StateLicenseNumber>
      </Identification>
      <Pharmacist>
        <LastName>Smith</LastName>
        <FirstName>Kevin</FirstName>
      </Pharmacist>
    </Pharmacy>
    <Patient>
      <Identification>
        <PatientAccountNumber>8777</PatientAccountNumber>
      </Identification>
    </Patient>
  </RxHistoryRequest>
</Body>
</Message>
<LastName>Doe</LastName> <FirstName>Jane</FirstName>
</Name> <DateOfBirth>
  <Date>1978-06-04</Date>
</DateOfBirth>
</Patient> <BenefitsCoordination>
  <EffectiveDate>
    <Date>2015-01-01</Date>
  </EffectiveDate>
  <ExpirationDate>
    <Date>2015-10-08</Date>
  </ExpirationDate>
  <Consent>Y</Consent>
</BenefitsCoordination>
</RxHistoryRequest>
</Body>
</Message>

Sample Response:
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Message version="010" release="006" xmlns="http://www.ncpdp.org/schema/SCRIPT">
  <Header>
    <To Qualifier="ZZZ">Acme HIT</To>
    <From Qualifier="ZZZ">Cures</From>
    <MessageID>2b381089-f9ba-48b6-83fb-18beb979e6d</MessageID>
    <RelatesToMessageID>217823</RelatesToMessageID>
    <SentTime>2018-05-08T19:50:01.0Z</SentTime>
    <Security>
      <UsernameToken>
        <Username>drjoe@acme.com</Username>
      </UsernameToken>
      <Sender>
        <SecondaryIdentification>hospitala</SecondaryIdentification>
      </Sender>
      <Receiver/>
    </Security>
  </Header>
  <Body>
    <Status>
      <Code>000</Code>
      <DescriptionCode>366</DescriptionCode>
      <Description>The viewer of report #8777 matches the requestor</Description>
    </Status>
  </Body>
</Message>
Sample Error:

This is the same as the sample response in SearchPatient section.

13 Testing

13.1 Getting started

Prior to using the CURES web service, HIT systems will complete two phases of testing. The first phase will be focused on connectivity. HIT systems will specify an IP address for their test server(s) to be whitelisted. A CURES account will then be created for the HIT system.

After connectivity has been established, the HIT system can move on to functional testing. Each HIT system will be given a list of test patients at the beginning of the test process. The HIT system can use the prescriber and pharmacist accounts to test all of the REST endpoints. The HIT system must execute each test case provided, and provide the request and response XMLs for each test case. The test cases will be submitted to DOJ for review before Production access is granted.