**State Prescription Monitoring Program (SPMP) Enhancement**

Requirements Specification Document



**March 2016**

Version 1.5

Department of Veterans Affairs

Revision History

Note: The revision history cycle begins once changes or enhancements are requested after the Requirements Specification Document has been baselined.

| Date | Version | Description | Author |
| --- | --- | --- | --- |
| 02/12/16 | 1.5 | Revisions:  Section 3.6 Functional Requirements Additions and Updates  New Requirement under story 223822  Updated state requirements for MA and IN.  Section 3.6.7 - Added Reqs to Apportioned Requirements  Removed Appendix E (VistA Source Info will be in Technical Manual) |  |
| 01/11/16 | 1.4 | Revisions:  Section 3.6 Functional Requirements Additions and Updates (Resynchronized requirements to RTC)  Section 3.6.7 - Added Story/Reqs to Apportioned Requirements |  |
| 10/26/15 | 1.3 | Revisions:  Section 1.3 References  Added new SPMP Reference links  Section 3.6 Functional Requirements Additions and Updates  Created Section 3.6.7 Apportioned Requirements  Created Section 6 Estimation  Appendix A: Vendor/State Status Updates |  |
| 10/15/15 | 1.2 | Revisions:  Section 3.6 Functional Requirements  Updated Req [615392](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_nncxgWt3EeWdSY9jJpsgnw)  Added/Updated reqs under User Story [223823](https://server1.server2..domain:9443/ccm/web/projects/CA%20(CM)#action=com.ibm.team.workitem.viewWorkItem&id=223823&tab=com.ibm.team.workitem.tab.links)  Added Req under User Story [223828](https://server1.server2..domain:9443/ccm/web/projects/CA%20(CM)#action=com.ibm.team.workitem.viewWorkItem&id=223828&tab=com.ibm.team.workitem.tab.links)  Appendix B  Updated TSPR Sub-Section reference  Appendix D  Added new acronym |  |
| 09/15/15 | 1.1 | Revisions:  Section 1.1 Purpose  Updated statement  Section 1.3 References  Added new SPMP Reference links  Section 3.1 Accessibility Specifications:  Added Section 508 Checklist references  Section 3.6 Functional Specifications:  Added Epic Stories, User Stories, and Functional Specifications via ongoing elaboration to support existing business requirements and planned technical solution  Re-organized pre-existing requirements statements to align with the appropriate Epic and User Story  Appendix B and C  Replacement of embedded documents with hyperlinks  Appendix E Addition  Technical Review and Edit |  |
| 7/31/15 | 1.0 | Baseline Version | , , |
| 7/24/15 | 0.1 | Initial draft version |  |

Artifact Rationale

The Requirements Specification Document (RSD) records the results of the specification gathering processes carried out during the Requirements phase. The RSD is generally written by the functional analyst(s) and should provide the bulk of the information used to create the test plan and test scripts. It should be updated for each increment.

The level of detail contained in this RSD should be consistent with the size and scope of the project. It is not necessary to fill out any sections of this document that do not apply to the project. The resources necessary to create and maintain this document during the life cycle of a large project should be acknowledged and clearly reflected in project schedules. Do not duplicate data that is already defined in another document or a section in this document; note in the section where the information can be found.

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# Introduction

The Consolidated Appropriations Act, 2012, Public Law Number 112-74 (the “Act”) was signed into law by President Obama on December 23, 2011. This legislation states, “Under regulations the Secretary shall prescribe, the Secretary may disclose information about a veteran or the dependent of a veteran to a State controlled substance monitoring program…” This means the Veterans Health Administration (VHA) is allowed to make data available regarding prescription drugs to state-level reporting databases known as Prescription Drug Monitoring Programs (PDMPs) or Prescription Monitoring Programs (PMPs). To comply with the legislation, VHA is required to have the function and ability to do three things: 1. VHA must have the ability to collect the necessary prescription data electronically, 2. VHA must have the ability to make this data available to all approved state drug reporting databases electronically, 3. VHA providers and pharmacists must have the ability to electronically query, extract, and use data from corresponding state drug reporting databases.

## Purpose

The purpose of this RSD is to address additional work identified after the completion of NSR 20101201 Mandatory Reporting to State Controlled Substance Rx Databases Required by National All Schedules Prescription Electronic Reporting Act (NASPER) Legislation.

This previous version of the software was released, deployed, and interfaces activated but today several sites remain unable to send their data due to additional vendor or state requirements or security concerns.

The target audience includes pharmacy users and State Prescription Monitoring Program (SPMP) project team and test users.

The requirements were derived from multiple interviews and communications with vendors, state representatives, VHA business owner, and VA SPMP team members.

## Scope

The scope of this project is to provide the ability to meet Consolidated Appropriations Act, 2012, Public Law (PL) Number 112-74 that allows the VHA to make information about a Veteran or the dependent of a Veteran available to state-controlled substance monitoring program databases known as PDMPs or PMPs.

This Requirements Specification Document (RSD) provides the functional enhancement requirements for Fiscal Year (FY) 2015 of the State Prescription Monitoring Program Enhancement (SPMP) project to satisfy the New Service Request (NSR) #20150701 - Mandatory Reporting to State Controlled Substance Rx Databases Required by Consolidated Appropriations Act, 2012, PL 112-74.

While speaking with the PDMP vendors to clarify their enhancement requests, we also asked about their Federal Information Processing Standard (FIPS) 140-2 compliance. The results are in [Appendix A](#_Appendix_A:_Vendor/State).

The requirements contained in this document are enhancements to PS0\*7\*408.

The VA currently supports the following versions of American Society for Automation in Pharmacy (ASAP) standards and this enhancement will continue to support the following versions: ASAP 1995, ASAP 3.0, ASAP 4.0, ASAP 4.1, and ASAP 4.2.

## References

* Technical Services Project Repository (TSPR)

<http://domain.ext/warboard/anotebk.asp?proj=1849&Type=Active>

* New Service Request (NSR) 20150701: <http://domain.ext/nsrd/Tab_GeneralInfoView.asp?RequestID=20150701>. <http://domain.ext/nsrd/ViewITRequestNSR.asp?RequestID=20150701>.
* Previous RSD, PSO\_7\_408\_RSD:

[Safety Updates for Medication Prescription Management (SUMPM) Project Planning -- Requirements Specification Document](http://domain.ext.domain.ext/warboard/anotebk.asp?proj=1356&Type=Active)

* Previous SDD, PSO\_7\_408\_SDD:

[Safety Updates for Medication Prescription Management (SUMPM) Project Planning -- Software Design Document](http://domain.ext.domain.ext/warboard/anotebk.asp?proj=1356&Type=Active)

* Prescription Drug Monitoring Program (PDMP) Training and Technical Assistance Center State Profiles:

<http://www.pdmpassist.org/content/state-profiles>

* VA Pharmacy Benefits Management (PBM) State Prescription Program Monitoring Documents:

<https://domain.ext/cmop/PBM/Public/SPMP/Documents/Forms/AllItems.aspx>

* The American Society for Automation in Pharmacy (ASAP) Implementation Guide Standard for Prescription Monitoring Programs for versions 4.2, 4.1, 4.0, and 3.0; See Project Planning ---- Requirements Specification Document sub-header:

http://domain.ext/warboard/anotebk.asp?proj=1849&Type=Active

# Constraints

* The requirements in this document are based upon the information as disclosed by vendors and states. Some requirements may have not been captured due to incomplete information. As the PDMP environment changes regularly, such as PDMP vendors merging, some additional requirements may emerge that were not the case at the time of this writing.
* The requirements contained in this document address the enhancement requests provided by the VA. During the development of this document, the VA determined that some states did not meet mandatory federal security requirements for data at rest encryption. As a result, the required communication ports were not made available to the vendors, and no tests of transmission could occur. Consequently, once this issue is resolved, some additional requirements may emerge that was not the case at the time of this writing.
* Although the RSD is considered a “living document”, the requirements herein are also a snapshot in time. Most individual state PDMP specifications are stable; however, this is subject to change at any point in time due to variables such as changes in a state’s PDMP vendor or other unpredictable changes.

# Overall Description

The State Prescription Monitoring program provides VA the ability to transmit prescription drugs data to state-level reporting databases known as PDMPs or PMPs. The intended users of the SPMP enhancements are pharmacists, pharmacy technicians, and Veteran patients and their families. The goal of this enhancement supports improved business process, patient care, and resource utilization, as well as reduces spending and/or increases revenue generation.

## Accessibility Specifications

The system shall be in conformance with Section 508 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794d). Section 508 requirements are currently defined and depicted in the Health Systems Design and Development (HSDandD). Section 508 Checklists for Legacy VistA (MUMPS) Software Applications and Operating System guideline will be followed.

The SPMP team will use the following checklists as a guide when building the application. We will work closely with the 508 office to ensure that the SPMP functionality within the legacy VistA application adheres to the current guidelines.

* 1194.21 Software applications and operating systems Word document
* 1194.31 Functional performance criteria Word document
* 1194.41 Information, documentation, and support Word document

## Business Rules Specification

Section 3.2 of this RSD remains unchanged from the previous enhancement PSO\_7\_408\_RSD/December 2013 Section 2.2.

## Design Constraints Specification

This enhancement is constrained by the previous implementation PSO\_7\_408.

## Disaster Recovery Specification

Section 3.4 remains unchanged from the previous enhancement PSO\_7\_408.

## Documentation Specifications

Updates shall be made, as necessary, to the applicable user manuals and Operations and Maintenance (OM) manuals, disaster recovery plan related to the VistA Pharmacy applications located on the VA Software Documentation Library. If no user, OM documentation, or disaster recovery plan exists, then they shall be produced.

## Functional Specifications

This section contains the functional requirements necessary for the development work supporting the enhancement of the SPMP module within the legacy VistA system. The requirement statements have been aligned in correlation to their respective Epic and User Story to support Agile software development practices. Stakeholder prioritization of these requirements will be recorded and published using the VA-supplied IBM Rational Team Concert application.

Apportioned requirements, as identified, will be recorded and marked to indicate those requirements may be delayed to future versions of SPMP development.

### SPMP User Customizable ASAP Message Functionality

### RTC Epic Story [223767](https://server1.server2..domain:9443/ccm/web/projects/CA%20(CM)#action=com.ibm.team.workitem.viewWorkItem&id=223767): As a VA SPMP System Administrator, I would like to modify my outgoing SPMP message so that I may meet the specific state PDMP data requirements.

#### RTC User Story [223768](https://server1.server2..domain:9443/ccm/web/projects/CA%20(CM)#action=com.ibm.team.workitem.viewWorkItem&id=223768): As a VA SPMP System Administrator, I would like to view all segments and data elements for each ASAP version, so I may select a data element as required by my state’s Prescription Drug Monitoring Program (PDMP).

##### RTC Req [615078](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_i5_HomhoEeWNkN4Z2J_4OQ): The legacy VistA system shall display all ASAP Segments for each ASAP versions 4.2, 4.1, 4.0, and 3.0

* + - **Note:** See the PSO\*7\*451 Technical Manual for supplemental detail on existing fields and fields to be added or modified with patch PSO\*7\*451. ASAP version 1995 will not be modified with this enhancement. Explicit details of each ASAP version, data segment, and data element are located in the SPMP Enhancement project TSPR site. See RSD Reference section for link to the project’s TSPR site.

#### RTC User Story [223777](https://server1.server2..domain:9443/ccm/web/projects/CA%20(CM)#action=com.ibm.team.workitem.viewWorkItem&id=223777): As a VA SPMP System Administrator, I would like to modify a selected VA SPMP existing ASAP data segment and/or element, so I may conform to my state’s PDMP data requirements.

##### RTC Req [615094](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_hh4vcWhsEeWNkN4Z2J_4OQ): The legacy VistA system shall limit the ASAP data element length to the ASAP Max data length as indicated in ASAP specifications for each ASAP version.

##### RTC Req [615201](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_92F2wWkuEeWNkN4Z2J_4OQ): The legacy VistA system shall allow the user to utilize the renamed View/Edit ASAP Definitions [PSO SPMP ASAP DEFINITIONS] option to modify their local SPMP data elements for ASAP versions 4.2, 4.1, 4.0, and 3.0.

* + - **Note:** ASAP version 1995 will not be modified with this enhancement

##### RTC Req [615204](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_a3mBoWkwEeWNkN4Z2J_4OQ): The legacy VistA system shall allow the user to include a customized ASAP data element for inclusion in their SPMP message transmission following selection of an ASAP version.

##### RTC Req [615206](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_uZqBIWkyEeWNkN4Z2J_4OQ): The legacy VistA system shall allow the user to accept the standard, pre-defined value of the selected ASAP data element.

* + - **Note:** A standard value would be defined as the coded data element value without further end-user modification including designating a fixed value or using a Mumps (M) expression to further modify that value.

##### RTC Req [615207](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_5IBBQWkyEeWNkN4Z2J_4OQ): The legacy VistA system shall create a new field called “M SET EXPRESSION:” for the purpose of defining a Fixed Value or usage of an M expression to further modify the selected ASAP data element.

* + - **Note:** A fixed value will transmit the exact same information each time for that data element with each message.

##### RTC Req [615208](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_EmyxsWkzEeWNkN4Z2J_4OQ): The legacy VistA system shall truncate a customized data element to the number of characters entered by the user in the MAXIMUM LENGTH field.

##### RTC Req [615209](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_PyzXIWkzEeWNkN4Z2J_4OQ): The legacy VistA system shall restrict a user-entered Fixed Value to conform to the ASAP Data Type as noted in RSD ASAP version specifications.

##### RTC Req [615210](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_XRIw9GkzEeWNkN4Z2J_4OQ): The legacy VistA system shall allow the user to select a customization Requirement of Required, Optional, or Not Used.

* **Note:** An M Code expression may be used to further modify a data element such as appending a prefix or suffix to a known data element value. An example of its application could be the state of California requiring their PHA11 segment to populate with the appropriate data element such as DEA# but also be followed by the character “B”.

##### RTC Req [615211](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_2S4KsWkzEeWNkN4Z2J_4OQ):

##### RTC Req [615212](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F__qzjYWkzEeWNkN4Z2J_4OQ): The legacy VistA system shall supply a Section 508 compliant visual indicator that an ASAP Data Element has been customized by the site.

* **Note:** Asterisk or similar readable indicator should be used.

### RTC Epic Story [223778](https://server1.server2..domain:9443/ccm/web/projects/CA%20(CM)#action=com.ibm.team.workitem.viewWorkItem&id=223778https://server1.server2..domain:9443/ccm/web/projects/CA%20(CM)): As a VA SPMP System Administrator, I would like to create a non-standard ASAP data segment and/or data element so that I may confirm the specific state PDMP data requirements.

* RTC User Story [223785](https://server1.server2..domain:9443/ccm/web/projects/CA%20(CM)#action=com.ibm.team.workitem.viewWorkItem&id=223785&tab=com.ibm.team.workitem.tab.links): As a VA SPMP System Administrator, I would like to create a non-standard VA SPMP ASAP data segment, so I may conform to my state’s PDMP data requirements.

##### RTC Req [615391](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_yIeVsWt2EeWdSY9jJpsgnw): The legacy VistA system shall allow the user to create a new, custom ASAP Data Segment name with five or less alpha characters beyond the available ASAP standard data elements for versions 4.2, 4.1, 4.0, and 3.0.

* + - **Note:** The new Data Segment may be either a continuation of an existing segment name e.g. PHA or PAT or the generation of a not previously used segment name e.g. XYZ. New segments should be based on the ASAP specifications used for the site’s state PDMP.
  + RTC Req [615392](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_nncxgWt3EeWdSY9jJpsgnw): The legacy VistA system shall allow selection of the ASAP Data Segment Level from the list below:
  + MH - Main Header
  + PH – Pharmacy Header
  + PA – Patient Detail
  + RX – Prescription Detail
  + PT – Pharmacy Trailer
  + MT – Main Trailer
  + RTC Req [615393](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_86BXQWt3EeWdSY9jJpsgnw): The legacy VistA system shall allow the designate the custom Data Segment parent segment and position number within the ASAP message.
  + RTC Req [647261](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_AtEsZaNCEeWqJ5moPYrJvA): The legacy VistA system shallow allow the deletion of a custom Data Segment.

#### RTC User Story [223792](https://server1.server2..domain:9443/ccm/web/projects/CA%20(CM)#action=com.ibm.team.workitem.viewWorkItem&id=223792): As a VA SPMP System Administrator, I would like to create a non-standard VA SPMP ASAP data element, so I may conform to my state’s PDMP data requirements.

* + RTC Req [615394](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_x8TanGt5EeWdSY9jJpsgnw): The legacy VistA system shall require the user to identify a new Data Element number between 01 and 999 to suffix to a newly created ASAP Data Segment name.

##### RTC Req [615395](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_7rxwkWt5EeWdSY9jJpsgnw): The legacy VistA system shall restrict the user to the addition of sequential data element identification for a given segment.

* + - **Note:** The user must not skip a number between the new data element and the prior number. For example DSP13 🡪 DSP14 is acceptable; DSP13 🡪 DSP15 is not acceptable.
  + RTC Req [615396](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_Esm34Wt6EeWdSY9jJpsgnw): The legacy VistA system shall require the user to select the Data Element ASAP data types:
    - Alphanumeric
    - Numeric
    - Date
    - Time
    - Decimal
  + RTC Req [615397](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_OewucWt6EeWdSY9jJpsgnw): The legacy VistA system shall allow the user to specify MAXIMUM LENGTH for a customized data element up to 999 characters.
  + Note: The ASAP specifications for version 4.2 indicate that the maximum length based on the field type is the following:
    - Alphanumeric – 255 Characters
    - Numeric – 255 Characters
    - Date – 8 Numeric Characters
    - Time – 6 Numeric Characters
    - Decimal – 3 Characters

##### RTC Req [615398](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_af0FgWt6EeWdSY9jJpsgnw): The legacy VistA system shall allow the user to enter a fixed value for a user-defined data element in the M SET EXPRESSION field.

* + - **Note:** Customized mapping to existing VA files and fields is considered out of scope at this time for the SPMP Enhancement project

##### RTC Req [615399](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_iy5WAWt6EeWdSY9jJpsgnw): The legacy VistA system shall allow the user to enter an M expression for a user-defined data element in the M SET EXPRESSION field.

* + RTC Req 647431: The legacy VistA system shall allow the deletion of a custom Data Element.
  + RTC Req 647432: The legacy VistA system shall allow the return to a default, non-customized ASAP version.

#### RTC User Story [223802](https://server1.server2..domain:9443/ccm/web/projects/CA%20(CM)#action=com.ibm.team.workitem.viewWorkItem&id=223802): As a VA SPMP System Administrator, I would like to modify the delimiters used in the existing transmission of ASAP data elements so that I may avoid messaging failures.

#### RTCReq [615400](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_VWj3QWt7EeWdSY9jJpsgnw): The legacy VistA system shall allow the ASAP End of Segment Control Character to be user definable to allow for vendor specific line feed processing.

* **Note:** Some fields include embedded carriage return (CR) and line feed (LF) characters. Vendor Atlantic Associates, Inc. (AAI) requires a change to the current CR/LF processing. This specification enhances the system to have acceptable CR/LF processing for all vendors. Although the ASAP standard does not require line feed returns, VA processing requires that the VA message be split into multiple lines.

#### RTC Req [619503](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_RfeLgW6dEeWdSY9jJpsgnw): The legacy VistA system shall allow the ASAP Segment Terminator Character to be user definable.

#### RTCReq [615401](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_cnfHMmt7EeWdSY9jJpsgnw): The legacy VistA system shall allow the ASAP Data Element Delimiter character to be user definable.

* + **Note:** The use of the asterisk (\*) field separator character conforms to the ASAP standards in use.

#### RTC Epic Story [223807](https://server1.server2..domain:9443/ccm/web/projects/CA%20(CM)#action=com.ibm.team.workitem.viewWorkItem&id=223807): As a VA SPMP System Administrator, I would like to be able to upgrade from my current ASAP version to another ASAP version, so I may meet my state’s ASAP versioning requirements.

#### RTC User Story [223808](https://server1.server2..domain:9443/ccm/web/projects/CA%20(CM)#action=com.ibm.team.workitem.viewWorkItem&id=223808&tab=com.ibm.team.workitem.tab.links): As a VA SPMP System Administrator, I would like to clone an existing ASAP Version and create a new version so that I may conform the specific state PDMP data requirements.

#### RTC Req [615402](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_o3I6-Gt7EeWdSY9jJpsgnw): The legacy VistA system shall allow the selection of an available ASAP version to be copied.

* RTC Req [615403](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_u3JVkWt7EeWdSY9jJpsgnw): The legacy VistA system shall allow the user to supply a name to the newly copied ASAP version with up to 10 alphanumeric characters and a decimal.
* RTC Req [647978](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_Gpa0VKQZEeWqJ5moPYrJvA): The legacy VistA system shall prompt the user to select to copy an existing default ASAP version or an ASAP version that contains existing customized data elements and/or segments.
  + **Note:** The clone action will copy over the entire ASAP messaging configuration for that version. Selecting individual data segments and/or elements to be cloned will not be an option. Once the cloned version has been established, the user may go in and further customize the new ASAP version at the data segment and element level.
* RTC Req [647979](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_MNtjUaQZEeWqJ5moPYrJvA): The legacy VistA system shall not prompt the user to select between an ASAP standard version or a customized version if copying from a customized ASAP version.
  + **Note**: Once an ASAP version (standard or customized) has been cloned, the new ASAP version is then considered customized. This renders the need to prompt the user to select between standard and customized version to no longer be necessary.
* RTC Req [615404](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_3Vs2S2t7EeWdSY9jJpsgnw): The legacy VistA system shall make any standard ASAP Data Elements from the ASAP version being copied into customized data elements in the new ASAP version.
  + - **Note:** The due to the usage of a newer ASAP version, the end-user must re-apply any site-tailored data elements to the newly cloned version.
  + [RTC Req 648590](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_iRw2IaXWEeWqJ5moPYrJvA): The legacy VistA system shall allow deletion by the user of an entire ASAP customized version.

### SPMP ASAP Data Element Formatting Enhancement

### RTC Epic Story [223809](https://server1.server2..domain:9443/ccm/web/projects/CA%20(CM)#action=com.ibm.team.workitem.viewWorkItem&id=223809): As a VA SPMP System Administrator, I would like to enhance existing ASAP Data Element logic so that I may supply my state PDMP more accurate information.

#### RTC User Story [223816](https://server1.server2..domain:9443/ccm/web/projects/CA%20(CM)#action=com.ibm.team.workitem.viewWorkItem&id=223816): As a VA SPMP System Administrator, I would like to modify the logic in which specific ASAP Data Elements are determined so that I may provide complete information to my state PDMP.

**Note**:The phone number field (PRE08) is a situational field that may contain the entire 10-digit phone number of the provider or just the extension. In cases where it is just the extension, the system shall determine the 10-digit phone number for this field. As an example: If less than 10 characters, obtain a different phone number by identifying the provider’s primary division (a property of file 200), getting that division’s station number (such as 528GA), finding a matching entry in PHARMACY SITE file 59 and substituting the phone number of that entry. Developers should investigate if there are other fields found in VistA that is more suitable representation of the pharmacy’s “main phone number.”

#### RTC Req [615405](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_ZJgdEWt-EeWdSY9jJpsgnw): The legacy VistA system shall determine the correct provider phone number if the phone number field (PRE08) contains less than 10 digits.

* RTC Req [647980](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_di2i0aQcEeWqJ5moPYrJvA): The legacy VistA system shall access File #200, Office Phone field .132 and determine if a viable 10-digit provider phone number for use in the PRE08 Data Element.
* RTC Req [647981](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_r72otKQcEeWqJ5moPYrJvA): If a 10-digit provider phone number is not available in the legacy VistA system File #200, the legacy VistA system shall use the provider’s default Institution in the Institution File #4, sub-file Contact (multiple) to determine a viable 10-digit provider phone number for use in the PRE08 Data Element.
* New Req [647982](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_BGFx8KQdEeWqJ5moPYrJvA): If a 10-digit provider phone number is not available in the legacy VistA system associated to the provider’s default Institution, the legacy VistA system shall examine the provider’s non-default institution(s) and will use the first viable 10-digit phone number in the PRE08 Data Element  and exhaust remaining institution phone numbers.
* RTC Req [647983](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_OJUXkaQdEeWqJ5moPYrJvA): If a 10-digit provider phone number is not available in the legacy VistA system Institution File #4, sub-file contact (multiple), the legacy VistA system shall use the 10-digit Pharmacy Phone number associated to the filled prescription in the PRE08 Data Element.

#### RTCReq [615407](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_z-HdIWuAEeWdSY9jJpsgnw): The legacy VistA system shall use the Drug Enforcement Agency (DEA) number associated with the pharmacy division's NPI institution to populate the PHA 03 DEA Number data element in the case where the DEA number of the pharmacy of a hospital and the hospital DEA number do not coincide.

* + - **Note:** This specification will allow more accurate tracking when DEA numbers of hospitals and pharmacies differ.

#### RTC User Story [223820](https://server1.server2..domain:9443/ccm/web/projects/CA%20(CM)#action=com.ibm.team.workitem.viewWorkItem&id=223820&tab=com.ibm.team.workitem.tab.links): As a VA SPMP System Administrator, I would like to modify the field length to meet the character length requirements so I may conform to my state’s PDMP data requirements.

* RTC Req [615418](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_vHvf4WuHEeWdSY9jJpsgnw): The system shall increase the size of the STATE SFTP SERVER IP ADDRESS field under VistA option View/Edit SPMP State Parameters [PSO SPMP STATE PARAMETERS] to the maximum allowable length of 60 characters for that field.
* RTC Req [615419](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_zo-2cWuHEeWdSY9jJpsgnw): The system shall increase the size of the STATE SFTP SERVER USERNAME field under VistA option View/Edit SPMP State Parameters [PSO SPMP STATE PARAMETERS] to the maximum allowable length of 50 characters for that field.
* **Note:** The system currently accepts server IP and username data input. However, the fields are not big enough to contain the username provided by at least one vendor. This specification requires that both fields are big enough to contain the maximum allowable lengths for the server IP and username data.

#### RTC Req [615420](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_oqvx0WuIEeWdSY9jJpsgnw): The system shall ensure that field IS02 (Information Source Entity Name) does not exceed the maximum length of 60 characters.

#### **Note:** According to the ASAP standard, the IS02 (Information Source Entity Name) field has a maximum length of 60 characters. This specification requires the system to adhere to this maximum length.

### SPMP Security Enhancement

#### RTC Epic Story [223822](https://server1.server2..domain:9443/ccm/web/projects/CA%20(CM)#action=com.ibm.team.workitem.viewWorkItem&id=223822)**:** As a VA SPMP System Administrator, I would like to update the existing VA SPMP network and message security capabilities so that I may prevent a security incursion during the transmission of ASAP Data Elements to my state PDMP.

#### RTC User Story [223823](https://server1.server2..domain:9443/ccm/web/projects/CA%20(CM)#action=com.ibm.team.workitem.viewWorkItem&id=223823&tab=com.ibm.team.workitem.tab.links): As a VA SPMP System Administrator, I would like to update the VA SPMP security key functionality so that I may prevent a data breach during the transmission of ASAP Data Elements to my state PDMP.

#### RTC Req [628908](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_3E1RgXmZEeW77MePI7hOsg): The legacy VistA system shall create a new SPMP option called Secure Shell (SSH) Keys [PSO SPMP SSH KEY MANAGEMENT]

* RTC Req [628909](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_FvdS4XmaEeW77MePI7hOsg): The legacy VistA system shall supply the user with the options to View an existing Public SSH Key, Create a new SSH Key Set (Pair), Delete an existing SSH Key Set (Pair) or access help information regarding SSH Key generation.

#### RTC Req [615422](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_q0poIWuJEeWdSY9jJpsgnw): The Linux-hosted version of the application shall have the ability to create Secure Shell (SSH) keys in either the Rivest-Shamir-Adleman (RSA) Encryption or Digital Signature Algorithm (DSA) Encryption formats.

**Note:** The Linux-hosted version of the application currently has no scripted or automated way to create SSH keys. This specification enhances the system to have a well-defined way to create SSH keys for use by Linux-hosted systems.

* RTC Req [628910](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_BeYp03mbEeW77MePI7hOsg): The legacy VistA system shall require the entry of the user’s current encrypted Signature Code to create or delete an SSH key set (pair).

#### RTC Req [615423](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_x9-bQWuJEeWdSY9jJpsgnw): The legacy VistA system shall update the silent SSH command that adds IP addresses to the list of known hosts to always require the port number parameter.

* + **Note:** The system does not properly update the local known hosts file in all cases. Requiring the port number parameter during the silent SSH command will ensure that the local known hosts file is updated in all cases.

##### RTC Req [619508](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_C_5RoW6fEeWdSY9jJpsgnw): The legacy VistA system shall supply a new User key called PSO SPMP ADMIN to access specified SPMP options.

##### RTC Req [615424](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_AZBTEWuLEeWdSY9jJpsgnw): The legacy VistA system shall require the PSO SPMP ADMIN [User] key to edit using the View/Edit ASAP Definitions [PSO SPMP VIEW ASAP DEFINITIONS], Manage Secure Shell (SSH) Keys [PSOP SPMP SSH KEY MANAGEMENT], and View/Edit SPMP State Parameters [PSO SPMP STATE PARAMETERS] options.

* + **Note:** The functionality of the PSO SPMP ADMIN key is applied to only the three options listed in the requirement.  (PSO SPMP VIEW ASAP DEFINITIONS], Manage Secure Shell (SSH) Keys [PSOP SPMP SSH KEY MANAGEMENT], and View/Edit SPMP State Parameters [PSO SPMP STATE PARAMETERS]). The remaining options under the SPMP menu will be controlled by access to the Supervisor Menu Options and actions should be left available to those without the PSO SPMP ADMIN key.

##### RTC Req [668796](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_6U-rcNGwEeWyzcuKtZkkpA): For Appriss AWARxE sites, the legacy VistA system shall automatically reformat via the post-install to include the @ symbol in the STATE SFTP SERVER IP ADDRESS and STATE SFTP SERVER USERNAME field configuration under the View/Edit SPMP State Parameters [PSO SPMP STATE PARAMETERS] option.

### SPMP Troubleshooting Enhancement

#### RTC Epic Story [223827](https://server1.server2..domain:9443/ccm/web/projects/CA%20(CM)#action=com.ibm.team.workitem.viewWorkItem&id=223827): As a VA SPMP System Administrator, I would like to improve the troubleshooting tools that I may more easily determine the success or failure of the transmission of ASAP Data Elements to my state PDMP.

#### RTC User Story [223828](https://server1.server2..domain:9443/ccm/web/projects/CA%20(CM)#action=com.ibm.team.workitem.viewWorkItem&id=223828&tab=com.ibm.team.workitem.tab.links): As a VA SPMP System Administrator, I would like to update the existing VA SPMP troubleshooting functionality so that I may take necessary corrective action prior to or following the transmission of ASAP Data Elements to my state PDMP.

#### RTC Req [615428](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_HNs2cWuMEeWdSY9jJpsgnw): The Virtual Memory System (VMS)-hosted application shall include the log file for a failed transmission in a MailMan message generated to the PSO SPMP NOTIFICATIONS mail group.

* + **Note:** The VMS application does not retain log files long enough for review at the Operating System (OS) level. (The log files should not be retained at the OS level.) Supplying the log file in a MailMan message will allow the user to retain the information for a longer period of time and delete the information as the transmission issue is resolved.
* RTC Req [615429](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_Ohvr1WuMEeWdSY9jJpsgnw): The Linux-hosted version of the application shall correctly process and indicate whether the transmission was successful or failed.

#### **Note:** In PSO\*7\*408, the Linux-hosted version of the application incorrectly processes the transmission log file when reporting a successful or failed transmission (failed transmissions were reported as successful). This specification will correct the transmission log file processing logic, so proper status will be reported when a batch is sent from the background.

#### RTC Req [615431](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_ZO6ZK2uMEeWdSY9jJpsgnw): The legacy VistA system shall enhance the file upload processing to have options to upload and rename files or upload files directly.

* + **Note:** When transmitting files to external systems, sometimes the external system processes the file before the transmission is complete. This specification enhances the system to upload files with a temporary name and rename files when the transmission is complete. This will ensure that file transmissions are complete before external systems process those files. The system shall also have the ability to upload files directly, without renaming files.

#### RTC Req [615432](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_e9oPcWuMEeWdSY9jJpsgnw): The system shall make the PSO SPMP Notification mail group public and redistribute it.

* + **Note:** The PSO SPMP Notification mail group does not function properly as a private group. This specification requires this mail group to be public, so it will function as expected.
* RTC Req [628912](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_vIciYXmcEeW77MePI7hOsg): The legacy VistA system shall update the access to read-only for File 58.41 SPMP STATE PARAMETERS and 58.42 SPMP EXPORT BATCH allowing for a FileMan report to be run on these files
  + **Note:** In PSO\*7\*408, these two files were both locked down by @ access that prevented a FileMan report to be run.

### SPMP Logic Updates

* RTC Epic Story [261490:](https://server1.server2..domain:9443/ccm/web/projects/CA%20(CM)#action=com.ibm.team.workitem.viewWorkItem&id=261490ttps://server1.server2..domain:9443/ccm/web/projects/CA%20(CM)) As a VA SPMP System Administrator, I would like update the existing logic originally released with PSO\*7\*408 so that may reduce the error rate of SPMP data transmission to the states.
* RTC User Story # [261492](https://server1.server2..domain:9443/ccm/web/projects/CA%20(CM)#action=com.ibm.team.workitem.viewWorkItem&id=261492): As a VA SPMP System Administrator, I would like to enhance the SPMP logic associated to which NDC number is transmitted with a Void prescription.
* RTC Req # [648281](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_1IPVdaRAEeWqJ5moPYrJvA): The legacy VistA system shall locate and utilize the NDC from the most recent SPMP prescription fill transmission and utilize the NDC from that record to replace the NDC value in the Void record if the NDC is different.
* **Note:** When a medication is returned to stock and a new NDC has been issued for that medication between the original and subsequent fills, currently the user must go into the state’s portal and manually delete the original fill otherwise it will continue to display on the state’s portal that the patient did receive the original medication fill when in fact they did not.

### State-Specific Specifications

The State-Specific Specifications were part of the initial draft version of the RSD. They are being maintained in this document for the purpose of historical references that fed into the overall technical design solution. The proceeding functional requirements shall supply the capability to satisfy the business requirements identified in this State-Specific section.

The discovery of the state-specific requirements specifications focused on nine states: California (CA), Illinois (IL), Indiana (IN), Massachusetts (MA), Michigan (MI), Nebraska (NE), New York (NY), Texas (TX), and Wyoming (WY). The sections below describe the state-specific requirements specifications in detail.

#### The system shall implement a PDMP data transmission to CA.

##### Data transmissions shall adhere to requirements outlined in state submitter guides.

##### The system shall populate field PHA11 with an appropriate value such as the DEA# followed by the character ‘B.’

**Note:** Multiple states require additional information about the dispensing pharmacist in the Pharmacy Header (PHA) segment of the ASAP standard. CA is managed by vendor AAI. Prescription monitoring adheres to ASAP 4.1 version.

#### The system shall implement a PDMP data transmission to IL.

##### Data transmissions shall adhere to requirements outlined in state submitter guides.

##### The system shall populate the PHA11 (contact name) field with the pharmacy contact number.

**Note:** Multiple states require additional information about the dispensing pharmacist in the PHA segment of the ASAP standard. IL is managed by vendor AAI. Prescription monitoring adheres to ASAP 4.1 version.

#### The system shall implement a PDMP data transmission to IN.

##### Data transmissions shall adhere to requirements outlined in the Indiana Prescription Monitoring Program Data Reporting Manual.

##### The system shall populate field DSP17 (Date Sold) per the ASAP standard.

##### The system shall populate field IS03 (Message) on zero reports per the ASAP standard.

##### The system shall populate field IS01 (Unique Information Source ID) with the phone number per the ASAP standard.

Note: Per specification review with Indiana INSPECT PMP representatives, IN may be able to accept the VA standard transmission for the IS01 field, which is “VA” concatenated with the dispensing pharmacy site number. If phone number is required, functionality in the SPMP Enhancement patch PSO\*7\*451 will resolve.

**Note:** Prescriptions can only be uploaded manually to IN PDMP system: Indiana Scheduled Prescription Electronic Collection and Tracking (INSPECT). To date there has not been a successful transmission from our VA sites to INSPECT. IN is managed by vendor Optimum Technology (OTECH). OTECH and Appriss are currently merging but will continue to manage their respective clients for the foreseeable future. Prescription monitoring adheres to ASAP 4.2 version.

#### The system shall implement a PDMP data transmission to MA.

##### Data transmissions shall adhere to requirements outlined in the MA Prescription Monitoring Program (PMP) Pharmacy Data Entry and Data Submitter’s Guide Utilizing ASAP 4.2. Additional information is available in the MA PMP Pharmacy Data Entry and Data Submitter’s FAQ Utilizing ASAP 4.2.

##### When applicable as detailed in the submitter guide above the system shall populate the following:

* PAT02: ID Qualifier: Shall be 99 for Other.
* PAT03: ID of Patient

Note: The MA PMP does not accept a patient Social Security Number as a unique identifier. Because other government issued identification numbers are not consistently captured within the VistA system, per SPMP Workgroup Meeting with MA PMP representatives and AAI vendor representative on December 8, 2015 (and again with MA PMP representatives and new Appriss vendor representatives on February 16, 2016) this Data Element PAT03 shall be populated with the VA Internal Control Number (ICN).

* AIR 03: Issuing Jurisdiction (of AIR05 identification [ID]), with code for Other in the List of Jurisdictions “99.”
* AIR 04: ID Qualifier of Person Dropping Off or Picking Up Prescription (Rx)

Note: Per SPMP Workgroup Meeting with MA PMP representatives and AAI vendor representative on December 8, 2015 (and again with MA PMP representatives and new Appriss vendor representatives on February 16, 2016) this Data Element AIR04 shall be populated with 99 for Other

* AIR 05: ID of Person Dropping Off or Picking Up Rx (Customer ID).

Note: Per SPMP Workgroup Meeting with MA PMP representatives and AAI vendor representative on December 8, 2015 (and again with MA PMP representatives and new Appriss vendor representatives on February 16, 2016) this Data Element AIR05 shall be populated with “VADELIVERY”

* AIR 06: Relationship of Person Dropping Off or Picking Up Rx; Use only the codes "01" for the patient or "99" for any other person.

##### When submitting data utilizing the “deliveries exception,” the system shall populate the relevant ASAP fields as follows:

* AIR03 [Issuing Jurisdiction of the Customer ID] – Leave blank.
* AIR04 [ID Qualifier] – Leave blank.
* AIR05 [Customer ID] - Enter “delivery.”
* AIR06 [Relationship of the customer to the patient] – Leave blank.

##### The system shall populate the PHA11 (Contact Name) field with the pharmacy contact number.

##### The system shall populate the PAT 17 (Phone Number) field with all 9’s if the patient does not have a phone number.

**Note:** This requirement was revealed in the SPMP Workgroup meeting with MA and Appriss representatives on February 16, 2016

##### The system shall populate the PAT21 (Patient Location) field.

**Note**: MA is managed by vendor AAI until May 2016. Appriss will be the replacement vendor with testing starting April 2016. Prescription monitoring adheres to ASAP 4.2 version.

#### The system shall implement a PDMP data transmission to MI.

##### Data transmissions shall adhere to requirements outlined in the MI PMP Pharmacy Data Entry and Data Submitter’s Guide Utilizing ASAP 4.2.

##### The system shall populate IS01 with the telephone number of the pharmacy

##### The system shall populate IS02 with the pharmacy name.

**Note**: MI is managed by vendor Michigan Automated Prescription System (MAPS). Prescription monitoring adheres to ASAP 4.1 version.

#### The system shall implement a PDMP data transmission to NE.

**Note**: NE prescription data is currently managed by vendor Surescripts. However, there is a plan to move to vendor DrFirst starting in March 2016 with an estimated implementation of August 2016. NE currently does *not* use the ASAP standard for prescription monitoring. Currently the system accepts data in National Council for Prescription Drug Programs (NCPDP) SCRIPT format. This system is part of a Health Information Exchange (HIE) so data transmission requirements will not follow other state implementation guidelines.

#### The system shall implement a PDMP data transmission to NY.

##### Data transmissions shall adhere to requirements outlined in the Submitter’s Guide to Electronic Data Transmission for the New York State PMP data collection tool.

##### The system shall send the Date Sold data in field DSP17 (Date Sold), in the correct format.

**Note**: NY Department of Health (NYDOH) manages their prescription data. The system shall utilize Universal Public Health Node (UPHN) system called UPHN Lite for transmission of data to NY. Prescription monitoring adheres to ASAP 4.2 version. To date there has not been a successful transmission from the SPMP system.

#### The system shall implement a PDMP data transmission to TX.

##### Data transmissions shall adhere to requirements outlined in the Texas Prescription Program Data Collection Manual.

##### The system shall populate ASAP fields DSP19, DSP20 and segments AIR1 and AIR2.

##### The system shall populate field DSP17 (Date Sold).

##### The system shall populate field IS03 date range on every report per the ASAP standard.

##### The system shall populate field IS01 (Unique Information Source ID) with the phone number per the ASAP standard.

##### The system shall populate the control number data from written C2 prescriptions in the AIR02 (State Issued Rx Serial Number) field per the ASAP standard.

##### The system shall report C2 prescriptions with field DSP12 (Transmission Form of Rx Origin Code) = ‘05’ for electronic prescription, along with either field below:

* DSP19 (RxNorm Code)
* AIR02 (State Issued Rx Serial Number)

**Note**: TX is managed by vendor OTECH. OTECH and Appriss are currently merging but will continue to manage their respective clients for the foreseeable future. Prescription monitoring adheres to ASAP 4.2 version.

#### The system shall implement a PDMP data transmission to WY.

##### Data transmissions shall adhere to requirements outlined in state submitter guides.

##### The system shall populate the PHA11 (contact name) field with the pharmacy contact number.

**Note:** Multiple states require additional information about the dispensing pharmacist in the PHA segment of the ASAP standard. WY is managed by vendor AAI.

### Apportioned Requirements

Apportioned requirements are specifications that are not included in the scope of the current SPMP Enhancement effort but should be considered for future enhancements of the SPMP module.

#### RTCReq [615406](https://rm.rational.oit.domain:9443/rm/web#action=com.ibm.rdm.web.pages.showArtifact&artifactURI=https%3A%2F%2Frm.rational.oit.domain%3A9443%2Frm%2Fresources%2F_diP-8Wt-EeWdSY9jJpsgnw): The legacy VistA system shall use the following fields in VistA for determining dependent eligibility for sharing of data for: 1) dependents of veterans and 2) dependents of active duty service members.

#### **Note:** The NASPER legislation allows transmission of data about “Veterans and their Dependents.” Today the system does not use a mechanism to differentiate between dependents of veterans and Dependents of Active Duty Service Members (ADSMs). Consequently no information is shared on any dependents. Research into the VistA registration and eligibility files is required to determine if an identifier exists that would be able to differentiate the two types of dependents and include dependents of Veterans while continuing to exclude dependents of ADSMs. The SPMP Enhancement Workgroup meeting conducted on October 20, 2015 with VA Legal and VA Eligibility representatives confirmed that with the confines of the legacy VistA system, there is not currently a method to segregate just Veteran dependents in their entirety. Adding to this conversation, the definition of “dependent” is not entirely clear. The recommendation was to pursue a legislative change to encompass all those receiving qualifying SPMP prescriptions within the VA to be eligible to forward that data to their state’s PDMP. During the SPMP Enhancement IPT meeting on October 26, 2015, it was noted that a legislative change would not be pursued at this time and the associated requirement will be recognized as an apportioned requirement.

* RTC User Story # TBD: As a VA SPMP System Administrator, I would like to monitor modifications to the ASAP messaging parameters and from a default value to a customized value.
* **Note:** Audit information will be viewable via a FileMan report.
* RTC Req # TBD: The legacy VistA system shall audit and record when an M expression is entered or updated into the ELEMENT VALUE (.08) field.
  + **Note:** DD = Element Value
* RTC Req # TBD: The legacy VistA system shall audit and record when a SSH Public Key field (200) is altered.
* RTC Req # TBD: The legacy VistA system shall audit and record when a SSH Private Key field (100) is altered.
* RTC User Story # TBD: As a VA SPMP System Administrator, I would like a utility that will allow me to export and import an ASAP version to and from external VistA instances so I will not have to manually customize each site within the same state.
* **Note:** This story originated from SPMP Enhancement Workgroup meeting on 01/26/16. There is a manual workaround, but there was confirmation that a utility would reduce the burden to make the process of recreating the same customizations at each site within a state.
* RTC Req # TBD: The legacy VistA system shall allow an ASAP version to be written to a file.
* RTC Req # TBD: The legacy VistA system shall allow an ASAP version to be imported from a file.
* **Note:** For future elaboration considerations - Would there need to be a requirement to check if the naming convention of the imported file does not match an existing ASAP version name (and give the user the option to rename if it does)? Is there an alternate design that may be more user-friendly such as using VistA MailMan to send/receive ASAP versions?
* RTC Req # TBD: The legacy VistA system shall allow transmission of a patient’s data to multiple PDMP’s based on the patient’s address.
  + **Note:** This specification was generated upon reviewing the 2016 specifications for the Massachusetts (MA) PDMP specifications. If a patient resides in a different state but is in the MA database, they would like their prescription data for dispensed controlled substances from other states to be forwarded to the MA PDMP as well.
* RTC Req # TBD: The legacy VistA system shall generate and transmit a “zero report” to a state PDMP if no prescriptions met the criteria to be transmitted to the states’ PDMP.
  + **Note:** The zero report specifications should be examined on a state-by-state (or vendor-by-vendor) basis. Recommend that sending a zero report be a parameter in the event that a state may not be able to support a zero report transmission.
* RTC Req # TBD: The legacy VistA system shall include functionality to retrieve and populate RxNorm data into the appropriate ASAP data elements
  + **Note:** This specification was generated upon reviewing the 2016 specifications for the MA PDMP specifications about DSP18 and DSP19 requirements. They are requesting Rx Norm data to be transmitted. The SPMP PBM Business Owner identified during the 2/16/2016 SPMP Workgroup meeting, that the VA is trying to get to the point where we have RxNorm mappings and we have enough to provide an Rx Concept Unique Identifier (CUI).

## Graphical User Interface Specifications

Not applicable

## Multi-divisional Specifications

Not applicable

## Performance Specifications

Section 3.9 remains unchanged from the previous enhancement PSO\_7\_408.

## Quality Attributes Specification

Section 3.10 remains unchanged from the previous enhancement PSO\_7\_408.

## Reliability Specifications

Section 3.11 remains unchanged from the previous enhancement PSO\_7\_408.

## Scope Integration

There is a potential that Nebraska requirements will have a dependency on HIE interfaces at the state level.

## Security Specifications

Section 3.13 remains unchanged from the previous enhancement PSO\_7\_408.

## System Features

For this release please refer to Section 3.6.

## Usability Specifications

Not applicable

# Non Functional Requirements

Section 4.0 remains unchanged from the previous enhancement PSO\_7\_408.

# Purchased Components

Analysis may determine that the most effective solution to ensure security on private key (See Requirement 3.6.1.3.) may require purchasing of a third party software.

# Estimation

The estimate for the SPMP Enhancement Projectis complete. The functional size of the project is 93FP (Function Points).

The detailed FP Estimate was recorded in a FP Excel Workbook, stored in the TSPR notebook for this project.  (Please note that all the graphs below are created in the FP Excel Workbook.)

Here is the link: <http://domain.ext/warboard/anotebk.asp?proj=1849&Type=Active>

Input parameters to the estimate are:

Start Date: 9/8/15

Development Type: Enhancement

Development Methodology: Agile

Project Size (FP): Min = 48, Expected = 64, Max = 83

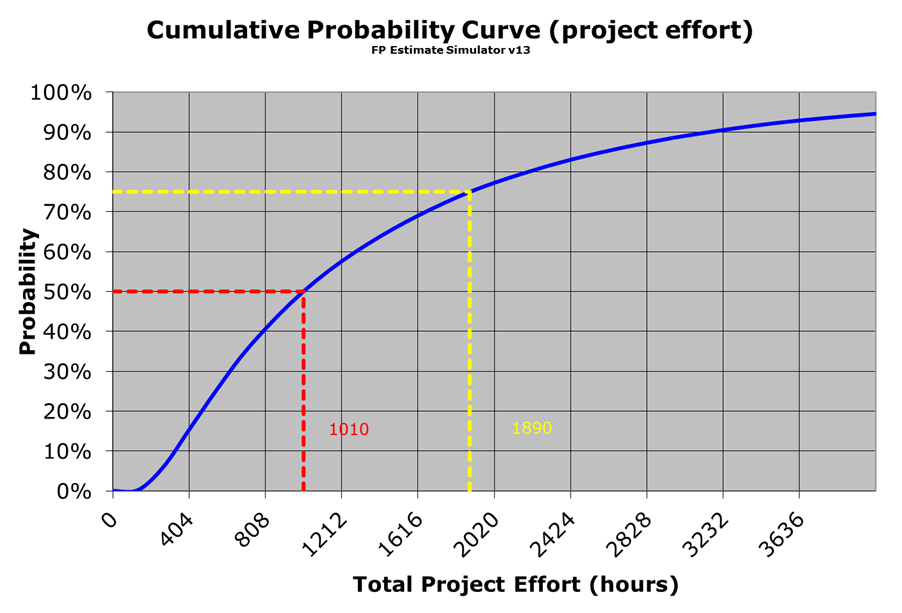
A top-down, parametric approach, was employed using the functional size developed from the RSD and SDD.  This is a quantitative method that uses real VA historical project data as the basis for the forecast and is influenced by the input parameters.  Should any of these inputs change, this estimate would need to be reevaluated.

Based on VA project history the optimum staffing for this project is:

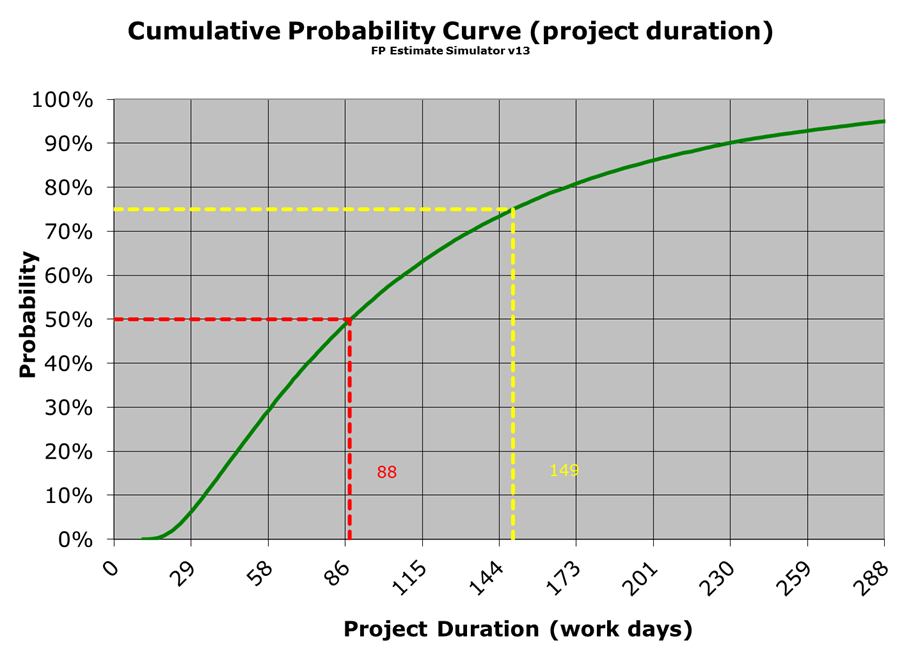
Min = 4, Expected = 5, Max = 7.

Note that staffing includes individuals that are directly involved with delivery of the functionality to production.  Roles included: Analysts, Designers, Developers, Testers, Project Manager.  Roles not included: Consulting Subject Matter Experts (SMEs), Production Support, and the Application Users.

Now, we will focus on the effort estimate.  The curve below allows the project to plan to a specific level of effort, provided that the also accepts the associated risk.  For example, there is a 50% probability that this project will consume no more than 1010 hours of Total Project Effort (shown in the graph below as the dotted red line).  For some projects, this is too much risk to take on, so the team opts to budget to a higher confidence level, keeping the difference as a Risk-Adjusted Budget Request.



Finally, we will focus on the project’s duration estimate.  The curve below allows planning to a specific duration, provided that the project also accepts the associated risk.  For example, there is a 50% probability that this project will complete in no more than 88business days (shown in the graph below as the dotted red line). If this doesn’t match the stakeholders risk tolerance for the project, the team may opt to plan around a higher confidence.



# Approval Signatures

REVIEW DATE: <date>

SCRIBE: ,

Signed:

/es/

Integrated Project Team (IPT) Chair – Date

/es/

Business Sponsor – Date

/es/

IT Program Manager – Date

/es/

Project Manager – Date

# Appendix A: Vendor/State Status

States suffixed with an asterisk (\*), are the states that requested the enhancements contained within this requirements document.

| Vendor | States | | System is Resilient | | System is FIPS 140-2 compliant | | Contact | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Atlantic Associates, Inc. (AAI) | | California,\* Illinois\*, Massachusetts\*, Wyoming\* | | Yes | | No.  The information we collect does not include health and/or diagnosis code information, insurance information, no social security numbers, no credit card numbers or banking information.   1. Password protection for files on AAI’s computers and servers. 2. Encrypted, daily backups. 3. Limited access area (locked) for storage and processing of media data.    1. All removable media and paper claim forms from submitters are destroyed each month, after all files are processed. This information will be stored in a locked container. A qualified third party is contracted to pick up and destroy the contents. AAI obtains a ‘Certificate of Destruction’ each time this occurs. 4. Nondisclosure agreement from all employees designated to work on the program. 5. Only personnel required to access data will have permissions to do so.   All AAI computers and servers are behind a firewall, with the most current content filters and intrusion prevention available. | | , Project Manager, Atlantic Associates, Inc., Ph: (800) 539-3370, |
| Appriss\*  Optimum Technology (OTECH)  \*Appriss acquired OTECH in 2015 | Texas\*, New Mexico, Tennessee, Virginia, Connecticut, Pennsylvania\*\*, Massachusetts\*\*\*,Indiana, Arizona, Iowa, Louisiana, New Jersey, Rhode Island, Ohio, Vermont, Guam Note: Guam Rx are issued by the Honolulu, HI facility and there is not a separate pharm division; VA SPMP is not sending data to the Guam PMP. \*Texas will be transitioning to Appriss AWARxE in August/Sept 2016  \*\*Pennsylvania will transitioning to Appriss AWARxE; timeline TBD  \*\*\*Massachusetts will be transitioning to Appriss AWARxE in May 2016. | | Yes | | Schliesman is in contact with Vendor regarding FIPS 140-2 compliance. | | ,, state-specific e-mail TXRxReport@ otech.com  ---------------------------  Client Relationship Manager  Appriss, Inc  10401 Linn Station Rd.  Ste. 200  Louisville, KY 40223  Office: 502-815-5656  Cell: 502-553-6790 | |
| Appriss  AWARxE | Idaho, North Dakota,South Dakota, Kansas, Mississippi, Nevada, Alaska, South Carolina | | Yes | | Schliesman is in contact with Vendor regarding FIPS 140-2 compliance.  Appriss is actively working towards FIPS 140-2 compliance. Risk Based Decision (RBD) document #598, valid through September 2016 is available for ESCCB ticket requests. | | , , FIPS140 contacts: , , ,  Client Relationship Manager  Appriss, Inc  10401 Linn Station Rd.  Ste. 200  Louisville, KY 40223  Office: 502-815-5656  Cell: 502-553-6790 | |
| Michigan Automated Prescription System | Michigan\* | | Yes | | Yes | | ,  Departmental Analyst,  State of Michigan,  Department of Licensing and Regulatory Affairs,  Bureau of Professional Licensing – Legal Affairs Division  Michigan Automated Prescription System  Ph: (517) 373-1737  Fax: (517) 241-5072  [BPL-MAPSInfo@michigan.gov](mailto:BPL-MAPSInfo@michigan.gov)  [www.michigan.gov/mimapsinfo](http://www.michigan.gov/mimapsinfo) | |
| Montana Interactive | Montana | | No response to date. | | Yes | |  | |
| New York Department of Health (NYDOH) | New York\* | | Awaiting response | | Yes | | , M.S., Program Research Specialist, Ph: 1-866-811-7957, | |
| Ohio Automated Rx Reporting System (OARRS) | Ohio | | Yes | | No | | ,   , | |
| Applied Machine Intelligence, LLC (AMHTECH) - Product is RxDataTrack. | West Virginia | | No information provided. | | No response to date. | | , 304-720-2246(mobile), 304-552-1589 (office) | |
| Health Information Design (HID) - Product: RxSentrys | Colorado, Arkansas, Kentucky, North Carolina, Oklahoma, Hawaii, Oregon, Washington, Minnesota, Wisconsin, Alabama, Florida, Georgia, Delaware, Maine, Maryland, New Hampshire | | Yes. | | No | | ,  Contact HID by e-mail at kypdmp@hidinc.com;  OR  Call the HID Help Desk at 855-263-6402.  PDMP Client Manager  Prescription Drug Monitoring Program  Health Information Designs, LLC  (800)225-6998 ext 3107  (334)321-0323 direct line | |
| Nebraska | Nebraska | | NA – They do not utilize the ASAP standard and are in the process of moving to a new vendor. | | NA | | VA:, NeHII:, [dbass@nehii.org](mailto:dbass@nehii.org), Chief Exec officer, 402-981-7664 | |
| Utah Controlled Substance Database Program (CSDP) | Utah | | Yes | | Yes | | , DTS IT Manager, Dept of Labor/Dept of Commerce, 801-558-3604 | |

# Appendix B: State Implementation Guides

| State | State Implementation Guide/ Comments |
| --- | --- |
| California | [State Prescription Monitoring Program Enhancement](http://domain.ext.domain.ext/warboard/anotebk.asp?proj=1849&Type=Active)   * Miscellaneous ---- Non Process Documents |
| Illinois | Not received to date |
| Indiana | [State Prescription Monitoring Program Enhancement](http://domain.ext.domain.ext/warboard/anotebk.asp?proj=1849&Type=Active)   * Miscellaneous ---- Non Process Documents |
| Massachusetts | [State Prescription Monitoring Program Enhancement](http://domain.ext.domain.ext/warboard/anotebk.asp?proj=1849&Type=Active)  Miscellaneous --- State PDMP Manuals |
| Michigan | [State Prescription Monitoring Program Enhancement](http://domain.ext.domain.ext/warboard/anotebk.asp?proj=1849&Type=Active)   * Miscellaneous ---- Non Process Documents |
| Nebraska | Not received to date |
| New York | [State Prescription Monitoring Program Enhancement](http://domain.ext.domain.ext/warboard/anotebk.asp?proj=1849&Type=Active)   * Miscellaneous ---- Non Process Documents |
| Texas | [State Prescription Monitoring Program Enhancement](http://domain.ext.domain.ext/warboard/anotebk.asp?proj=1849&Type=Active)   * Miscellaneous ---- Non Process Documents |
| West Virginia | [State Prescription Monitoring Program Enhancement](http://domain.ext.domain.ext/warboard/anotebk.asp?proj=1849&Type=Active)   * Miscellaneous ---- Non Process Documents |
| Wyoming | Not received to date |

# Appendix C: Previous RSD/SDD

|  |  |
| --- | --- |
| RSD/SDD PSO No. | Previous Requirements Specification Document/Software Design Document |
| PSO\_7\_408 RSD | [Safety Updates for Medication Prescription Management (SUMPM) Project Planning -- Requirements Specification Document](http://domain.ext.domain.ext/warboard/anotebk.asp?proj=1356&Type=Active) |
| PSO\_7\_408 SDD | [Safety Updates for Medication Prescription Management (SUMPM) Project Planning -- Software Design Document](http://domain.ext.domain.ext/warboard/anotebk.asp?proj=1356&Type=Active) |

# Appendix D: Acronyms

| Term | Definition |
| --- | --- |
| AAI | Atlantic Associates, Inc. |
| ADSM | Active Duty Service Members |
| AMHTECH | Applied Machine Intelligence, LLC |
| ASAP | American Society for Automation in Pharmacy |
| CA | California |
| CR | Carriage Return |
| CSDP | Controlled Substance Database Program |
| DEA | Drug Enforcement Agency |
| DSA | Digital Signature Algorithm |
| FIPS | Federal Information Processing Standard |
| GUI | Graphical User Interface |
| HID | Health Information Design |
| ID | Identification |
| IL | Illinois |
| IN | Indiana |
| INSPECT | Indiana Scheduled Prescription Electronic Collection and Tracking |
| IP | Internet Protocol |
| IPT | Integrated Project Team |
| LF | Line Feed |
| MA | Massachusetts |
| MI | Michigan |
| NASPER | National All Schedules Prescription Electronic Reporting Act |
| NE | Nebraska |
| NSR | New Service Request |
| NY | New York |
| NYDOH | New York Department of Health |
| OARRS | Ohio automated Rx Reporting System |
| OM | Operations and Maintenance |
| OTECH | Optimum Technology |
| PDMP | Prescription Drug Monitoring Programs |
| PL | Public Law |
| PMP | Prescription Monitoring Programs |
| PSI | Patient Safety Issues |
| RSA | Rivest-Shamir-Adelman |
| RSD | Requirements Specification Document |
| Rx | Prescription |
| SDD | System Design Document |
| SPMP | State Prescription Monitoring Program Enhancement |
| SSH | Secure Shell |
| TSPR | Technical Services Project Repository |
| UPHN | Universal Public Heath Node |
| VHA | Veterans Health Administration |
| VMS | Virtual Memory System |
| WY | Wyoming |