The Prime Times

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Issue 10

Change Expected in SDWIS Prime Development Schedule

Michael Plastino, Infrastructure Branch Associate Chief

In the SDWIS Steering Committee, at the ASDWA Data Management Users Conference, and in other SDWIS Governance groups, the SDWIS Prime management team has received feedback that the SDWIS State RTCR Conversion Software, by providing adequate interim RTCR implementation data management support, has decoupled RTCR implementation from transition to Prime. We have also received feedback that the amount of remaining system development has raised concerns on if a quality product, with sufficient time for stakeholder input, can be completed by May 2015.

After considering this feedback, the Project Sponsor, OGWDW Director Peter Grevatt, has decided to defer system completion beyond May 2015. Over the next 3 months, the SDWIS Prime management team will be working with SDWIS Governance structure groups to complete detailed requirements for the remaining parts of SDWIS Prime. These detailed requirements will enable the SDWIS Prime management team to work with the Contractor on developing a high level of confidence schedule for the remaining system development. While we anticipate the Project Sponsor approving a new system completion date in about 3 months, for purposes of primacy agency planning our current estimate is that the delivery date will be deferred 6 to 9 months beyond May 2015.

SDWIS Prime Data Requirement Document – What Values Added?

Trang Le

One of the most frequent questions asked of users is to request a document that describes the current SDWIS Prime data set. In particular, SDWIS State users are interested in learning data differences between SDWIS Prime vs. SDWIS State and working on data quality and data cleanup to support their eventual transition to SDWIS Prime. In response to that information need, the project team has recently released a new document, "SDWIS Prime Data Requirement – Inventory v1" in an Excel format and posted it on ASDWA's website and SDWIS SharePoint site. This first version focuses on the Inventory dataset, the current developed SDWIS Prime data module.

What Are The Benefits?

There are several benefits of this new document. First, it provides a detailed explanation of SDWIS Prime data requirements at the granular level (i.e., elements and objects), so users can find the equivalent elements in their own database and perform the data quality cleanup. Thus, if the required data shows empty in their database, users could plan to fill up with the right values. Second, as users log in the preproduction SDWIS Prime site for testing, the document can serve as a quick guidance to help for understanding inventory elements on data entry forms. Finally, those agencies using SDWIS State 3.2 would find the document particularly useful with the cross-referencing tables and columns between SDWIS Prime and the latest SDWIS State version. With the use of the cross-referencing tables and columns between SDWIS Prime and SDWIS State together with the Entity Relationship diagram (ERD), the agencies would be able to create the mapping logic to convert data to SDWIS Prime.

What Is The Content?

The new Inventory v1 document provides basic inventory requirements on three data groups: Water System, Water System Facility, and Purchase or Wholesale. Each data group presents objects (in green)

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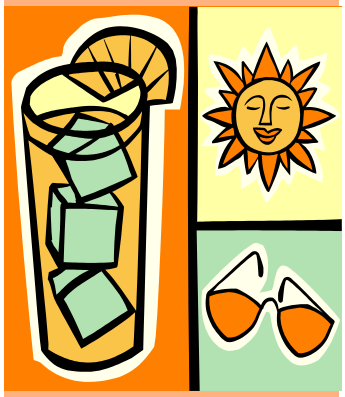

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and data elements collected for the group. In most cases, the objects and data elements represent tables and fields of the SDWIS Prime database.

The metadata of SDWIS Prime data requirement is presented in the document. For each data element, users could find the description on:

Data Characteristics:

- **Required Level**: four types -- required (R), optional (O), conditional (C), or system-generated (G) requirement
- **Definition**: description of a data element. Some definitions inform if data element is state-defined value.
- **Validation Rules**: specific format, structure and/or programmatic requirements for a data element including permitted values for data entry. Most of the permitted values are carried over from SDIWIS States database. Some elements allow the expansion with permitted values from states.
- **Data Type and Length**: indication of numeric or text value, specific decimal points and the maximum length allowable for a data element

SDWIS Prime Table/Column: indication of table and column storing data in SDWIS Prime database

Data Mapping:

- **SDWIS State 3.2 Table/Column**: cross reference data element in SDWIS State 3.2 version. Some "not exist" phrases indicate the data is new and only exist in SDWIS Prime. This information can be the basic mapping logic for data conversion from SDWIS State 3.2 into SDWIS Prime data structure.

Is It Federally Reportable? – indication of whether an element is needed for the current minimum Federal reporting requirement

As the development of data modules is expanded, the document will increase with additional sets of data elements for the new modules. The project team will update the progress of SDWIS Prime development every three months. The version 2 of the data requirement document will be available to share with the user community by the end of July 2014.

Current EPA Transition Activities

LA Darnell

Transition Planning Pilot (November 2013 – May 2014)

During the May and final Planning Pilot call participants reviewed the draft templates (see below) via a webinar. The usefulness and or ability or desire to commit resources to complete templates at this juncture of the SDWIS Prime project was somewhat debated. There will be many moving parts to any agency's transition to Prime. Templates will be provided merely as a tool to support the transition planning process. EPA will not be requiring any agency to complete templates. That said, EPA does fully support the IAWG efforts to collect additional details including data elements for use by the various subgroups. In these efforts templates must be used. The EPA Transition Team and IAWG are working together to develop a single template that will serve a transition planning purpose for "As-Is" documentation as well as for capturing the details needed by IAWG and the SDWIS Prime infrastructure sprints. As the planning pilot ends, we transition into data migration mode. Several of the pilot participant states are opting to continue the 1:1 transition planning calls with EPA.

Pilot participants included: CT, ID, LA, MT, NH, NM, RI, UT, WA, R1, R6, R8, R10.

Transition Tool Development (July 2013 – March 2014)

As-Is(Product) Configuration Template – This Excel file is intended as a place to record the current state of Primacy Agency products and tools whose functionality will be transitioned to SDWIS Prime. Information to be captured through this effort includes: User information, Data Elements used, Data flow information, Resource information (cost to support, infrastructure cost, FTE required, etc..), and Technology information. There will be a separate template developed and provided to capture the cost accounting.

Data Quality Query/Mapping Tools – In coordination with the ASDWA-EPA Data Management Advisory Committee, query tools will provide each Primacy Agency with known data issues in the existing federal data warehouse. A report can now be run by states in the Fed Reporting Service application. There are also some state developed data quality tools available. Improved data quality is at the central core of the SDWIS Prime vision. EPA developed a guidance tool that conveys which data quality issues must be addressed in order for SDWIS Prime to function correctly and which data quality issues are recommended to be addressed for sound program management. It also demonstrates a data element mapping between S/S 3.2 and SDWIS Prime. The file was delivered in May and can be found on the ASDWA website or you can contact Trang Le for a copy: le.trang@epa.gov.

SDWIS Prime Development Plans

Greg Fabian

Sprint 10 – Site Visits (Sanitary Surveys) and Laboratory Certifications

Sprint 10 is wrapping up on July 11. Unlike earlier sprints, which lasted 20 workdays, Sprint 10 is 33 workdays long and involves two business areas: site visits/sanitary surveys and managing laboratory certifications. Another difference between Sprint 10 and the earlier sprints is that much of the business analysis work was completed before the sprint started. With the earlier sprints, a lot of the business analysis work happened during the first two or three days of each sprint. While this is more in line with "traditional" agile development techniques, it presented a couple of challenges:

- Only the SMEs assigned to the sprint participated in the business analysis process and had input into the screen mockups and the business requirements

Getting a higher precision estimate of the time and budget required to complete development was very difficult because the user stories described in the Business Requirements Document for the system are at a very high level To overcome these challenges, the project team worked with the Site Visits and Laboratory Focus Groups to develop user stories and screen mockups while INDUS completed the replatforming of SDWIS Prime. We'll find out how well this approach worked when we complete the Sprint 10 retrospective on July 11.

July Preproduction Release 2

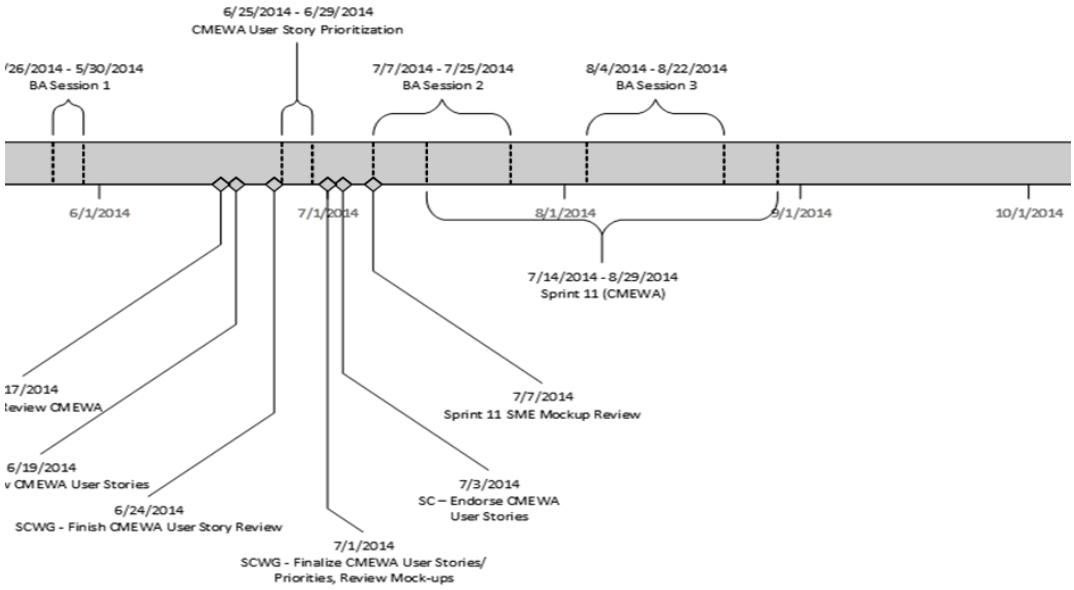
In late July, the project team plans the second preproduction release of SDWIS Prime. Some of the features of this new release are:

- Numerous bug fixes and performance improvements
- Ability to manage sanitary surveys (features for scheduling sanitary surveys won't come out until after Sprint 11, described below)
- Managing laboratory certifications for analytical methods/analytes (which feeds into managing laboratories as legal entities)

The first version of a user's guide In late July, the project team will demonstrate the new features and fixes in this latest release. An invitation for the webinar will go out in the next week or two, so stay tuned. We will record the demonstration so that you may view it at your leisure in case you have a scheduling conflict.

User Story/Business Analysis Update

Over the past several months, stewards and the focus group leaders and EPA product owners for the Compliance, Monitoring, Enforcement, and Water System Assistance (CMEWA) business areas worked on developing the business requirements and user stories for features supporting these business processes in SDWIS Prime. At this time, the Sprint Coordination Work Group (SCWG) is reviewing and prioritizing the user stories, which you can see in the CMEWA User Stories document. When finished, the SCWG and project team will present the user stories to the Steering Committee for their endorsement and then to Peter Grevatt, our project sponsor, for his approval. The timeline for completing this work appears in the diagram below. You can also review the plan for finalizing the CMEWA requirements here.



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Notice the timeline in "BA Session 1 and BA Session 2". During these sessions, focus group representatives, INDUS business analysts and EPA project team members will "flesh-out" the rest of the business requirements and develop screen mockups. Not shown on the timeline are activities in August and September where focus group members review and provide input to the screen mockups before development. The project team is in the process of adding more detail to this timeline and will share that information with the community when it's finalized.

Sprint 11 - CMEWA

Did you notice Sprint 11 on the timeline above? Starting July 14, the project team will start a new, extra-long sprint concentrating on developing the core features for scheduling all the different kinds of actions and activities managed in SDWIS Prime. Most of the work will affect the system administrator because they will be responsible for:

- Setting up state-specific action types (e.g., enforcement actions, technical assistance actions, compliance actions) and mapping them to federal action types as applicable
- Creating and managing action templates ("standard responses", in the case of enforcement actions)
- Indicating if SDWIS Prime should generate a candidate violation, and the violation type, if an action is not completed on time

Scheduling sanitary surveys (left out of Sprint 10)

The sprint team will build other features, depending upon the final priorities and their technical interdependencies.

As the timeline shows, the team will finish this sprint by the end of August. Sprint 12 will likely be a continuation of Sprint 11, further building-out features for tracking and reporting on the status of various actions and violations maintained in the system.

Using SharePoint

The links embedded in the article "point" to documents stored in the SDWIS Document Library, which is a SDWIS SharePoint site asset. Final documents (and some works in progress, like the CMEWA Requirements Finalization Plan) are found in this document library. To access the SDWIS SharePoint site, you need a Microsoft account. If you don't already have a Microsoft account and access to the SDWIS SharePoint site, go to https://signup.live.com to create your account. Like the site says, use your work email address. After you've signed up, send an email to SDWISPrime@epa.gov and let us know what your Microsoft ID is so that we can send an invitation to you. Once you receive the invitation, you must click on the link to the SharePoint site within 10 days to complete the registration process or the invitation will expire and we'll have to send you a new one.

Also, there's been some confusion about setting up the Microsoft ID. If you use your work email address as your user ID, Microsoft automatically associates your work email address with that ID. If the two aren't associated correctly, SharePoint security will not allow you to access the SharePoint site.

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