

Community Technology Preview

SSRI using WAND – August 2011

Organisation Attendees

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Overview

The aim of this Community Technology Preview (CTP) was to provide awareness of and demonstrate some of the new functions available in current version of the WAND Platform. In particular our objective was to showcase how the Audit form and SSRI (formerly “Part D”) now utilize new WAND Server data binding actions to enable the generation of Operational Risk Summary documents.

Presentation Summary

Collecting Operational Risk Information using WAND

- The “Part D” of the Audit form is now called SSRI by default, therefore the Audit form will consist of Parts A, B, C and SSRI. That said, the form labels, page numbers and section labels are customizable via the use of extensions.

- SSRI Information is automatically populated when FSOs enter information in the Audit. Many fields from parts A-C are automatically reciprocated in the SSRI section – this means every completed audit will produce an SSRI summary document without the FSO even looking at specifics of the SSRI section.
- In some cases FSOs will collect Operational Risk information as part of the Audit inspection; in other cases customers may require only the capture of the SSRI section. The WAND platform and the forms we have developed support both scenarios. Just as fire safety information captured by FSOs contributes to the operational risk, SSRI information captured by operational staff contributes to the fire safety risk of the properties inspected.
- The separated SSRI form can be allocated in the same way as the Audit – i.e pre-assigned work to specific people/watches/locations. The inspection types you choose to use for operational risk inspections are subject to the same risk scheduling mechanism used to automatically generate future work based on risks and FSEC category.

See <http://www.sophtlogic.com/wandlive/livedocs/article/768/overview> for more information on setting this up using the pharos MIS.

Exposing the SSRI

- WAND Server bindings for the Audit (or SSRI) use system parameters to determine the actions to perform when submitting a form.

<http://www.sophtlogic.com/wandlive/LiveDocs/Article/138/Configuration>

- The interface is completely customizable. Different templates can be used against different conditions, as too can different actions be triggered on different conditions.
- Templates are basic HTML documents, easy to create and modify. They could also be any document where textual tags could be embedded and replaced.

The SSRI Form

- The SSRI form is a standard form but can be customized via the use of extensions. Our objective is to maintain a standard product whilst offering total flexibility. The underlying Audit form, although customized for local requirements, provides data to a common IRMP reporting function.
- When the SSRI [section] is completed it will populate the other parts of the Audit form (even if it is not used), likewise the SSRI form is also automatically populated from other Parts of the Audit form and MIS
- The Audit and SSRI forms can be completed remotely and disconnectedly. When the user is back on the intranet (or internet when using public facing WAND Server) they submit – or “Check In” – the form data to the system via the WAND Server.
- SSRI can be deployed as a stand-alone form and you can allocate inspections against inspection types that use this extension only, e.g. “Risk Inspections” or “SSRIs”
- Underlying rules on the SSRI section enable changes to selection drop lists, check boxes and radio fields to automatically populate English summaries in hidden fields which can then be used in the template. For example, “Has Risk XYZ?” would typically hold a Boolean (YES or NO). This value is translated by the form’s rules to provide a textual summary that can be used on the SSRI summary documents. The rules that determine the text use can also be customized via an extension – so if you don’t want to use the default you don’t have to.
- Why limit to only producing SSRI Summaries (formerly Product 62)? The same binding actions can be used to generate email notifications, letters and other documents that could assist the manual QA/Review procedures. You could for example email all Crew Managers when high operational risks are identified in their station ground.

- It is important to remember that legislative forms, such as the Audit, are supported and published via the WAND Library. Customizations of any form are possible via the use of Extensions, but are still maintained and published centrally. This means that national requirements for statistics and data gathering are met whilst giving you complete control of the look, feel, logic and subsequent workflow of your forms.
- In house forms (not created by SOPHTLOGIC) can be created using the pharOS eQ Architect Module.

The SSRI Form

- We are currently finalizing plans for the inclusion of national standard Operation Risk scoring system (based on PORIS).
- Over the forthcoming months we will be providing extensions containing proprietary risk scoring functions for those customers already running SSRI systems and wishing to migrate
- We are will be publishing the separated “SSRI” extension for mobile data capture of the SSRI (Part D). We will notify you when this is available for Synchronization via the WAND Library.
- The next WAND Server release will come with an SSRI Web Service, exposing the SSRI information per UPRN

Questions and Answers

Q. Where does the html template [that is used to create the SSRI document] reside, is it on the WAND Server?

A. Yes, The actual SSRI template resides on the WAND Server but in fact can reside on any URL and if required you can create multiple templates for different purposes. It is also possible to create templates that contain cut down summaries, for example Incident Summaries from the IRS form, that can also be published and made available to the MDTs.

Q. We would want the SSRI form to be validated before information goes onto the MDT. Can there be some way of reviewing or checking the audits first?

A. Form validation in terms of required fields and format of data is done at the point of entry. In terms of validating the compiled HTML documents; at present this would be a manual task but you can prevent the information going directly to the MDTs, so the information can be validated or checked first. The compiled documents can go to a holding area initially or sent for review or QA via an email notification. This notification could include a direct link to the actual document in case it requires modification.

Q. Where would you see holding area? Would this be on the WAND server?

A. Probably not. This is somewhat dependent on the MDT system, but they tend to group documents in folders by UPRN; so this would need some network share or FTP folder capable of being accessed by the WAND Server.

Q. The SSRI [formerly "Part D"] contains free text fields and optional descriptions. Can these be embedded within the template?

A. Any field entered on the Audit or SSRI/Part D can be embedded into the HTML template. With regards to the SSRI summary text, these are populated based on positive selections made on the SSRI section of the Audit. To this end, the form acts as a wizard to automatically generate SSRI summaries based on the selection of checkboxes and drop lists on the form.

Q. Our existing SSRI form uses our own scoring system; can this be incorporated into your form?

A. Definitely. In addition to a national scoring system based on the PORIS guidelines, we will be offering extensions to the form that port existing scoring mechanisms to the standard form. This will mean you will benefit from utilizing a national standard whilst retaining existing risk scores – without having to do any additional entry.

Q. Is using the WAND Platform dependent on having the SOPHTLOGIC property database [pharOS] or is it designed to interface with other property databases?

A. The WAND Platform is a suite of applications that provide a range of functions; in this particular case we are using it for the capture and transformation of Fire Safety and Operational Risk data. The WAND Server itself is a middleware solution that integrates the WAND Client with pharOS as well as other systems such as NLPG, CLG, IRS and other ISVs. The platform itself is agnostic, being completely data driven means interoperability with other RDBMS is an integral part of its design.

The “bindings” [the data driven business rules] that ship with the standard forms are by default integrated with our pharOS product. For example, binding conditions that automatically generate follow ups and future inspections in the pharOS Fire Safety system. These bindings would be either be dropped or reciprocated in any third party target system. Likewise, any bespoke business logic that is required for a target system would have an extension created for the specific installation.

Q. It is understood that your applications run on Oracle? Do you support other RDBMS?

A. With regards to our pharOS product, currently all of our customers use Oracle. However we have been through a process to make our code base use ANSI SQL where possible. The WAND Platform [the forms and data transformation services] can use any SQL database that has an ADO.NET driver. [An ADO.NET driver is a software component that allows the Microsoft .NET Framework to use it]

Q. How close are you with the separating the SSRI forms and parts A, B and C?

A. Very close, the work to support this functionality [Form Extensions] was completed in the last iteration of the WAND Server and we are in final stages of testing.

The separated Part D/SSRI is actually the complete Audit and Operational Risk form, but the extension literally hides parts A-C and “turns off” the required fields. This means that an SSRI form can be entered without completing a full Audit. There have been some requests to include a limited sub-set of Audit questions in what would effectively become a “Mini-

Audit” – this too would just be another extension of the separated SSRI whilst exposing additional fields from the base form.

Q. How would it work if an officer went to an inspection and also decided to inspect a neighboring property?

A. The ability to create new forms without allocated work is already available within some of the forms provided by the WAND Platform. However, due to some initial complications with the first version of the Audit form, it was actually disabled in the client. In the latest version of the client, WAND 7, this feature is enabled again, and you can create new ad-hoc Audit records on the client. Using techniques from the Home Fire Safety Request and Incident Recording system, the system will allow you to capture the audit, and then “hook” it up to a valid address record once the user is connected back to the WAND Server [internet/intranet]. This is also how ad-hoc “separated” SSRI forms will be captured.

Q. We understand WAND 7 can be deployed as an XBAP; will the separated SSRI form be accessible via the XBAP?

A. XAML Browser Applications [XBAP] are applications running on the Windows Presentation Foundation. Similar to Silverlight applications, they’re capable of running within an Internet Explorer browser having clear benefits with regards to deployment and version control.]

WAND 7 has been refactored with XBAP deployment in mind. It is a pure WPF implementation with overridden persistence functions meaning that stateful capabilities such as caching and automatic saving are available just like in the stand-alone client.

It should be noted that the XBAP is different to the web forms rendered by WAND Live.

WAND Live is itself a client running on a web server, using HTML and JavaScript/AJAX to render the forms whilst providing exactly the same business logic and validation. We will be providing separate presentations showcasing WAND Live and the web forms.

Q. We are looking at using the Home Fire Safety forms [with the WAND Platform]. Could the document templates be used by these forms?

A. We already use the template bindings for the Home Fire Safety Check Request form. It is a WAND form you can see on our Oaksborough demonstration site found here:

<http://www.sophtlogic.com/oaksborough-gov-uk/oaksborough-fire-and-rescue-service>.

The HFSCR form in this scenario is provided from the WAND Live server and works in same way as the normal WAND client but is instead rendered as a web page. Requests from the public are processed by the WAND Server and are fed through to HFSC inspectors based on certain criteria. As part of this process, various emails are sent to customer and relevant departments. This works in same way as the SSRI HTML template except the HTML template is used for the email rather than saving the file to network share or FTP Site.

Q. When can we have this functionality? Which version of WAND is this in?

A. The good news is that you probably already have this functionality as it is in the current version of WAND Server. The FTP bindings which will allow you to publish the merged documents are currently being shipped in WAND Server 1.2.5.