MultiSpeak Version 3.0 Interoperability Assertion

Statement of Interoperable Functionality Between:

Vendor(s)	Product	Product Version	Role	Web Client Interfaces	Web Server Interfaces
Power System Engineering	PSE Utility Operations Dashboard	1.0	OA		OA->SCADA

Summary:

SCADA software is capable of providing data to Power System Engineering's Utility Operations Dashboard using MultiSpeak web services.

The Power System Engineering's Utility Operations Dashboard will display SCADA data in Maps, charts, graphs, and tables in a web client.

Prerequisites:

The PSE Utility Operations Dashboard/MultiSpeak interface requires the following configuration:

- o The Utility Operations Dashboard will need to be setup to allow the SCADA system to communicate with the outage management system using MultiSpeak web services.
- o The URL used to connect to the SCADA Server.

Specific Vendor Assertions:

1. **PSE Utility Operations Dashboard requests SCADA status changes from SCADA software**

Importance to user: This gives the user outage information that result from the SCADA breaker operation.
How Achieved: When prompted by the user, the PSE Utility Operations Dashboard requests SCADA status changes by calling the GetAllSCADAStatus.
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2. **PSE Utitiliy Operations Dashboard requests SCADA analog changes from SCADA software**
Importance to user: This gives the user voltage and current information changes.
How Achieved: When prompted by the user, the PSE Utility Operations Dashboard requests SCADA status changes by calling the GetAllSCADAAnalogs.

MultiSpeak Methods
Table 1 OA→SCADA

Method Name	Importance to User	Supported by Server[1] (SCADA)	Supported by Client[2] (OA)	Verified Inter-operable[3]
GetMethods	Requester requests list of methods supported by the server.			
GetPublishMethods	Requests list of methods to which this server can publish information.			
GetRegistrationInfoByID	Requests the return of existing registration information (that is to say the details of what is subscribed on this subscription) for a specific registrationID.			
PingURL	Verifies that the server is running and reachable.			
RegisterForService	Establishes a subscription using a previously requested registrationID.			
RequestRegistrationID	Requests of the publisher a unique registration ID that would subsequently be used to refer unambiguously to that specific subscription.			
SCADAPointChangedNotification	Publisher notifies OA of changes in SCADA point definitions by sending an array of changed scadaPoint objects.			
GetAllSCADAStatus	Requests an array of changed scadaStatusobjects.	X	X	X
GetAllSCADAAnalogs	Requests an array of changed scadaAnalog objects.	X	X	X
UnregisterForService	Deletes a previously established subscription (registration for service) that carries the registration identifier listed in the input parameter registrationID.			

[1] Supported by Server means the server has demonstrated in some interoperability test (not necessarily with this client) that it can support the method.
[2] Supported by Client means that the client has demonstrated in some interoperability testing (not necessarily with this server) that it can call the method.
[3] Verified Interoperable means that both the client and server have demonstrated in this interoperability test they can usefully transfer data using this method.

Certified For:

Power System Engineering

_____   Manager, Smart Grid Programs

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              11/21/2014
Date: _____

Assertions Verified by:

_____   MultiSpeak Testing Agent
Name: Hannu Huhdanpaa   _____
                                                    Title

_____

Testing Agent

              11/21/2014
Date: _____

Disclaimer:

The assertions made in this document are statements of the vendors offering the two products listed above. The Testing Agent has observed the software performing the tasks described in these vendor assertions.

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