

## MultiSpeak Version 3.0 Interoperability Assertion

Statement of interoperable functionality between:

Vendor(s)	Product	Product Version	Role	Batch Interface	Web Client Interfaces	Web Server Interfaces
Survalent Technology Corporation	Survalent Windows SCADA	3.0	SCADA	-		SCADA→EA
Milsoft Utility Solutions	WindMil	7.1	EA	-	SCADA→EA	-

### Summary:

Survalent SCADA is capable of providing analog and status point data to Milsoft's WindMil using MultiSpeak web services. Points can be read on demand via the GetSCADAAnalogbySCADAPointID and GetSCADAStatusbySCADAPointID methods.

### Prerequisites:

The SCADA points that are to be made available to WindMil are identified in the SCADA system's Data Exchange tables. In these tables, SCADA points can be assigned:

- alternate names for presentation to the client (optional for both analog and status points)
- unit codes (required for analog points)
- deadbands (optional for analog points)
- scale factors (optional for analog points)

### Specific Vendor Assertions:

1) **WindMil can request a list of SCADA points from the Survalent SCADA server.**

**Importance to user:** The SCADA points in the list can be mapped to WindMil circuit elements, allowing the user to specify which SCADA points should be associated with which devices in the WindMil model.

**How Achieved:** The WindMil user chooses "Get SCADA point list" from the Real-time menu. WindMil then calls the GetAllSCADAPoints method on the Survalent server. The resulting list of SCADA points is displayed to the WindMil user in a list. The SCADA point ids in this list can be dragged into the empty fields on the SCADA page of the circuit element editor for the appropriate WindMil circuit elements. This process creates the mapping between SCADA point IDs and WindMil circuit elements.

2) **WindMil can request SCADA analog values from the Survalent SCADA server.**

**Importance to user:** The SCADA analog values such as fault currents and feeder currents can be used by the engineer for such applications as fault location and load allocation.

**How Achieved:** After SCADA point IDs have been assigned to their appropriate WindMil elements, the WindMil user can click the “Read SCADA analogs” or the “Read SCADA fault currents” button on the SCADA page of the circuit element editor of the device he wishes to read. WindMil then calls the GetSCADAAnalogBySCADAPointId method on the Survalent SCADA server. The returned SCADA analog values are displayed in the circuit element editor.

### **3) WindMil can request SCADA status values from the Survalent SCADA server.**

**Importance to user:** The status of a SCADA point tells the engineer whether some particular device is currently open or closed.

**How Achieved:** After SCADA point IDs have been assigned to their appropriate WindMil elements, the WindMil user can click the “Read SCADA status” button on the SCADA page of the circuit element editor of the device he wishes to read. WindMil then calls the GetSCADAStatusBySCADAPointId method on the Survalent SCADA server. The returned SCADA statuses (possibly more than one if multiple phases are desired) are displayed in the circuit element editor.

## Summary of Interoperability Test Results Interface #8 SCADA→EA

**Table 1  
Recommended MultiSpeak Methods**

Method Name	Importance to User	Supported by Server <sup>1</sup> (SCADA)	Supported by Client <sup>2</sup> (EA)	Verified Inter-operable <sup>3</sup>
GetMethods	Requests a list of methods supported by the server.	X	X	X
PingURL	Verifies that the server is running and reachable.	X	X	X
GetAllSCADAPoints	Returns a list of SCADA Point definitions.	X	X	X
GetSCADAAnalogBySCADAPointID	Returns a specific SCADA Analog by SCADAPointID.	X	X	X
GetSCADAStatusBySCADAPointID	Returns a specific SCADA Status by SCADAPointID.	X	X	X

**Table 2  
Optional MultiSpeak Methods**

Method Name	Importance to User	Supported by Server <sup>1</sup> (SCADA)	Supported by Client <sup>2</sup> (EA)	Verified Inter-operable <sup>3</sup>
GetAllSCADAAnalog	Returns all SCADA Analogs.			
GetAllSCADAStatus	Returns all SCADA Status data.			
GetDomainMembers	Returns a list of members of a specific domain supported by the server.			
GetDomainNames	Returns a list of domain names supported by the server.			
GetModifiedSCADAPoints	Returns a list of SCADA Point definitions that have changed since the session identified by sessionID.			

- 1) Supported by Server means that 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 test (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 that they can usefully transfer data using this method.

Certified by:

For Survalent Technology Corporation:



VP Software Development

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Date: July 18, 2006

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Testing Agent

Date: July 18, 2006

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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