

## MultiSpeak Version 4.0 Interoperability Assertion

Statement of Interoperable Functionality Between:

Vendor(s)	Product	Product Version	Role	Web Client Interfaces	Web Server Interfaces
Wireless Matrix	FleetOutlook	6.0	AVL	AVL→GV	GV→AVL
Milsoft Utility Solutions	Milsoft Web Server	7.3	GV	GV→AVL	AVL→GV

### Summary:

Milsoft's DisSPatch OMS product is capable of receiving AVL data from Wireless Matrix FleetOutlook platform using MultiSpeak web services. The Wireless Matrix FleetOutlook platform serves as the central receiver for GPS and vehicle metadata coming from mobile devices. The Milsoft Web Server accepts real-time update information on behalf of Milsoft DisSPatch OMS. It then prepares/stores the AVL data for display & interaction within DisSPatch clients.

Assuming initial configuration parameters are defined, DisSPatch clients can display an icon on the screen representing the AVL data source. They are also capable of viewing the history of any single AVL data source both in tabular form and as breadcrumb icons on the DisSPatch client map.

### Prerequisites:

The Enhanced Crew Management & AVL add-ons for DisSPatch must be installed and configured for proper integration. The Wireless Matrix FleetOutlook vehicle ID must match the AVLID in DisSPatch Enhanced Crew Management. Additionally, both from Wireless Matrix FleetOutlook platform and the Milsoft Web Server must be accessible to each other and configured for communication.

## Specific Vendor Assertions:

**1) The Milsoft Web Server will obtain a requested backlog of AVL data upon initial setup.**

**Importance to user:** The user may want to bring in historical data from a pre-existing Wireless Matrix FleetOutlook installation for DisSPatch to use as part of its vehicle history.

**How Achieved:** When the Web Server is configured for the first time with this interface, a request for AVL data over a window of time is issued via the GetAVLMessages method.

**2) DisSPatch will update defined vehicle location icons as real-time AVL information arrives.**

**Importance to user:** The user will be able to centrally view where their trucks are within DisSPatch so dispatchers can judge how to best utilize resources and provide increased safety to mobile workers.

**How Achieved:** Milsoft's Web Server will serve as a receiver for incoming AVLChangedNotifications being sent from Wireless Matrix FleetOutlook platform. The DisSPatch clients pull information from the Milsoft datastore as new data is being translated by the MultiSpeak AVL interface of the Milsoft Web Server and update defined vehicle icons with a new map location.

**3) DisSPatch will allow users to view historical AVL data**

**Importance to user:** The user will be able to view from within DisSPatch where a vehicle has been using the data collected from Wireless Matrix.

**How Achieved:** By clicking on a vehicle in DisSPatch you can open a window that displays a grid of where that vehicle has been over a specified time period. This also puts new icons on the map to represent where that vehicle has been. When a record is selected in the vehicle info grid, the historical icons change size to represent selection.

**Summary of Interoperability Test Results  
GV→AVL**

**Table 1  
Recommended MultiSpeak Methods**

Method Name	Importance to User	Supported by Server <sup>1</sup> (GV)	Supported by Client <sup>2</sup> (AVL)	Verified Inter-operable <sup>3</sup>
AVLChangedNotification	AVL Notifies GV of changes in AVL object(s) by sending the changed AVLLog objects(s)	X	X	X
GetMethods	Requests a list of methods supported by the server.	X	X	X
GetPublishMethods	Requester 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.	X	X	X
RegisterForService	This method 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.			
UnregisterForService	Deletes a previously established subscription (registration for service) that carries the registration identifier listed in the input parameter registrationID			

**Table 2  
Optional MultiSpeak Methods**

Method Name	Importance to User	Supported by Server <sup>1</sup> (GV)	Supported by Client <sup>2</sup> (AVL)	Verified Inter-operable <sup>3</sup>
GetDomainMembers	Requests the members of a given domain (type of fixed information, such as all of the counties in the database).			
GetDomainNames	Requests the domains (lists of fixed information, such as the counties served, or the acceptable status codes for this installation).			

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.

**Products: Milsoft Web Server and Wireless Matrix FleetOutlook**  
**Summary of Interoperability Test Results**  
**AVL → GV**

**Table 3**  
**Recommended MultiSpeak Methods**

Method Name	Importance to User	Supported by Server <sup>1</sup> (AVL)	Supported by Client <sup>2</sup> (GV)	Verified Inter-operable <sup>3</sup>
GetAVLMessages	Returns stored events (AVLLogs) for all vehicles that are equipped with AVL, within a specified date/time range.	X	X	X
GetAVLMessages ByAVLID	Returns events (AVLLogs) for a vehicle that is equipped with AVL, for a specified date range, given the vehicle's AVLID.			
GetAVLMessagesByVehicleName	Returns events (AVLLogs) for a vehicle that is equipped with AVL, for a specified date range, given the vehicle's name.			
GetAVLPositionByAVLID	Returns all positions for a vehicle that is equipped with AVL, within a specified date/time range, given the AVLID.			
GetAVLPositionByVehicleName	Returns all positions for a vehicle that is equipped with AVL, within a specified date/time range, given the vehicle name.			
GetAVLSupportedVehicles	Returns all vehicles that are equipped with AVL.			
GetLastAVLMessages	Returns the most recent stored events (AVLLogs) for all vehicles that are equipped with AVL.			
GetLastAVLPositionByAVLID	Returns the most recent stored position for a vehicle that is equipped with AVL, given the vehicle name.			
GetLastAVLPositions	Returns the most recent stored position for all vehicles that are equipped with AVL.			
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			
GetMethods	Requests a list of methods supported by the server.	X	X	X
InitiateAVLUpdateRequest	Requester asks AVL server to initiate a GPS poll of an AVL endpoint, by specifying the AVLID of the end point.			
PingURL	Verifies that the server is running and reachable.	X	X	X
RegisterForService	This method 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.			
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 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.

**Table 4  
Optional MultiSpeak Methods**

<b>Method Name</b>	<b>Importance to User</b>	<b>Supported by Server<sup>1</sup> (AVL)</b>	<b>Supported by Client<sup>2</sup> (GV)</b>	<b>Verified Inter-operable<sup>3</sup></b>
GetDomainMembers	Requests the members of a given domain (type of fixed information, such as all of the counties in the database).			
GetDomainNames	Requests the domains (lists of fixed information, such as the counties served, or the acceptable status codes for this installation).			

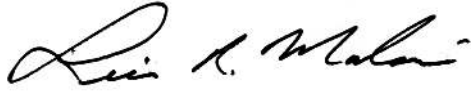
1) Supported by Server means that the server has demonstrated in some interoperability test (not necessarily with this client) that it can support the method.

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 Milsoft Utility Solutions, Inc. :



\_\_\_\_\_  
Name: Luis Malavé

\_\_\_\_\_  
Executive Vice President / CTO

Title:

10/1/2010

Date : \_\_\_\_\_

For Wireless Matrix Inc. :



\_\_\_\_\_  
Name: Terry Prime

\_\_\_\_\_  
Vice President, Engineering

Title:

10/1/2010

Date : \_\_\_\_\_

Assertions Verified by:



\_\_\_\_\_  
MultiSpeak Testing Agent

\_\_\_\_\_  
Name: Hannu Huhdanpaa

Title:

\_\_\_\_\_  
UISOL, Inc...  
Testing Agent

10/1/2010

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.

Neither NRECA, Cornice Engineering, Inc. (MultiSpeak Project Coordinator), nor UISOL, Inc, acting on behalf of NRECA, makes any warranty or guarantee that the software will perform as described in this assertion when installed at any specific utility. Furthermore, neither NRECA, Cornice Engineering, Inc., nor UISOL, Inc. makes any warranty or guarantee that the software described will be suitable for any specific purpose or need.

As used herein, the word *verify* shall mean an expression of the Testing Agent's professional opinion to the best of its information, knowledge and belief, and does not constitute a warranty or guarantee by NRECA or the Testing Agent.

