

ATMS Wrong Way Driver Alert API

1. Overview

The ATMS Wrong Way Driver Alert API provides a mechanism for external systems (i.e. BlinkLink) to upload alert information to the ATMS WWD module such that the system can process and present the information to operators for immediate action with as little delay as possible.

2. Authentication

Since this is a system to system interface with a very small set of potential clients, the API will use the HTTP Basic Authentication approach to authenticate the client application. A client application will be provided a username/password combination to be used in the HTTP headers for each call. The API will run over HTTPS using TLS, which will prevent the username/password from being intercepted by a malicious third party.

3. API Definition

The following table lists the resources (calls) available to the client along with descriptions of those resources. Full details follow for each individual resource, including the names, data types, and descriptions of all available fields.

Resource	Description
POST WrongWayDriverAlert	Receives new alerts from the Wrong Way Driver system
POST ApiStatus	To be used by heartbeat calls from the BlinkLink WrongWayDriver system to indicate that the system is communicating normally

POST /api/WrongWayDriverAlert				
Description	Receives new alerts from the Wrong Way Driver system			
URI Parameters	None			
Data Payload	Name	Description	Type	Notes
	alertId	Unique identifier for the alert	int	None
	reportedDateUtc	Date the alert was reported in Coordinated Universal Time	DateTime	None
	alertType	Indicator of the type of alert being reported	string	The following alert types will be processed: "Wrong Way Detection" "Lost Contact Camera" "Lost Contact Controller" Other alert types will be accepted but no action will be taken when they are received
	images	Images associated with the alert	string[]	Array of Base64 encoded images
	systemId	The unique id of the detection station the alert has been generated for	int	None
	callbackUrlFormat	The URL to which alert resolutions should be sent	string	It is expected that this URL will contain placeholders for an AlertId and a ResolutionTypeId, and will only be provided for "Wrong Way Detection" alerts. See definition of resolution types below.
	alertDetailUrl	The URL pointing to the external alert detail page	string	Allows for easy navigation for the user from the ATMS to the detail page
	systemDetailUrl	The URL pointing to the external system detection site detail page	string	Allows for easy navigation for the user from the ATMS to the system detail page

	resolutionTypes	All possible resolutions for an alarm of this type.	ResolutionType[]	A ResolutionType object will consist of: Id: GUID Description: string
Success Response	Code: 200 Content: none			
Error Response	Code: 422 Content: { error: "Sample error string" }			
Sample Payload	<pre> { "alertId":1, "reportedDateUtc": "2017-02-02 21:37:48", "alertType": "Wrong Way Detection", "priorityLevel": 1, "images": [base64encodedstring, base64encodedstring], "systemId": 1, "callbackUrl": "https://www.blinklink.net/admin/alert/resolution/1", "alertDetailUrl": "https://www.blinklink.net/admin/alert/view/1", "systemDetailUrl": "https://www.blinklink.net/admin/system/view?systemId=1", "resolutionTypes": [{ "id": "000028ec-9b3e-4a46-9286-0834f3bdcfde", "description": "Unresolved" }, { "id": "00021971-83ce-47ba-bd59-b9e965cf1bd5", "description": "Wrong Way Vehicle" }, { "id": "0002ae73-3bc8-475b-bbe1-170941ffa891", "description": "Test Event" }, { "id": "0002e05f-9b40-4b29-a23e-f3deb059090a", "description": "Emergency Response Vehicle" }, { "id": "00040a06-7819-4aac-9c66-c7eb32e63f8f", "description": "Maintenance Vehicle" }, { "id": "00042c81-0505-4d0f-bccc-16f0599e5010", "description": "False Positive" }] } </pre>			

POST /api/ApiStatus				
Description	To be used by heartbeat calls from the BlinkLink WrongWayDriver system to indicate that the system is communicating normally			
URI Parameters	None			
Data Payload	Name	Description	Type	Notes
	heartbeatFrequency	The time interval in minutes at which the caller is expecting to call the ApiStatus method	int	None
Success Response	Code: 200 Content: None			
Error Response	Code: 422 Content: { error: "Sample error string"}			
Sample Payload	{ "heartbeatFrequency": 5 }			