NexTraq Web Services

NexTraq

1200 Lake Hearn Drive

Suite 500

Atlanta, GA 30319

MAIN: 678-762-6863

FAX: 678-762-6805

Change History

Date	Revision	Description
3/30/2017	8.17.3	Corrected TrackManagerV1 documentation - added missing getTracksByMobileBetweenV2 method and removed getTracksForAllMobilesBetweenV2. Corrected documentation for mobile and fleet colors; added colors to Enumeration section.
8/22/2017	8.17.9	Update documentation related to filter keys and values accepted by getJobDetails
6/18/2019	8.19.3	Added editMultiCustomFieldValue and addMultiCustomFieldValue methods to DispatchManagerV1.
6/18/2019	8.19.4	Corrected code sample link
8/21/2019	8.19.6	Added ability to tag fleet to unassigned dispatch Job on createJob method
02/25/2022	8.22.4	Added getTracksForAllMobilesSinceReceived method to TrackManagerV1.

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Welcome

This is the NexTraq Web Services API Reference Guide. This section describes who should read this guide and how it is organized.

Audience

This guide is intended for developers who want to integrate with the NexTraq® Fleet Tracking solution through the use of web services.

Required Knowledge and Skills

Use of this guide assumes you are familiar with the following:

- XML (Extensible Markup Language)
- Basic understanding of web services
- A programming language for consumption of web services (Java, C#, Visual Basic, etc.)

How This Guide is Organized

This guide is organized into sections as described below:

- General Information About NexTraq Web Services
- Services Documentation
- Error Codes
- Sample Code

Services Overview

The NexTraq Web Services provide information using the data stored in the NexTraq Fleet Tracking solution. Authentication and authorization is managed to the web services on a per user basis.

Security Overview

There are three components to the security model for the NexTraq Web Services: authentication, authorization and usage limits. The authentication mechanism is controlled by username and password.

Authorization is managed on a per service basis. The required access level must be enabled for an account prior to accessing a service. Access for each service can be set up independent of one another. For example, user 'A' may have access to the *LocationManager* service whereas user 'B' may not. The necessary account access will need to be requested from NexTraq during account setup.

Usage limits are managed on a per method basis. This means that a user will be granted access to execute a method of a service on a specific time interval (e.g. every five minutes). Access will be denied if a user tries to access the method more often than the specified interval.

Authentication

In order to access any of the NexTraq web services a user must first be authenticated and obtain an authentication token. An authentication token is retrieved by calling the *GetAuthenticationToken* method of the *AuthenticationManager* service. Authentication tokens are only valid for 24 hours. A user must re-authenticate after the token has expired.

Authorization

Authorization for the NexTraq web services is controlled on a per service basis.

Usage Limits

Customers can only request data with a certain frequency. This allows us to process inbound information and prepare the serving of this information to our web users as well as our web services users. For example, if the account is permitted to request data 5 times in 5 minute intervals, all requests after the 5th one that are received within five minutes of first processed request will be denied. The first 5 requests could be submitted any time interval within 5 minutes. Denied requests do not affect the request window. For example:

1. Request is received at 12:35:00 and processed
2. Request is received at 12:36:00 and processed
3. Request is received at 12:36:05 and processed
4. Request is received at 12:36:10 and processed
5. Request is received at 12:38:00 and processed
6. Request is received at 12:39:30 and is denied
7. Request is received at 12:40:05 and processed
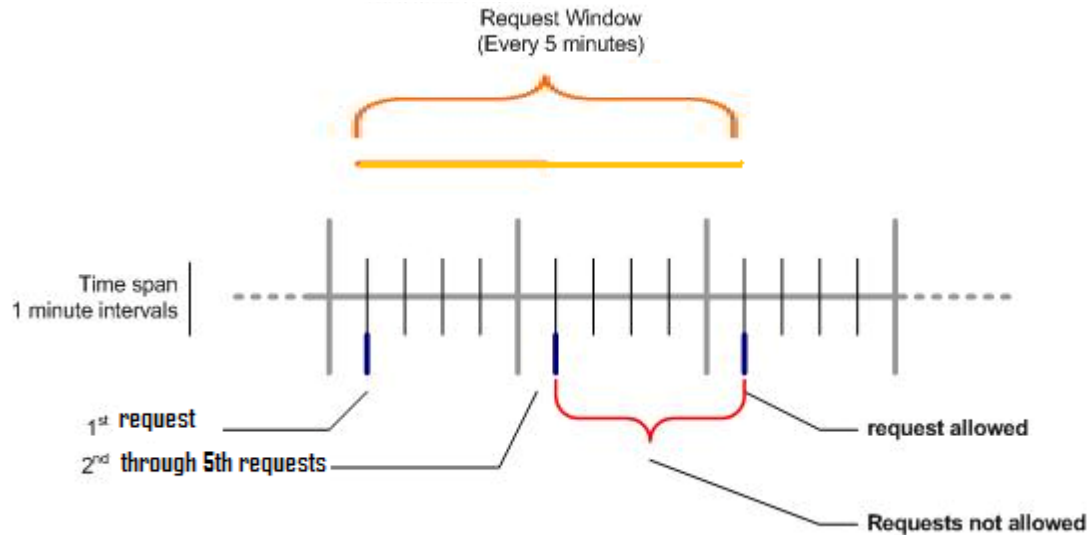
The *request interval* is set when the account is activated and can be set for each web service method.

Programming Reference

This programming reference provides information on NexTraq Web Services. It contains information on making requests and handling responses.

Making Requests to NexTraq Web Services

1. Obtain a Web Services username and account from NexTraq. Please contact NexTraq if you need to request an account.

2. Generate client stubs (generated from WSDL) using the standard tools available in your programming language of choice. References to sample Java and C# applications can be found in the Code Samples section of this document.

3. List the parameters for the API you want to call and construct a DWHeader containing the authentication token and a request using the required parameters. See the API reference section for more details on the parameters for each service.

DWHeader

The *DWHeader* is sent with each request as a part of the header. It should contain the authorization token that was obtained when *GetAuthenticationToken* is called. See Complex Types for the structure of the DWHeader.

API Reference

AuthenticationManagerV1

The *AuthenticationManagerV1* service provides authentication methods necessary in order to access the NexTraq web services.

Service Location

http://services.discretewireless.com/v2009_1/AuthenticationManagerV1.asmx

(HTTP GET is disabled for security reasons on service URIs.)

WSDL Location

http://services.discretewireless.com/v2009_1/AuthenticationManagerV1.wsdl

Methods

- **getAuthenticationToken**
- **validateAuthenticationToken**

getAuthenticationToken

The *getAuthenticationToken* method allows you to retrieve an authentication token to use when accessing controlled web services.

Request Parameters: getAuthenticationTokenRequest

Name	Data Type	Comments
username	String	Username provided by NexTraq to access web services.
password	String	Password provided by NexTraq to access web services.

Response Parameters: getAuthenticationTokenResponse

Name	Data Type	Comments
AuthToken	String	The authentication token on subsequent calls to access controlled web services.
ExpirationDate	DateTime	The timestamp for when the authentication token expires.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

validateAuthenticationToken

The *validateAuthenticationToken* method allows you to validate an authentication token before using it to call access controlled web services.

Request Parameters: validateAuthenticationTokenRequest

Name	Data Type	Comments
AuthToken	String	An authentication token provided to you by the GetAuthenticationToken method.

Response Parameters: validateAuthenticationTokenResponse

Name	Data Type	Comments
TimeToLive	int	An integer containing the minutes left to expiration (>0).

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

AddressFinderV1

Address Finder Web Service offers geocoding and reverse geocoding for your Internet applications. You can use Address Finder Web Service to input a street address and receive a candidate list and associated x, y coordinates. You can also use this Web Service to input x, y coordinates and receive a street address.

Service Location

http://services.discretewireless.com/v2009_1/AddressFinderV1.asmx

(HTTP GET is disabled for security reasons on service URIs.)

WSDL Location

http://services.discretewireless.com/v2009_1/AddressFinderV1.wsdl

Methods

- **findAddressByPoint**
- **findPointByAddress**

findAddressByPoint

The *findAddressByPoint* method allows you to reverse geocode a latitude and longitude value into the nearest address.

Request Parameters: FindAddressByPointRequest

Name	Data Type	Comments
Point	`Point`	An object representing a latitude and longitude combination.

The definition of *Point* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd

Response Parameters: FindAddressByPointResponse

Name	Data Type	Comments
Address	`Address`	The closest address that resolves to the latitude and longitude submitted.

The definition of Address can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd

Error Codes

Code	Message
100007	Invalid latitude. Value submitted is outside acceptable range.

100008	Invalid longitude. Value submitted is outside acceptable range.

Please review the security related errors that could occur for this method in the Security Errors section.

findPointByAddress

The *findPointByAddress* method allows you to geocode an address into a latitude and longitude. If a partial address is submitted then a list of candidate matches is returned.

Request Parameters: FindPointByAddressRequest

Name	Data Type	Comments
Address	Address	Address or partial address to search on

The definition of Address can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd

Response Parameters: FindPointByAddressResponse

Name	Data Type	Comments
PointCandidates	Collection<PointCandidate>	Returns a single point that matches the address submitted.

The definition of *PointCandidate* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd

Error Codes

Code	Message
100002	Street value is required.
100003	State or zip code value is required.
100004	Country code submitted is invalid. Only US and CA are valid.
100005	Zip code value is invalid. Zip code format must match USPS or Canadian postal standards.
100006	Invalid state/province code. State/province codes must be a valid USPS or Canadian postal standard value.
030053	Supplied address is insufficient to find geo-point:

Please review the security related errors that could occur for this method in the Security Errors section.

LocationsManagerV1

Locations Manager Web Service offers access to and the ability to maintain locations. You can use Locations Manager Web Service to find, add, update, and delete locations.

Service Location

http://services.discretewireless.com/v2009_1/LocationsManagerV1.asmx

(HTTP GET is disabled for security reasons on service URIs.)

WSDL Location

http://services.discretewireless.com/v2009_1/LocationsManagerV1.wsdl

Methods

- **findLocationById**
- **findLocationsByBeginsWith**
- **findLocationsByName**
- **findAllLocations**
- **addLocation**
- **updateLocation**
- **deleteLocationById**

findLocationById

The *findLocationById* method returns a location for the submitted identifier.

Request Parameters: FindLocationByIdRequest

Name	Data Type	Comments
Id	String	The unique identifier of the requested location

Response Parameters: FindLocationByIdResponse

Name	Data Type	Comments
Name	String	A string to identify a location.
CenterLat	double	The central latitude of the location.
CenterLon	double	The central longitude of the location.
UtcExpirationDate	DateTime	
Id	String	The unique identifier of the location.

The definition of *Location* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

findLocationsByBeginsWith

The *findLocationByBeginsWith* method returns each location where its name begins with the passed string.

Request Parameters: FindLocationsByBeginsWithRequest

Name	Data Type	Comments
BeginsWith	String	A string of letters that appears at the beginning of the location name

Response Parameters:FindLocationsByBeginsWithResponse

Name	Data Type	Comments
Locations	Collection<`Location`>	A collection of locations where the name begins with the passed string

The definition of *Location* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Code	Message
1000010	The string you have requested to search on contains invalid characters.

Please review the security related errors that could occur for this method in the Security Errors section.

findLocationsByName

The *findLocationsByName* method returns each location where its name matches the submitted string.

Request Parameters: FindLocationsByNameRequest

Name	Data Type	Comments
Name	String	A string matching the location name.

Response Parameters: FindLocationsByNameResponse

Name	Data Type	Comments
Locations	Collection<Location>	A collection of locations where the name matches the Name request parameter.

The definition of *Location* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

findAllLocations

The *findAllLocations* method returns all locations.

Request Parameters: FindAllLocationsRequest

Name	Data Type	Comments
MaxResults	Integer	Maximum number of locations to return. Default number = 1000

Response Parameters: FindAllLocationsResponse

Name	Data Type	Comments
Locations	Collection<Location>	A collection of all locations

The definition of *Location* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

addLocation

The *addLocation* method creates a location with the passed data.

Request Parameters: AddLocationRequest

Name	Data Type	Comments
Location	Location	The new location. Only the required fields should be entered.

The definition of *Location* can be found in the XML schema located at
http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Response Parameters: AddLocationResponse

Name	Data Type	Comments
Id	String	The unique identifier for the new location
TransactionDetail	`TransactionDetail`	The detail for the location creation transaction

The definition of the *TransactionDetail* can be found in the XML schema located at
http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Code	Message
100007	Invalid latitude. Value submitted is outside acceptable range.
100008	Invalid longitude. Value submitted is outside acceptable range.

Please review the security related errors that could occur for this method in the Security Errors
section.

updateLocation

The *updateLocation* method updates a location with the passed data.

Request Parameters: UpdateLocationRequest

Name	Data Type	Comments
Location	Location	The location to be updated

The definition of *Location* can be found in the XML schema located at
http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Response Parameters: UpdateLocationResponse

Name	Data Type	Comments
transactionDetail	`TransactionDetail`	The detail for the location update transaction

The definition of *TransactionDetail* can be found in the XML schema located at
http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Code	Message
100007	Invalid latitude. Value submitted is outside acceptable range.
100008	Invalid longitude. Value submitted is outside acceptable range.
100009	The ID or External ID of the location you have requested to update is invalid.
030002	The location you are trying to update does not exist.

Please review the security related errors that could occur for this method in the Security Errors section.

deleteLocationById

The *deleteLocationById* method updates a location with the passed data.

Request Parameters: DeleteLocationByIdRequest

Name	Data Type	Comments
Id	String	The unique identifier of the requested location

The definition of *Location* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/LocationsManagerV1.xsd.

Response Parameters: DeleteLocationByIdResponse

Name	Data Type	Comments
transactionDetail	TransactionDetail	The detail for the location update transaction

The definition of *TransactionDetail* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/LocationsManagerV1.xsd .

Error Codes

Code	Message
030022	Invalid 'Id' string is specified.
030023	Specified location Id does not exist.

Please review the security related errors that could occur for this method in the Security Errors section.

LocationsManagerV2

Locations Manager Web Service offers access to and the ability to maintain locations with support for External Reference ID's. You can use Locations Manager Web Service to find, add, update, and delete locations and location groups.

Service Location

http://services.discretewireless.com/v2009_2/LocationsManagerV2.asmx

(HTTP GET is disabled for security reasons on service URIs.)

WSDL Location

http://services.discretewireless.com/v2009_2/LocationsManagerV2.wsdl

Methods

- **getLocationDetails**
- **createLocation**
- **modifyLocation**
- **removeLocation**
- **getLocationGroupDetails**
- **createLocationGroup**
- **modifyLocationGroup**
- **removeLocationGroup**

getLocationDetails

Retrieve all details for Locations that meet the given criteria.

Request Parameters: GetLocationDetailsRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned per page, should be between 1 and 1000 inclusive. NOTE: C# clients need to set 'MaxResultsSpecified' to True in order for MaxResults to be sent to the server as part of the request.
Page	Int	Specifies the page of the results to retrieve. By default, if maxResults is not set, pages are broken up into groups of 1000 results and defaults to page 1. The number of results per page can be limited by defining maxResults.
FilterCriteria	FilterCriteria	A key/value object that accepts user specified fields that are used to limit the search results. Currently available fields are listed below. Keys are case insensitive and can be used in conjunction with eachother. An exception is thrown if an invalid filterKey is provided.
SortBy	String	Field used to sort the results. Any of the keys listed with the fiilterCriteria can be used as an acceptable sort value.
Ascending	Boolean	Specifies if the results are in ascending order.

Response Parameters: GetLocationDetailsResponse

Name	Data Type	Comments
Location	List<LocationPlusAttributes>	Contains all data associated with the Location.

The definition of GetLocationDetails`Request and GetLocationDetailsRsponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/LocationManagerV2.xsd.

Available Filter Criteria key values

Key	Comments
locationId	Nextraq definded reference ID
locationName	Name of Location
locationExternalReferenceId	Customer defined reference ID
includeAttributes	If the value of this criterion is "true", the response will include detailed attributes for each respective location (see note below).

Note about detailed attributes

Attributes are defined as key-value pairs, where the key is a string and the value is one of several data types. The following table lists all supported attributes.

Key	Value Type	Comments
Shape	String	Geometric shape describing the overall structure of the location's geofence. Possible values are "CIRCLE", "RECTANGLE", and "POLYGON". Note that circles typically contain 12 unique points, rectangles typically contain 4 unique points, and polygons can contain 3 or more unique points.
WKT	String	String representing the Well Known Text data format of the location's geofence. If the geofence is invalid in any way, this attribute will be omitted in favor of the WKTError attribute.
WKTError	String	If the geofence is invalid (e.g. self-intersecting), this attribute will describe the reason. Note that this attribute is mutually exclusive with the WKT attribute.
NumberOfConnectedPoints	Integer	The number of points or vertices that make up the geofence, where the first and last points are identical. This attribute tells you how many Point_* attributes to expect. The first point attribute will be Point_0 and the last point attribute will be Point_N, where N = NumberOfConnectedPoints – 1.
Point_*	Point	Variable number of zero-indexed points representing the vertices of the geofence. The total number of point

		attributes to expect is defined by the NumberOfConnectedPoints attribute.

Error Codes

Code	Message
030006	No Mapping exists for key value
030096	Invalid date
030097	Invalid Job Assignment state.

Please review the security related errors that could occur for this method in the Security Errors section.

createLocation

The *createLocation* method creates a location with the passed data.

Request Parameters: AddLocationRequest

Name	Data Type	Comments
Location	Location	The new location. Only the required fields should be entered.
AdditionalAttributes	AdditionalAttributes	Currently supports 'StringValue' field with the key 'PostalCode'. This is to allow for international postal codes.

The definition of *Location and AdditionalAttributes* can be found in the XML schema located at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Note: AdditionalAttributes will include updates as new fields/functionality is added to LocationManagerV2.

Response Parameters: AddLocationResponse

Name	Data Type	Comments
Id	String	The unique identifier for the new location
TransactionDetail	TransactionDetail	The detail for the location creation transaction

The definition of the *TransactionDetail* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Code	Message
100007	Invalid latitude. Value submitted is outside acceptable range.
100008	Invalid longitude. Value submitted is outside acceptable range.
030002	The location you are trying to update does not exist.

Please review the security related errors that could occur for this method in the Security Errors section.

modifyLocation

The *modifyLocation* method updates a location with the passed data.

Request Parameters: ModifyLocationRequest

Name	Data Type	Comments
Location	Location	The location to be updated
AdditionalAttributes	AdditionalAttributes	Currently unsupported dynamic attributes

The definition of *Location* can be found in the XML schema located at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Note: AdditionalAttributes will include updates as new fields/functionality is added to LocationManagerV2 but is currently empty.

Response Parameters: ModifyLocationResponse

Name	Data Type	Comments
transactionDetail	`TransactionDetail`	The detail for the location update transaction

The definition of *TransactionDetail* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Code	Message
100007	Invalid latitude. Value submitted is outside acceptable range.
100008	Invalid longitude. Value submitted is outside acceptable range.
100009	The ID or External ID of the location you have requested to update is invalid.
030002	The location you are trying to update does not exist.

Please review the security related errors that could occur for this method in the Security Errors section.

removeLocation

The *removeLocation* method deletes a location with the passed ID.

Request Parameters: DeleteLocationByIdRequest

Name	Data Type	Comments
Id	String	The unique identifier of the requested location

The definition of *Location* can be found in the XML schema located at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd

Response Parameters: DeleteLocationByIdResponse

Name	Data Type	Comments
transactionDetail	TransactionDetail	The detail for the location update transaction

The definition of *TransactionDetail* can be found in the XML schema located at http://services.discretewireless.com/v2009_2/xsd/LocationsManagerV2.xsd .

Error Codes

Code	Message
030022	Invalid 'Id' string is specified.
030023	Specified location Id does not exist.

Please review the security related errors that could occur for this method in the Security Errors section.

getLocationGroupDetails

Retrieve all details for location groups that meet the given criteria.

Request Parameters: GetLocationDetailsRequest

Name	Data Type	Comments
MaxResults	Int	Max number of records returned per page, should be between 1 and 1000 inclusive. NOTE: C# clients need to set 'MaxResultsSpecified' to True in order for MaxResults to be sent to the server as part of the request.
Page	Int	Specifies the page of the results to retrieve. By default, if maxResults is not set, pages are broken up into groups of 1000 results and defaults to page 1. The number of results per page can be limited by defining maxResults.
FilterCriteria	FilterCriteria	A key/value object that accepts user specified fields that are used to limit the search results. Currently available fields are listed below. Keys are case insensitive and can be used in conjunction with eachother. An exception is thrown if an invalid filterKey is provided.
SortBy	String	Field used to sort the results. Any of the keys listed with the fiilterCriteria can be used as an acceptable sort value.
Ascending	Boolean	Specifies if the results are in ascending order.

Response Parameters: GetLocationDetailsResponse

Name	Data Type	Comments
Groups	List<LocationGroupWithId>	Contains data associated with the Location Group.

The definition of GetLocationDetails`Request and GetLocationDetailsRsponse` can be found in the XML schema at
http://services.discretewireless.com/v2009_2/xsd/LocationManagerV2.xsd.

Available Filter Criteria key values

Key	Comments
locationGroupId	Nextraq definded reference ID
locationGroupName	Name of Location Group

Error Codes

Code	Message
030006	No Mapping exists for key value

Please review the security related errors that could occur for this method in the Security Errors section.

createLocationGroup

The *createLocation* method creates a location with the passed data.

Request Parameters: AddLocationGroupRequest

Name	Data Type	Comments
LocationGroup	LocationGroup	The new locationGroup, all fields should be supplied.
AdditionalAttributes	AdditionalAttributes	Currently unsupported dynamic attributes

The definition of *LocationGroup and AdditionalAttributes* can be found in the XML schema located at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Note: AdditionalAttributes will include updates as new fields/functionality is added to LocationManagerV2.

Response Parameters: AddLocationGroupResponse

Name	Data Type	Comments
Id	String	The unique identifier for the new location Group.
TransactionDetail	`TransactionDetail`	The detail for the location creation transaction

The definition of the *TransactionDetail* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Code	Message
030002	A location you are referencing does not exist.
030110	Invalid Location Group name.

Please review the security related errors that could occur for this method in the Security Errors section.

modifyLocationGroup

The *modifyLocationGroup* method updates a location group with the passed data.

Request Parameters: ModifyLocationGroupRequest

Name	Data Type	Comments
LocationGroup	LocationGroupWithId	The location to be updated

| AdditionalAttributes | AdditionalAttributes | Currently unsupported dynamic attributes |

The definition of *LocationGroup* can be found in the XML schema located at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Note: AdditionalAttributes will include updates as new fields/functionality is added to LocationManagerV2 but is currently empty.

Response Parameters: ModifyLocationGroupResponse

Name	Data Type	Comments
transactionDetail	TransactionDetail	The detail for the location update transaction

The definition of *TransactionDetail* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Code	Message
030109	The ID of the location Group you are referencing is invalid.
030002	A location you are referencing in the group is invalid.
030110	Invalid Location Group name.

Please review the security related errors that could occur for this method in the Security Errors section.

removeLocationGroup

The *removeLocationGroup* method deletes a location group with the passed ID.

Request Parameters: RemoveLocationGroupRequest

Name	Data Type	Comments
Id	String	The unique identifier of the requested location
AdditionalAttributes	AdditionalAttributes	Currently unsupported dynamic attributes

Response Parameters: DeleteLocationGroupResponse

Name	Data Type	Comments

transactionDetail	`TransactionDetail`	The detail for the location update transaction

The definition of *TransactionDetail* can be found in the XML schema located at
http://services.discretewireless.com/v2009_2/xsd/LocationsManagerV2.xsd .

Error Codes

Code	Message
030022	Invalid 'Id' string is specified.
030023	Specified location Id does not exist.

Please review the security related errors that could occur for this method in the Security Errors section.

MobileManagerV1

Mobile Manager Web Service offers access to mobiles and fleets. You can use Mobile Manager Web Service to retrieve detailed information for mobiles in your account.

Service Location

http://services.discretewireless.com/v2009_1/MobileManagerV1.asmx

(HTTP GET is disabled for security reasons on service URIs.)

WSDL Location
http://services.discretewireless.com/v2009_1/MobileManagerV1.wsdl

Methods

findMobileById
findMobilesByName
findMobilesByDriverName
findMobilesByBeginsWith
findAllMobiles
findAllMobilesWithAdditionalFields
findClosestMobilesToLatLon
findAllFleets
updateMobile
getAccelerometerEvents
getMobileSensorEventsSince
getFleetSensorEventsSince
getDailyMileageByStateByMobile
getMobileSensorEventsBetween
createMobileField
getAllMobileFields
updateMobileField
deleteMobileField
pingMobiles

findMobileById

The *findMobileByHardwareId* method returns a mobile for the submitted hardware Id.

Request Parameters: FindMobileByIdRequest

Name	Data Type	Comments
Id	String	A string matching the hardware Id of the mobile. This is the DeviceMan parameter in `Mobile`.

Response Parameters: FindMobileByIdResponse

Name	Data Type	Comments
Mobile	`Mobile`	The mobile matching the submitted hardware id

The definition of *Mobile* can be found in the XML schema located at
http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

findMobilesByName

The *findMobilesByName* method returns each mobile where its name matches the submitted string.

Request Parameters: FindMobilesByNameRequest

Name	Data Type	Comments
Name	String	A string matching the requested mobile name

Response Parameters: FindMobilesByNameResponse

Name	Data Type	Comments
Mobiles	Collection<`Mobile`>	A collection of mobiles whose name matches the submitted string

The definition of *Mobile* can be found in the XML schema located at
http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

findMobilesByDriverName

The *findMobilesByDriverName* method returns each mobile assigned to a driver whose name matches the submitted strings.

Request Parameters: FindMobilesByDriverNameRequest

Name	Data Type	Comments
FirstName	String	A string matching the requested driver's first name
LastName	String	A string matching the requested driver's last name

Response Parameters: FindMobilesByDriverNameResponse

Name	Data Type	Comments
Mobiles	Collection<`Mobile`>	A collection of mobiles where the assigned driver's name matches the submitted strings

The definition of *Mobile* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

findMobilesByBeginsWith

The *findMobilesByBeginsWith* method returns each mobile where its name begins with the passed string.

Request Parameters: FindMobilesByBeginsWithRequest

Name	Data Type	Comments
BeginsWith	String	A string of letters that appears at the beginning of the mobile name

Response Parameters: FindMobilesByNameResponse

Name	Data Type	Comments
Mobiles	Collection<`Mobile`>	A collection of mobiles where the name begins with the submitted string

The definition of *Mobile* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

findAllMobiles

The *findAllMobiles* method returns all mobiles.

Request Parameters: FindAllMobilesRequest

Name	Data Type	Comments

Response Parameters: FindAllMobilesResponse

Name	Data Type	Comments
Mobiles	Collection<Full`Mobile`>	A collection of all mobiles

The definition of *Mobile* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

findAllMobilesWithAdditionalFields

The *findAllMobiles* method returns all mobiles.

Request Parameters: FindAllMobilesWithAdditionalFieldsRequest

Name	Data Type	Comments

Response Parameters: FindAllMobilesWithAdditionalFieldsResponse

Name	Data Type	Comments
Mobiles	Collection<`WSMobile`>	A collection of all mobiles

The definition of *Mobile* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

findClosestMobilesToLatLon

The *findClosestMobilesToLatLon* method returns the closest mobiles to the location designated by the passed latitude and longitude. If a `FleetId` is passed in, then only mobiles in that fleet are returned; otherwise, any mobile can be returned. The number of mobiles returned is determined by the passed maximum results parameter. If this parameter is set to zero or a value greater than 100, a maximum of 100 mobiles are returned.

Request Parameters: FindClosestMobilesToLatLonRequest

Name	Data Type	Comments
Lat	double	Latitude
Lon	double	Longitude
FleetId	String	The unique identifier for the fleet to be searched; if not passed, service will search all mobiles
MaxResults	Integer	Maximum number of mobiles to return

Response Parameters: FindClosestMobilesToLatLonResponse

Name	Data Type	Comments
Mobiles	Collection<`MobileWithLocation`> (MobileWithLocation uses Mobile as the element name in the Response)	A collection of the mobiles closest to the passed latitude/longitude

The definition of *MobileWithLocation* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

findAllFleets – deprecated please use FleetManager.findAllFleets

The *findAllFleets* method returns all fleets.

Request Parameters: FindAllFleetsRequest

Name	Data Type	Comments

Response Parameters: FindAllFleetsResponse

Name	Data Type	Comments
Fleets	Collection<`Fleet`>	A collection of all fleets

The definition of *Fleet* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

updateMobile

The *updateMobile* method will update the `Name` of the `DeviceMan` specified. Any other inputs will be ignored. The `DeviceMan` field is synonymous with the unit's phone number or hardware id.

Request Parameters: UpdateMobileRequest

Name	Data Type	Comments
Name	String	The name of mobile unit
VIN	String	Optional. The mobile hardware Id.
Notes	String	Optional. Description
ActivationDateTime	String	Optional.System ID.
MapColor	String	Optional. Six hexadecimal characters representing a map color. See Enumerations section for list of acceptable colors. Defaults to black if not specified.
DeviceMan		is synonymous with the unit's phone number or hardware id.
DeviceType	String	Optional. Mobile type.
Msisdn		Optional.
Id	String	Optional. System ID.

Response Parameters: UpdateMobileResponse

Name	Data Type	Comments
transactionDetail	`TransactionDetail`	Confirmation that the update was successful.

The definition of *TransactionDetail* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Code	Message
040003	The mobile specified does not exist in your account.
040004	The name specified is not unique to your account.

getAccelerometerEvents

The *getAccelerometerEvents* method returns a list of `AccelerometerEvent`s for a specified mobile within a range of dates using the `MobileId` (mobile unit hardware ID) belonging to an account. The range of dates is limited to 30 days.

Request Parameters: GetAccelerometerEventsRequest

Element Name	Data Type	Comments
MobileId	string	Required. Mobile hardware ID.
StartDate	dateTime	Required. Starting date for search.
EndDate	dateTime	Required. Ending date for search.

Response Parameters: GetAccelerometerEventsResponse

Name	Data Type	Comments
AccelerometerEventList	Collection<AccelerometerEvent>	List of AccelerometerEvents

The definition of *AccelerometerEvent* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Code	Message
030021	Service is unavailable at present time.
030117	Date range exceeded.

getMobileSensorEventsSince

The *getMobileSensorEventsSince* method returns `SensorEvent`s since the specified date for a specified mobile. *AccountUserManagerV1* has *getAllAccountUsers* to provide related information. The maximum number of sensor events is set to 3000. If `IsMoreThanMaxResult` in the response is set to 'true', there are more than 3000 sensor events found since the specified date until now. Please use *getMobileSensorEventsBetween* to narrow date range. The `StartDate` and `EndDate` response parameters show the range of current 3000 sensor events.

Request Parameters: GetMobileSensorEventsSinceRequest

Name	Data Type	Comments
MobileId	String	A mobile hardware Id.
Date	DateTime	Required. Specifies the start date for this report. (Only date is significant, e.g. 2010-03-05)
UserId	String	Required. A string representation of the system ID for a valid 'AccountUser'.

Response Parameters: GetMobileSensorEventsResponse

Name	Data Type	Comments
IsMoreThanMaxResult	boolean	Flag to indicate whether there are more than 3000 sensor events found.
StartDate	dateTime	The same time as specified in 'Date' of request.
EndDate	dateTime	Current time if there are no more than 3000 sensor events; otherwise the time found in 'Date' of the last event of 3000 events.
SensorEventList	Collection<`SensorEvent`>	List of `SensorEvent`s.

The definition of *SensorEvent* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/MobileManagerV1.xsd.

Error Codes

Code	Message
030004	Invalid mobile hardware ID.
030023	Specified user Id does not exist.
030008	Date format is invalid.

Please review the security related errors that could occur for this method in the Security Errors section.

getMobileSensorEventsBetween

The *getMobileSensorEventsBetween* method returns `SensorEvent`s between specified dates for specified mobile. *AccountUserManagerV1* has *getAllAccountUsers* to provide related information. The maximum number of sensor events is set to 3000. If `IsMoreThanMaxResult` in the response is set to 'true', there are more than 3000 sensor events found between specified dates. Please narrow the date range. The `StartDate` and `EndDate` response parameters show the range of current 3000 sensor events.

Name	Data Type	Comments
MobileId	String	A mobile hardware Id.
StartDate	DateTime	Required parameter to specify the start date for this report. (Only date is significant, e.g. 2010-03-05)
EndDate	DateTime	Required parameter to specify the end date for this report. (Only date is significant, e.g. 2010-03-05)
UserId	String	Required. A string representation of the system ID for a valid 'AccountUser'.

Response Parameters: GetMobileSensorEventsResponse

Error Codes

Code	Message
030004	Invalid mobile hardware ID.
030023	Specified user Id does not exist.
030008	Date format is invalid.

Please review the security related errors that could occur for this method in the Security Errors section.

getFleetSensorEventsSince

The *getFleetSensorEventsSince* method returns `SensorEvent`s since specified date for specified mobile fleet. *AccountUserManagerV1* has *getAllAccountUsers* to provide related information. The maximum number of sensor events is set to 3000. If `IsMoreThanMaxResult` in the response is set to 'true', there are more than 3000 sensor events found since specified date. Please use *getMobileSensorEventsBetween* to reduce the number of mobiles.

Request Parameters: GetFleetSensorEventsSinceRequest

Name	Data Type	Comments
FleetId	String	A string representation of a fleet Id.
Date	DateTime	Required parameter to specify the start date for this report. (Only date is significant, e.g. 2010-03-05)
UserId	String	Required. A string representation of the system ID for a valid 'AccountUser'.

Response Parameters: GetFleetSensorEventsSinceResponse

Name	Data Type	Comments
IsMoreThanMaxResult	boolean	Flag to indicate whether there are more than 3000 sensor events found.
SensorEventList	List of SensorEvent	List of `SensorEvent`. `SensorEvent` is a complex type.

The definition of *SensorEvent* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/MobileManagerV1.xsd.

Error Codes

Code	Message
030045	Invalid fleet ID.
030023	Specified user Id does not exist.
030008	Date format is invalid.

Please review the security related errors that could occur for this method in the section.

getDailyMileageByStateByMobile

The *getDailyMileageByStateByMobile* method returns mileage by state list for the specified date of a specified mobile. *AccountUserManagerV1* has *getAllAccountUsers* to provide related information.

Request Parameters: GetDailyMileageByStateByMobileRequest

Name	Data Type	Comments
MobileId	String	A mobile hardware Id.
Date	DateTime	Required parameter to specify the date for this report. (Only date is significant, e.g. 2010-03-05)
UserId	String	Required. A string representation of the system ID for a valid 'AccountUser'.

Response Parameters: GetDailyMileageByStateByMobileResponse

Name	Data Type	Comments
MileageByStateList	Collection<`MileageByState`>	

Error Codes

Code	Message
030004	Invalid mobile hardware ID.
030008	Date format is invalid.
030023	Specified user Id does not exist.

Please review the security related errors that could occur for this method in the section.

createMobileField

The *createMobileField* method creates an account user with specified parameters. The specified first name and last name combination has to be unique.

Request Parameters: CreateMobileFieldRequest

Name	Data Type	Comments
Name	String	Mobile field name. It has to be non-blank and unique.
ListDisplay	boolean	

Response Parameters: `CUDResponse`

Name	Data Type	Comments
Result	String	Mobile Field ID in string format.

Error Codes

Code	Message
030074	Mobile field name has to be non-blank and unique.

Please review the security related errors that could occur for this method in the Security Errors section.

getAllMobileFields

The *getAllMobileFields* method returns all mobile field types.

Request Parameters: GetAllMobileFieldsRequest

Name	Data Type	Comments

Response Parameters: GetMobileFieldsResponse

Name	Data Type	Comments
MobileField	MobileFieldType	Mobile field type. This element man occur zero or more times.

Error Codes

Code	Message
030074	Mobile field name has to be non-blank and unique

Please review the security related errors that could occur for this method in the Security Errors section.

getAllMobileFields

The *getAllMobileFields* method returns all mobild field types.

Request Parameters: GetAllMobileFieldsRequest

Name	Data Type	Comments

Response Parameters: GetMobileFieldsResponse

Name	Data Type	Comments
MobileField	MobileFieldType	Mobile field type. This element man occur zero or more times.

Error Codes

Code	Message

Please review the security related errors that could occur for this method in the Security Errors section.

updateMobileField

The *updateMobileField* method returns all mobile field types.

Request Parameters: UpdateMobileFieldRequest

Name	Data Type	Comments
Name	String	Mobile field name. It has to be non-blank and unique.
ListDisplay	boolean	
Id	String	System ID.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	Mobile Field ID in string format.

Error Codes

Code	Message
030074	Mobile field name has to be non-blank and unique

Please review the security related errors that could occur for this method in the Security Errors section.

deleteMobileField

The *deleteMobileField* method marks the specified mobile field type as deleted.

Request Parameters: DeleteMobileFieldRequest

Name	Data Type	Comments
Id	String	ID used to identify the Mobile field type which will be deleted.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	The user ID in string format.

The definition of `DeleteMobileFieldRequest` can be found in the XML schema at http://services.discretewireless.com/v2009_1/xsd/MobileManagerV1.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_1/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030022	Invalid 'Id' string is specified.
030023	Specified mobile field type Id does not exist.
030021	Service is unavailable at present time.

Please review the security related errors that could occur for this method in the Security Errors section.

pingMobiles

The *pingMobiles* method allows a ping to up to be sent to limited number of mobiles. Currently that number is 50 but may be changed at any time. The response only indicates that if each mobile has been sent a ping request not that the ping has been received. To see if a ping response was sent by the mobile check one of the TrackManager methods for tracks from the pinged devices.

Request Parameters: PingMobilesRequest

Name	Data Type	Comments
HardwareId	String	HardwareId used to identify the Mobile. This parameter may be repeated up to a limit. Currently that limit is 50 but it may be changed at any time.

Response Parameters: PingMobilesResponse

Name	Data Type	Comments
PingMobileResponses	Collection<PingMobileResponse>	Contains a collection of `PingMobileResponses`

PingMobileResponse

Name	Data Type	Comments
HardwareId	String	HardwareId used to identify the Mobile
Code	int	0 if successful, non-zero if an error.
Description	String	Description associated with the Code.

PingMobileResponse Codes

Code	Message
0	Ping successfully sent to Mobile.
030004	Invalid mobile hardware ID. Mobile may not be in accounnt.
030078	Mobile does not support ping.

The definition of PingMobilesRequest can be found in the XML schema at http://services.discretewireless.com/v2009_1/xsd/MobileManagerV1.xsd.

The definitions of PingMobilesResponse can be found in the XML schema at http://services.discretewireless.com/v2009_1/xsd/MobileManagerV1.xsd.

Error Codes

Code	Message
030021	Service is unavailable at present time.

Please review the security related errors that could occur for this method in the Security Errors section.

initializeOdometer

Initialize the odometer for the given mobile.

Request Parameters: InitializeOdometerRequest

Name	Data Type	Comments
mobileHardwareId	String	ID used to identify the Mobile
odometerValue	Int	Value that the odometer will be set to.
EffectiveDate	Datetime	Date that the update will take effect.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	The result of the update.

CUDResponse Codes

Code	Message
Success	Odometer was successfully updated.
Failure	Failed to update mobile's odometer

The definition of `InitializeOdometerRequest` can be found in the XML schema at http://services.discretewireless.com/v2009_1/xsd/MobileManagerV1.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_1/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030004	Invalid mobile hardware ID. Hardware ID submitted is not found.

Please review the security related errors that could occur for this method in the Security Errors section.

initializeEngineHours

Initialize the engine hours for the given mobile.

Request Parameters: InitializeEngineHoursRequest

Name	Data Type	Comments
mobileHardwareId	String	ID used to identify the Mobile
engineHoursValue	Int	Value that the engine hours will be set to.
EffectiveDate	Datetime	Date that the update will take effect.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	The result of the update.

CUDResponse Codes

Code	Message
Success	Engine hours successfully updated.
Failure	Failed to update mobile's engine hours

The definition of `InitializeEngineHoursRequest` can be found in the XML schema at
http://services.discretewireless.com/v2009_1/xsd/MobileManagerV1.xsd.

The definitions of `CUDResponse` can be found at
http://services.discretewireless.com/v2009_1/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030004	Invalid mobile hardware ID. Hardware ID submitted is not found.

Please review the security related errors that could occur for this method in the Security Errors section.

getMobileDetails

Retrieve all details for mobiles that meet the given criteria.

Request Parameters: GetMobileDetailsRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned per page, should be between 1 and 1000 inclusive. NOTE: C# clients need to set 'MaxResultsSpecified' to True in order for MaxResults to be sent to the server as part of the request.
Page	Int	Specifies the page of the results to retrieve. By default, if maxResults is not set, pages are broken up into groups of 1000 results and defaults to page 1. The number of results per page can be limited by defining maxResults.
FilterCriteria	FilterCriteria	A key/value object that accepts user specified fields that are used to limit the search results. Currently available fields are listed below. As keys are case insensitive and can be used in conjunction with eachother. An exception is thrown if an invalid filterKey is provided.
SortBy	String	Field used to sort the results. Any of the keys listed with the fiilterCriteria can be used as an acceptable sort value.
Ascending	Boolean	Specifies if the results are in ascending order.

Response Parameters: GetMobileDetailsResponse

Name	Data Type	Comments
Mobile	List<MobilePlusAttributes>	Contains all data associated with the mobile.

The definition of GetMobileDetails`Request and GetMobileDetailsRsponse` can be found in the XML schema at http://services.discretewireless.com/v2009_1/xsd/MobileManagerV1.xsd.

Available Filter Criteria key values

Key	Comments
mobileHardwareId	Mobile Unit hardware ID
mobileName	Mobile Unit name

Error Codes

Code	Message
030006	No Mapping exists for key value

Please review the security related errors that could occur for this method in the Security Errors section.

AlertManagerV1

Alert Manager Web Service offers access to alerts and alert events. You can use Alert Manager Web Service to get a list of all alert types as well as alert events by mobile, by fleet, and for all mobiles.

Service Location

http://services.discretewireless.com/v2009_1/AlertManagerV1.asmx
(HTTP GET is disabled for security reasons on service URIs.)

WSDL Location

http://services.discretewireless.com/v2009_1/AlertManagerV1.wsdl

Methods

- **getAlertTypes**
- **getAlertEventsByTypeByMobileSince**
- **getAlertEventsByTypeByFleetSince**
- **getAlertEventsByTypeAllMobilesSince**

getAlertTypes

The *getAlertTypes* method returns all alert types.

Request Parameters: GetAlertTypesRequest

Name	Data Type	Comments

Response Parameters: GetAlertTypesResponse

Name	Data Type	Comments
AlertTypes	Collection<AlertType>	A collection of all alert types

The definition of the *AlertType* can be found in the XML schema located at
http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

getAlertEventsByTypeByMobileSince

The *getAlertEventsByTypeByMobileSince* method returns all `AlertEvents` of the submitted type that has occurred since the passed date/time for the submitted mobile identifier. The maximum number of alert events returned is 1000.

Request Parameters: GetAlertEventsByTypeByMobileSinceRequest

Name	Data Type	Comments
Type	int	The type of alert event
MobileId	String	A string matching the unique identifier of the mobile
SinceDate	DateTime	The date/time to use as the starting point for the alert events

Response Parameters: GetAlertEventsByTypeByMobileSinceResponse

- A collection of zero or more AlertEvent, and it associated Track, Data Types that match the submitted type and have occurred since the passed date/time for a mobile that is in the submitted fleet

Name	Data Type	Comments
AlertEvent	`AlertEvent`	An alert event that matches the submitted type and mobile and have occurred since the passed date/time
Track	`Track`	The track associated with the alert event.

The definition of the *AlertEvent* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

getAlertEventsByTypeByFleetSince

The *getAlertEventsByTypeByFleetSince* method returns all `AlertEvents` of the submitted type that has occurred since the passed date/time for a mobile that is included in the submitted fleet. The maximum number of alert events returned is 1000.

Request Parameters: GetAlertEventsByTypeByFleetSinceRequest

Name	Data Type	Comments
Type	int	The type of alert event
FleetId	String	A string matching the unique identifier of the fleet.
SinceDate	DateTime	The date/time to use as the starting point for the alert events

Response Parameters: GetAlertEventsByTypeByFleetSinceResponse

Name	Data Type	Comments
AlertEvents	Collection <`AlertEvents & Tracks`>	A collection of all alert events that match the submitted type and have occurred since the passed

		date/time for a mobile that is in the submitted fleet

AlertEvents & Tracks

Name	Data Type	Comments
AlertEvent	`AlertEvent`	An alert event that matches the submitted type and mobile and have occurred since the passed date/time
Track	`Track`	The track associated with the alert event.

The definition of the *AlertEvent* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

getAlertEventsByTypeAllMobilesSince

The *getAlertEventsByTypeAllMobilesSince* method returns all `AlertEvent`s of the passed `Type` that have occurred since the passed date/time for all mobiles. The maximum number of alert events returned is 1000.

Request Parameters: GetAlertEventsByTypeAllMobilesSinceRequest

Name	Data Type	Comments
Type	int	The type of alert event
SinceDate	DateTime	The date/time to use as the starting point for the alert events.

Response Parameters: GetAlertEventsByTypeAllMobilesSinceResponse

Name	Data Type	Comments
AlertEvents	`Collection <AlertEvents & Tracks>`	A collection of all alert events that match the submitted type and have occurred since the passed date/time for a mobile that is in the submitted fleet

AlertEvents & Tracks

Name	Data Type	Comments
AlertEvent	`AlertEvent`	An alert event that matches the submitted type and mobile and have occurred since the passed date/time
Track	`Track`	The track associated with the alert event.

The definition of the *AlertEvent* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

TrackManagerV1

Track Manager Web Service offers access to `Tracks`. You can use Track Manager Web Service to get the current location and a list of tracks by mobiles and fleets.

Service Location

http://services.discretewireless.com/v2009_1/TrackManagerV1.asmx
(HTTP GET is disabled for security reasons on service URIs.)

WSDL Location

http://services.discretewireless.com/v2009_1/TrackManagerV1.wsdl

Methods

- **getCurrentLocationOfMobile**
- **getCurrentLocationOfFleet**
- **getCurrentLocationOfAllMobiles**
- **getTracksByMobileSince**
- **getTracksByFleetSince**
- **getTracksForAllMobilesSince**
- **getTracksWithDistanceTraveledForAllMobilesSince**
- **getTracksForAllMobilesSinceReceived**
- **getTracksByMobileBetween**
- **getTracksByMobileBetweenV2**
- **getTracksByFleetBetween**
- **getTracksForAllMobilesBetween**
- **getTracksWithDistanceTraveledForAllMobilesBetween**
- **addTrack**

getCurrentLocationOfMobile

The *getCurrentLocationOfMobile* method returns the last track for the submitted mobile.

Request Parameters: GetCurrentLocationOfMobileRequest

Name	Data Type	Comments
Name	String	A string matching the unique name of the mobile

Response Parameters: GetCurrentLocationOfMobileResponse

Name	Data Type	Comments
Track	Track	The last track of the mobile matching the supplied mobile

The definition of *Track* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

getCurrentLocationOfFleet

The *getCurrentLocationOfFleet* method returns the last `Track` of each mobile in the submitted fleet.

Request Parameters: GetCurrentLocationOfFleetRequest

Name	Data Type	Comments
Name	String	A string matching the unique name of a fleet

Response Parameters: GetCurrentLocationOfFleetResponse

Name	Data Type	Comments
Tracks	Collection<`Track`>	A collection of the last track for each mobile in the supplied fleet

The definition of *Track* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

getCurrentLocationOfAllMobiles

The *getCurrentLocationOfAllMobiles* method returns the last track of every mobile.

Request Parameters: GetCurrentLocationOfAllMobilesRequest

Name	Data Type	Comments

Response Parameters: GetCurrentLocationOfAllMobilesResponse

Name	Data Type	Comments
Tracks	Collection<`Track`>	A collection of the last track of every mobile

The definition of *Track* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

getTracksByMobileSince

The *getTracksByMobileSince* method returns all `Tracks` that have occurred since the passed date/time for the submitted mobile. The maximum number of `Tracks` returned is 1000. If there are more than 1000 `Tracks` since specified date, 1001 tracks would be returned where 1001th tracks would be a dummy `Track` with 'Id' field set to '-1'.

Request Parameters: GetTracksByMobileSinceRequest

Name	Data Type	Comments
Name	String	A string matching the unique name of the mobile
SinceDate	DateTime	The date/time to use as the starting point for the tracks. Value should be in GMT. The date cannot be more than 3 months in the past.

Response Parameters: GetTracksByMobileSinceResponse

Name	Data Type	Comments
Tracks	Collection<`Track`>	A collection of all tracks for the supplied mobile that have occurred since the supplied UTC date/time

The definition of *Track* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

getTracksByFleetSince

The *getTracksByFleetSince* method returns all `Tracks` that have occurred since the passed date/time for all mobiles in the submitted fleet. The maximum number of `Tracks` returned is 5000. If there are more than 5000 `Tracks` since specified date, 5001 `Tracks` would be returned where 5001th track would be a dummy `Track` with 'Id' field set to '-1'.

Request Parameters: GetTracksByFleetSinceRequest

Name	Data Type	Comments
Name	String	A string matching the unique name of the fleet
SinceDate	DateTime	The date/time to use as the starting point for the tracks. Value should be in GMT. The date cannot be more than 3 months in the past.

Response Parameters: GetTracksByFleetSinceResponse

Name	Data Type	Comments
Tracks	Collection<`Track`>	A collection of all tracks for all mobiles in the supplied fleet that have occurred since the supplied UTC date/time

The definition of *Track* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

getTracksForAllMobilesSince

The *getTracksForAllMobilesSince* method returns all `Tracks` that have occurred since the passed date/time for all mobiles in the account. The maximum number of `Tracks` returned is 5000. If there are more than 5000 `Tracks` since the specified date `IsMoreThanMaxResult` is set to 'true' and `StartDate` is set to the timestamp of earliest `Track` of returned `Tracks`, which is the last one in the collection.

Request Parameters: GetTracksForAllMobilesSinceRequest

Name	Data Type	Comments
SinceDate	DateTime	The date/time to use as the starting point for the tracks. Value should be in GMT. The date cannot be more than 3 months in the past.

Response Parameters: `GetTracksResponse`

Name	Data Type	Comments
IsMoreThanMaxResult	boolean	'false' is set, if Collection<Track> does not have more than 5000 tracks; 'true', otherwise.
StartDate	Datetime	Set to the value of 'SinceDate'.
EndDate	Datetime	Set to the value of date this request is serviced (i.e. now), if Collection<Track> does not have more than 5000 tracks. Set to the date and time of the last one in the collection.
Tracks	Collection<`Track`>	A collection of all tracks for all mobiles in the supplied fleet that have occurred since the supplied UTC date/time

The definition of *Track* can be found in http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

The definition of GetTracksResponse can be found in http://services.discretewireless.com/v2009_1/xsd/TrackManagerV1.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

getTracksWithDistanceTraveledForAllMobilesSince

The *getTracksWithDistanceTraveledForAllMobilesSince* method returns all `TrackWithDistanceTraveled`s that have occurred since the passed date/time for all mobiles in the account. The maximum number of `TrackWithDistanceTraveled`s returned is 5000. If

there are more than 5000 `TrackWithDistanceTraveled`s since the specified date `IsMoreThanMaxResult` is set to 'true' and `StartDate` is set to the timestamp of earliest `TrackWithDistanceTraveled` of returned `TrackWithDistanceTraveled`s, which is the last one in the collection.

Request Parameters: GetTracksForAllMobilesSinceRequest

Name	Data Type	Comments
SinceDate	DateTime	The date/time to use as the starting point for the tracks. Value should be in GMT. The date cannot be more than 3 months in the past.

Response Parameters: GetTracksWithDistanceTraveledResponse

Name	Data Type	Comments
IsMoreThanMaxResult	boolean	'false' is set, if Collection<Track> does not have more than 5000 tracks; 'true', otherwise.
StartDate	Datetime	Set to the value of 'SinceDate'.
EndDate	Datetime	Set to the value of date this request is serviced (i.e. now), if Collection<Track> does not have more than 5000 tracks. Set to the date and time of the last one in the collection.
Tracks	Collection <`TrackWithDistanceTraveled`>	A collection of all tracks for all mobiles in the supplied fleet that have occurred since the supplied UTC date/time

The definition of *TrackWithDistanceTraveled* can be found in http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

The definition of `GetTracksWithDistanceTraveledResponse` can be found in http://services.discretewireless.com/v2009_1/xsd/TrackManagerV1.xsd.

Error Codes

Please review the security related errors that could occur for this method in the [Security Errors](#) section.

getTracksForAllMobilesSinceReceived

The *getTracksForAllMobilesSinceReceived* method returns all `TrackWithDistanceTraveled2`s (subtype of `TrackWithDistanceTraveled`) that have been received/inserted (instead of occurred) to database by Nextraq platform since the passed date/time for all mobiles in the account. The maximum number of `TrackWithDistanceTraveled2`s returned is 5000. If there are more than 5000 `TrackWithDistanceTraveled2`s since the specified date `IsMoreThanMaxResult` is set to 'true' and `StartDate` is set to the insertedDate of earliest `TrackWithDistanceTraveled2` of returned `TrackWithDistanceTraveled2`s, which is the last one in the collection.

Request Parameters: GetTracksForAllMobilesSinceRequest

Name	Data Type	Comments
SinceDate	DateTime	The date/time to use as the starting point for the tracks. Any tracks with received/inserted date equals or greater than it will be returned. Value should be in GMT. The date cannot be more than 3 months in the past.

Response Parameters: GetTracksForAllMobilesSinceReceivedResponse

Name	Data Type	Comments
IsMoreThanMaxResult	boolean	'false' is set, if Collection<Track> does not have more than 5000 tracks; 'true', otherwise.
StartDate	Datetime	Set to the value of 'SinceDate'.
EndDate	Datetime	Set to the value of date this request is serviced (i.e. now), if Collection<Track> does not have more than 5000 tracks. Set to the date and time (InsertedDate) of the last one in the collection.
Tracks	Collection `<TrackWithDistanceTraveled2>`	A collection of all tracks for all mobiles in the supplied fleet that have been received/inserted by Nextraq platform since the supplied UTC date/time

The definition of *TrackWithDistanceTraveled2* can be found in http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

The definition of `GetTracksForAllMobilesSinceReceivedResponse` can be found in http://services.discretewireless.com/v2009_1/xsd/TrackManagerV1.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

getTracksByMobileBetween

The *getTracksByMobileBetween* method returns all `Tracks` that have occurred during the specified date/time period for the submitted mobile. The maximum number of `Tracks` returned is 1000. If there are more than 1000 `Tracks` during the period of time, `IsMoreThanMaxResult` is set to 'true' and `StartDate` is set to the timestamp of the earliest `Track` of returned `Tracks`, which is the last one in the collection. . This method retrieves the tracks by the date and time that they were inserted into the Nextraq system.

Request Parameters: GetTracksByMobileBetweenRequest

Name	Data Type	Comments
Name	String	A string matching the unique name of the mobile
StartDate	DateTime	The date/time to use as the starting point for the tracks. Value should be in GMT. The date cannot be more than 3 months in the past.
EndDate	DateTime	The date/time to use as the ending point for the tracks. Value should be in GMT.

Response Parameters: `GetTracksResponse`

Name	Data Type	Comments
IsMoreThanMaxResult	boolean	'false' is set, if Collection<Track> does not have more than 5000 tracks; 'true', otherwise.
StartDate	Datetime	Set to the value of 'StartDate'.
EndDate	Datetime	Set to the value of 'EndDate', if Collection<Track> does not have more than 5000 tracks. Set to the date and time of the last one in the collection.
Tracks	Collection<`Track`>	A collection of all tracks for all mobiles in the supplied fleet that have occurred since the supplied UTC date/time

The definition of *Track* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

The definition of `GetTracksResponse` and `GetTracksByMobileBetweenRequest` can be found in http://services.discretewireless.com/v2009_1/xsd/TrackManagerV1.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

getTracksByMobileBetweenV2

The *getTracksByMobileBetweenV2* method returns all `Tracks` that have occurred during the specified date/time period for the submitted mobile. The maximum number of `Track`s returned is 1000. If there are more than 1000 `Tracks` during the period of time, `IsMoreThanMaxResult` is set to 'true' and `StartDate` is set to the timestamp of the earliest `Track` of returned `Tracks`, which is the last one in the collection. This method retrieves the tracks by their Satellite date time.

Request Parameters: GetTracksByMobileBetweenRequest

Name	Data Type	Comments
Name	String	A string matching the unique name of the mobile
StartDate	DateTime	The date/time to use as the starting point for the tracks. Value should be in GMT. The date cannot be more than 3 months in the past.
EndDate	DateTime	The date/time to use as the ending point for the tracks. Value should be in

GMT.

Response Parameters: `GetTracksResponse`

Name	Data Type	Comments
IsMoreThanMaxResult	boolean	'false' is set, if Collection<Track> does not have more than 5000 tracks; 'true', otherwise.
StartDate	Datetime	Set to the value of 'StartDate'.
EndDate	Datetime	Set to the value of 'EndDate', if Collection<Track> does not have more than 5000 tracks. Set to the date and time of the last one in the collection.
Tracks	Collection<`Track`>	A collection of all tracks for all mobiles in the supplied fleet that have occurred since the supplied UTC date/time

The definition of *Track* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

The definition of `GetTracksResponse` and `GetTracksByMobileBetweenRequest` can be found in http://services.discretewireless.com/v2009_1/xsd/TrackManagerV1.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

getTracksByFleetBetween

The *getTracksByFleetBetween* method returns all `Tracks` that have occurred during the specified date/time period for all mobiles in the fleet. The maximum number of `Tracks` returned is 5000. If there are more than 5000 `Tracks` since the specified date `IsMoreThanMaxResult` is set to 'true' and `StartDate` is set to the timestamp of earliest `Track` of returned `Tracks`, which is the last one in the collection.

Request Parameters: GetTracksByFleetBetweenRequest

Name	Data Type	Comments
Name	String	A string matching the unique name of the fleet
StartDate	DateTime	The date/time to use as the starting point for the tracks. Value should be in GMT. The date cannot be more than 3 months in the past.
EndDate	DateTime	The date/time to use as the ending point for the tracks. Value should be in GMT.

Response Parameters: `GetTracksResponse`

Name	Data Type	Comments
IsMoreThanMaxResult	boolean	'false' is set, if Collection<Track> does not have more than 5000 tracks; 'true', otherwise.

StartDate	Datetime	Set to the value of 'StartDate'.
EndDate	Datetime	Set to the value of 'EndDate', if Collection<Track> does not have more than 5000 tracks. Set to the date and time of the last one in the collection.
Tracks	Collection<`Track`>	A collection of all tracks for all mobiles in the supplied fleet that have occurred since the supplied UTC date/time

The definition of *Track* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

The definition of `GetTracksResponse` can be found in http://services.discretewireless.com/v2009_1/xsd/TrackManagerV1.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

getTracksForAllMobilesBetween

The *getTracksForAllMobilesBetween* method returns all `Tracks` that have occurred during the specified date/time period for all mobiles. The maximum number of `Tracks` returned is 5000. If there are more than 5000 `Tracks` since the specified date `IsMoreThanMaxResult` is set to 'true' and `StartDate` is set to the timestamp of earliest `Track` of returned `Tracks`, which is the last one in the collection. This method retrieves the tracks by their Satellite date time.

Request Parameters: GetTracksForAllMobilesBetweenRequest

Name	Data Type	Comments
StartDate	DateTime	The date/time to use as the starting point for the tracks. Value should be in GMT. The date cannot be more than 3 months in the past.
EndDate	DateTime	The date/time to use as the ending point for the tracks. Value should be in GMT.

Response Parameters: `GetTracksResponse`

Name	Data Type	Comments
IsMoreThanMaxResult	boolean	'false' is set, if Collection<Track> does not have more than 5000 tracks; 'true', otherwise.
StartDate	Datetime	Set to the value of 'StartDate'.
EndDate	Datetime	Set to the value of 'EndDate', if Collection<Track> does not have more than 5000 tracks. Set to the date and time of the last one in the collection.
Tracks	Collection<`Track`>	A collection of all tracks for all mobiles in the supplied fleet that have occurred since the supplied UTC date/time

The definition of *Track* can be found in the XML schema located at
http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

The definition of `GetTracksResponse` can be found in
http://services.discretewireless.com/v2009_1/xsd/TrackManagerV1.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

getTracksWithDistanceTraveledForAllMobilesBetween

The *getTracksWithDistanceTraveledForAllMobilesBetween* method returns all `TrackWithDistanceTraveled`s that have occurred during the specified date/time period for all mobiles. The maximum number of `TrackWithDistanceTraveled`s returned is 5000. If there are more than 5000 `TrackWithDistanceTraveled`s since the specified date `IsMoreThanMaxResult` is set to 'true' and `StartDate` is set to the timestamp of earliest `TrackWithDistanceTraveled` of returned `TrackWithDistanceTraveled`s, which is the last one in the collection.

Request Parameters: GetTracksForAllMobilesBetweenRequest

Name	Data Type	Comments
StartDate	DateTime	The date/time to use as the starting point for the tracks. Value should be in GMT. The date cannot be more than 3 months in the past.
EndDate	DateTime	The date/time to use as the ending point for the tracks. Value should be in GMT.

Response Parameters: GetTracksWithDistanceTraveledResponse

Name	Data Type	Comments
IsMoreThanMaxResult	boolean	'false' is set, if Collection<Track> does not have more than 5000 tracks; 'true', otherwise.
StartDate	Datetime	Set to the value of 'StartDate'.
EndDate	Datetime	Set to the value of 'EndDate', if Collection<Track> does not have more than 5000 tracks. Set to the date and time of the last one in the collection.
Tracks	Collection `<TrackWithDistanceTraveled>`	A collection of all tracks for all mobiles in the supplied fleet that have occurred since the supplied UTC date/time

The definition of *Track* can be found in the XML schema located at
http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

The definition of `GetTracksWithDistanceTraveledResponse` can be found in
http://services.discretewireless.com/v2009_1/xsd/TrackManagerV1.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

addTrack

The *addTrack* method provides a means to post a `Track` information into NexTraq system.

Request Parameters: AddTrackRequest

Name	Data Type	Comments
TimeStamp	DateTime	UTC satellite datetime stamp.
HardwareId	String	The mobile hardware ID that this track is related to.
MobileName	String	This mobile name.
Lat	double	Latitude.
Lon	double	Longitude.
Heading	short	Heading degree.
Speed	short	Speeding or not.
GPSLock	boolean	Having GPS signal or not.
Old	boolean	Old track or not (when mobile out of cell-phone signal, current track is submitted later and this flag is set to true).
Ping	boolean	Whether this track is generated in response to a ping request or not.
Motion	boolean	Moving or not.
Speeding	Boolean	Speeding or not.
Ignition	Boolean	Ignition on or not.
IgnitionStatus	String	String representation of ignition on or off.
Street	String	Street number and street name of this track.
City	String	City name of this track.
StateProvince	String	State name of this track.
PostalCode	String	Postal code of this track.
County	String	County name of this track.
Rssi	short	Cell-phone signal strength.
Sats	short	GPS satellite strength.
TimeZone	int	Number of minutes of the time-zone where the track is in.
Sensor1	boolean	Sensor 1 is on or off.
Sensor2	boolean	Sensor 2 is on or off.
DistanceTraveled	int	`Distance traveled in tenths of a mile since the previous track i.e. if the value is 8 then the distance represented is 8/10ths of a mils traveled since the previous track.`

Response Parameters: AddTrackResponse

Name	Data Type	Comments
Id	String	System ID.
transactionDetail	`TransactionDetail`	The detail for the add track transaction

The definition of *TransactionDetail* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

The definition of `AddTrackRequest` and *AddTrackResponse* can be found in the XML schema located at http://services.discretewireless.com/v2009_1/xsd/TrackManagerV1.xsd.

Error Codes

Please review the security related errors that could occur for this method in the Security Errors section.

DispatchManagerV1

Dispatch Manager Web Service offers access to dispatched jobs and messages. You can use Dispatch Manager Web Service to create a job, send a message to a mobile (if 'dispatch enabled' is turned on), and get job list, dispatched messages associated with the account. There are operations provided to filter job list and dispatched messages.

Service Location

http://services.discretewireless.com/v2009_2/DispatchManagerV1
(HTTP GET is disabled for security reasons on service URIs.)

WSDL Location

http://services.discretewireless.com/v2009_2/DispatchManagerV1.wsdl

Methods

- **sendJobToMobile**
- **sendYesNoMessageToMobile**
- **sendOkMessageToMobile**
- **sendTextMessageToMobile**
- **getAllJobs**
- **getCustomFieldValues**
- **getJobsByNameContains**
- **getJobsByMobile**
- **getJobsByStatus**
- **getJobsByDate**
- **getJobsByDeliveryStatus**
- **getAllJobsWithIds**
- **getJobWithIdsByDate**
- **getJobWithIdsByNameContains**
- **getJobWithIdsByDeliveryStatus**
- **getJobWithIdsByMobile**
- **getJobWithIdsByStatus**
- **deleteJobsByMobile**
- **deleteCustomFieldValue**
- **getJobStatusHistory**
- **getAllMessages**
- **getMessagesBySender**
- **getMessagesByMobile**
- **getMessagesByMessageContains**
- **getMessagesByType**
- **getMessagesByReply**
- **getMessagesByDate**
- **getMessagesByDeliveryStatus**deleteMessagesByMobile
- **removeJobById**
- **editCustomFieldValue**
- **editMultiCustomFieldValue**
- **createJob**
- **addCustomFieldValue**
- **addMultiCustomFieldValue**
- **listCustomFields**

- **getJobDetails**
- **updateJob**

sendJobToMobile

The *sendJobToMobile* method creates a dispatch job to the specified mobile.

Request Parameters: SendJobToMobileRequest

Name	Data Type	Comments
JobName	String	A string to identify a job
HardwareId	String	Mobile unit hardware ID
Location	String	RID or External reference ID for a Location
MessageForDriver	String	Text message describe the job/content

*NOTE: Starting with release 8.9.5, a job is created with its own record of the location. The location Id associated with this location should not be reused to create a new job. If you require that multiple jobs reuse the same location, we encourage you to use an External Reference Id.

Response Parameters: SendToMobileResponse

Name	Data Type	Comments
SendDispatchDetail	String	The confirmation string or error message

The definition of `SendJobToMobileRequest` and `SendToMobileResponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
030002	Invalid location. External reference of location submitted is invalid or not found.
030003	Invalid job name. Job name value submitted is invalid (empty or exceeding 50 characters).
030004	Invalid mobile hardware ID. Hardware ID submitted is not found.
030005	Mobile is not dispatch enabled.
030007	Message is too long exceeding, 200 characters.

Please review the security related errors that could occur for this method in the Security Errors section.

sendYesNoMessageToMobile

The *sendYesNoMessageToMobile* method creates a yes/no message to the specified mobile.

Request Parameters: YesNoMessageRequest

Name	Data Type	Comments
Message	String	Text message to the specified mobile
HardwareId	String	Mobile unit hardware ID

Response Parameters: SendToMobileResponse

Name	Data Type	Comments
SendDispatchDetail	String	The confirmation string or error message

The definition of `YesNoMessageRequest` and `SendToMobileResponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
030004	Invalid mobile hardware ID. Hardware ID submitted is not found.
030005	Mobile is not dispatch enabled.
030007	Message is too long, exceeding 200 characters.

Please review the security related errors that could occur for this method in the Security Errors section.

sendOkMessageToMobile

The *sendOkMessageToMobile* method creates an ok message to the specified mobile.

Request Parameters: OKMessageRequest

Name	Data Type	Comments
OKMessage	String	OK message to the specified mobile
HardwareId	String	Mobile unit hardware ID

Response Parameters: SendToMobileResponse

Name	Data Type	Comments
SendDispatchDetail	String	The confirmation string or error message

The definition of `OKMessageRequest` and `SendToMobileResponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
030004	Invalid mobile hardware ID. Hardware ID submitted is not found.
030005	Mobile is not dispatch enabled.
030007	Message is too long, exceeding 200 characters.

NexTraq Web Services

Please review the security related errors that could occur for this method in the <u>Security Errors</u> section.

sendTextMessageToMobile

The *sendTextMessageToMobile* method creates an ok message to the specified mobile.

Request Parameters: TextMessageRequest

Name	Data Type	Comments
TextMessage	String	Text message to the specified mobile
HardwareId	String	Mobile unit hardware ID

Response Parameters: SendToMobileResponse

Name	Data Type	Comments
SendDispatchDetail	String	The confirmation string or error message

The definition of `TextMessageRequest` and `SendToMobileResponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
030004	Invalid mobile hardware ID. Hardware ID submitted is not found.
030005	Mobile is not dispatch enabled.
030007	Message is too long, exceeding 200 characters.

Please review the security related errors that could occur for this method in the <u>Security Errors</u> section.

getAllJobs

The *getAllJobs* method retrieves a list of Jobs sent to mobiles belonged to the account associated with the user authentication token.

Request Parameters: GetAllJobsRequest

Name	Data Type	Comments
MaxResults	Int	Max number of records returned should be between 1 and 1000 inclusive.

Response Parameters: GetJobsResponse

Name	Data Type	Comments
DispatchJobs	Collection<`DispatchJob`>	Returns a collection of `DispatchJob`s.

*NOTE: Starting with release 8.9.5, the Location returned within DispatchJob is specific to the job and saved with the job as a historical record. The location Id associated with this location should not be reused to create a new job. Please use LocationManagerV1 or AddressFinderV1 to retrieve locations and resolve points.

The definition of `GetAllJobsRequest` and `GetJobsResponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.

Please review the security related errors that could occur for this method in the Security Errors section.

getCustomFieldValues

The *getCustomFieldValues* method retrieves a list of Values Stored in custom fields by either an Id of the specific JobFieldValue stored which returns the specifically stored value and field reference. Providing a job ID will retrieve all values stored for a particular job.

Request Parameters: getCustomFieldValuesRequest

Name	Data Type	Comments
JobFieldValueId	int	Reference to a particular Custom Field Value.
JobId	int	Reference to a Job and all it's associated Custom Fields

Response Parameters: GetCustomFieldValuesResponse

Name	Data Type	Comments
DispatchJobs	Collection<CustomJobFieldValue>	Returns a collection of CustomJobFieldValues.

The definition of `GetAllJobsRequest`, `GetJobsResponse and CustomJobfieldValue` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
030073	Invalid 'Job Id'
0300102	Invalid 'Invalid Custom field Id'

Please review the security related errors that could occur for this method in the Security Errors section.

getJobsByNameContains

The *getJobsByNameContains* method retrieves a list of Jobs sent to mobiles with their job name containing the specified request string. These jobs belong to the account associated with the user authentication token.

Request Parameters: JobsByNameContainsRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.
NameContains	String	Partial or complete job name

Response Parameters: GetJobsResponse

Name	Data Type	Comments
DispatchJobs	Collection<`DispatchJob`>	Returns a collection of `DispatchJob`s.

*NOTE: Starting with release 8.9.5, the Location returned within DispatchJob is specific to the job and saved with the job as a historical record. The location Id associated with this location should not be reused to create a new job. Please use LocationManagerV1 or AddressFinderV1 to retrieve locations and resolve points.

The definition of `GetAllJobsRequest` and `GetJobsResponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

The definition of `Mobile` and `Location` can be found in the XML schema at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.

Please review the security related errors that could occur for this method in the Security Errors section.

getJobsByMobile

The *getJobsByMobile* method retrieves a list of Jobs sent to the mobile with the specified mobile hardware ID. These jobs belong to the account associated with the user authentication token.

Request Parameters: JobsByMobileRequest

Name	Data Type	Comments

MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.
HardwareId	String	Mobile unit hardware ID

Response Parameters: GetJobsResponse

Name	Data Type	Comments
DispatchJobs	Collection<`DispatchJob`>	Returns a collection of `DispatchJob`s.

*NOTE: Starting with release 8.9.5, the Location returned within DispatchJob is specific to the job and saved with the job as a historical record. The location Id associated with this location should not be reused to create a new job. Please use LocationManagerV1 or AddressFinderV1 to retrieve locations and resolve points.

The definition of JobsByMobileRequest and GetJobsResponse can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

The definition of Mobile and Location can be found in the XML schema at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.
030004	Invalid mobile hardware ID. Hardware ID submitted is not found.

Please review the security related errors that could occur for this method in the Security Errors section.

getJobsByStatus

The *getJobsByStatus* method retrieves a list of Jobs sent to mobiles with the specified job status. These jobs belong to the account associated with the user authentication token.

Request Parameters: JobsByStatusRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.
Status	String	A permissible string includes one of 'ASSIGNED', 'PENDING', 'EN_ROUTE', 'COMPLETED', and 'CANCELLED'. (have to be all upper case)

Response Parameters: GetJobsResponse

Name	Data Type	Comments
DispatchJobs	Collection<`DispatchJob`>	Returns a collection of `DispatchJob`s.

*NOTE: Starting with release 8.9.5, the Location returned within DispatchJob is specific to the job and saved with the job as a historical record. The location Id associated with this location should not be reused to create a new job. Please use LocationManagerV1 or AddressFinderV1 to retrieve locations and resolve points.

The definition of `JobsByStatusRequest` and `GetJobsResponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

The definition of `Mobile` and `Location` can be found in the XML schema at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.
030006	Invalid argument. (the argument could be case sensitive)

Please review the security related errors that could occur for this method in the Security Errors section.

getJobsByDate

The *getJobsByDate* method retrieves a list of Jobs sent to mobiles within the specified dateTime range. These jobs belong to the account associated with the user authentication token.

Request Parameters: JobsByDateRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.
MinDate	DateTime	Starting point of time inclusive for the time range.
MaxDate	DateTime	Ending point of time inclusive for the time range.

Response Parameters: GetJobsResponse

Name	Data Type	Comments
DispatchJobs	Collection<`DispatchJob`>	Returns a collection of `DispatchJob`s.

*NOTE: Starting with release 8.9.5, the Location returned within DispatchJob is specific to the job and saved with the job as a historical record. The location Id associated with this location should not be reused to create a new job. Please use LocationManagerV1 or AddressFinderV1 to retrieve locations and resolve points.

The definition of `JobsByDateRequest` and `GetJobsResponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

The definition of `Mobile` and `Location` can be found in the XML schema at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.
030006	Invalid argument. (the argument could be case sensitive)

Please review the security related errors that could occur for this method in the Security Errors section.

getJobsByDeliveryStatus

The *getJobsByDeliveryStatus* method retrieves a list of Jobs sent to mobiles within the specified dateTime range. These jobs belong to the account associated with the user authentication token.

Request Parameters: JobsByDeliveryStatusRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.
DeliveryStatus	String	A permissible string includes one of 'SENT', 'UNDELIVERABLE_GARMIN', 'UNDELIVERABLE_NETWORK', 'FIRST_RETRY', 'DELIVERED'. (have to be all upper case)

Response Parameters: GetJobsResponse

Name	Data Type	Comments
DispatchJobs	Collection<`DispatchJob`>	Returns a collection of `DispatchJob`s.

*NOTE: Starting with release 8.9.5, the Location returned within DispatchJob is specific to the job and saved with the job as a historical record. The location Id associated with this location should not be reused to create a new job. Please use LocationManagerV1 or AddressFinderV1 to retrieve locations and resolve points.

The definition of `JobsByDeliveryStatusRequest` and `GetJobsResponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.
030006	Invalid argument. (the argument could be case sensitive)

Please review the security related errors that could occur for this method in the section.

deleteJobsByMobile

The *deleteJobsByMobile* method removes Jobs sent to a mobile. These jobs belong to the account associated with the user authentication token.

Request Parameters: DeleteJobsByMobileRequest

Name	Data Type	Comments
HardwareId	String	Mobile unit hardware ID

Response Parameters: DeleteJobsByMobileResponse

HardwareId	String	Mobile unit hardware ID
HardwareId	String	Mobile unit hardware ID

The definition of JobsByDeliveryStatusRequest and GetJobsResponse can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
030004	Invalid mobile hardware ID.

Please review the security related errors that could occur for this method in the section.

deleteCustomFieldValue

The *deleteCustomFieldValue* method removes specific user defined field alues associated with a Job. Since Jobs can have duplicate fields associated with it, a specific Job Field Value Id is needed to delete a specific instance.

Request Parameters: DeleteCustomFieldValue

Name	Data Type	Comments
jobFieldValueId	String	Id of a specific Job Field Value.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	The result of the delete.

The definition of JobsByDeliveryStatusRequest and GetJobsResponse can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
030103	Invalid Job Field Value Id, the instance of the custom field could not be found.

getJobStatusHistory

The *getJobStatusHistory* method returns the Jobs Status History for a mobile. These jobs belong to the account associated with the user authentication token.

Request Parameters: DeleteJobsByMobileRequest

Name	Data Type	Comments
HardwareId	String	Mobile unit hardware ID

Response Parameters: GetJobStatusHistoryResponse

Name	Data Type	Comments
JobName	String	A string to identify a job.
Mobile	Mobile	A complex type related to mobile unit.
Location	Location	A complex type related to Location.
MessageForDriver	String	Text message describe the job/content
ExtRef	String	External reference of this location
CreatedTime	DateTime	Date and time of the job when it was created
Status	String	Job status
LastComDate	DateTime	Date and time mobile communicated back last time. This should be considered with 'Status' field.
ETA	DateTime	Date and time of estimated time of arrival.
DeliveryStatus	String	Possible values include 'SENT', 'UNDELIVERABLE_GARMIN', 'UNDELIVERABLE_NETWORK', 'FIRST_RETRY', 'DELIVERED'
StatusHistory	`StatusAndReceiveTime`	Status and receive time. This element may occur zero or more times.

*NOTE: Starting with release 8.9.5, the Location returned within DispatchJob is specific to the job and saved with the job as a historical record. The location Id associated with this location should not be reused to create a new job. Please use LocationManagerV1 or AddressFinderV1 to retrieve locations and resolve points.

The definition of `GetJobStatusHistoryRequest` and `GetJobStatusHistoryResponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message

| 030004 | Invalid mobile hardware ID. |

Please review the security related errors that could occur for this method in the Security Errors section.

getAllJobWithIds

The *getAllJobWithIds* method retrieves a list of Jobs sent to mobiles belonged to the account associated with the user authentication token.

Request Parameters: GetAllJobWithIdsRequest

Name	Data Type	Comments
MaxResults	Int	Max number of records returned should be between 1 and 1000 inclusive.

Response Parameters: GetJobWithIdsResponse

Name	Data Type	Comments
DispatchJobWithId	Collection< `DispatchJobWithId`>	Returns a collection of `DispatchJobWithId`s.

*NOTE: Starting with release 8.9.5, the Location returned within DispatchJob is specific to the job and saved with the job as a historical record. The location Id associated with this location should not be reused to create a new job. Please use LocationManagerV1 or AddressFinderV1 to retrieve locations and resolve points.

The definition of GetJobWithIdsRequest and GetJobWithIdsResponse can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.

Please review the security related errors that could occur for this method in the Security Errors section.

getJobWithIdsByDate

The *getJobWithIdsByDate* method retrieves a list of Jobs sent to mobiles in a given date range that belonged to the account associated with the user authentication token.

Request Parameters: JobWithIdsByDateRequest

Name	Data Type	Comments
MaxResults	Int	Max number of records returned should be between 1 and 1000 inclusive.
MinDate	DateTime	Starting point of time inclusive for the time range.

MaxDate	DateTime	Ending point of time inclusive for the time range.

Response Parameters: GetJobWithIdsResponse

Name	Data Type	Comments
DispatchJobWithId	Collection<`DispatchJobWithId`>	Returns a collection of `DispatchJobWithId`s.

*NOTE: Starting with release 8.9.5, the Location returned within DispatchJob is specific to the job and saved with the job as a historical record. The location Id associated with this location should not be reused to create a new job. Please use LocationManagerV1 or AddressFinderV1 to retrieve locations and resolve points.

The definition of `GetJobWithIdsRequest` and `GetJobWithIdsResponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.
030008	Date format is invalid. Its string representation could be 2009-09-12T00:00:00Z

Please review the security related errors that could occur for this method in the Security Errors section.

getJobWithIdsByNameContains

The *getJobWithIdsByNameContains* method retrieves a list of Jobs sent to mobiles with their job name containing the specified request string. These jobs belong to the account associated with the user authentication token.

Request Parameters: JobWithIdsByNameContainsRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.
NameContains	String	Partial or complete job name

Response Parameters: GetJobWithIdsResponse

Name	Data Type	Comments
DispatchJobs	Collection<`DispatchJobWithId`>	Returns a collection of `DispatchJobWithId`s.

*NOTE: Starting with release 8.9.5, the Location returned within DispatchJob is specific to the job and saved with the job as a historical record. The location Id associated with this location

should not be reused to create a new job. Please use LocationManagerV1 or AddressFinderV1 to retrieve locations and resolve points.

The definition of `JobWithIdsByNameContainsRequest` and `GetJobWithIdsResponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

The definition of `Mobile` and `Location` can be found in the XML schema at http://services.discretewireless.com/v2009_1/xsd/DomainData.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.

Please review the security related errors that could occur for this method in the Security Errors section.

getJobWithIdsByMobile

The *getJobWithIdsByMobile* method retrieves a list of Jobs sent to the mobile with the specified mobile hardware ID. These jobs belong to the account associated with the user authentication token.

Request Parameters: JobWithIdsByMobileRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.
HardwareId	String	Mobile unit hardware ID

Response Parameters: GetJobWithIdsResponse

Name	Data Type	Comments
DispatchJobs	Collection<`DispatchJobWithId`>	Returns a collection of `DispatchJobWithId`s.

*NOTE: Starting with release 8.9.5, the Location returned within DispatchJob is specific to the job and saved with the job as a historical record. The location Id associated with this location should not be reused to create a new job. Please use LocationManagerV1 or AddressFinderV1 to retrieve locations and resolve points.

The definition of `JobWithIdsByMobileRequest` and `GetJobWithIdsResponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message

| 030009 | Invalid 'MaxResult'. |
| 030004 | Invalid mobile hardware ID. Hardware ID submitted is not found. |

Please review the security related errors that could occur for this method in the Security Errors section.

getJobWithIdsByStatus

The *getJobWithIdsByStatus* method retrieves a list of Jobs sent to mobiles with the specified job status. These jobs belong to the account associated with the user authentication token.

Request Parameters: JobWithIdsByStatusRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.
Status	String	A permissible string includes one of 'ASSIGNED', 'PENDING', 'EN_ROUTE', 'COMPLETED', and 'CANCELLED'. (have to be all upper case)

Response Parameters: GetJobsResponse

Name	Data Type	Comments
DispatchJobs	Collection<`DispatchJobWithId`>	Returns a collection of `DispatchJobWithId`s.

*NOTE: Starting with release 8.9.5, the Location returned within DispatchJob is specific to the job and saved with the job as a historical record. The location Id associated with this location should not be reused to create a new job. Please use LocationManagerV1 or AddressFinderV1 to retrieve locations and resolve points.

The definition of `JobWithIdsByStatusRequest` and `GetJobWithIdsResponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.
030006	Invalid argument. (the argument could be case sensitive)

Please review the security related errors that could occur for this method in the Security Errors section.

getJobWithIdsByDeliveryStatus

The *getJobWithIdsByDeliveryStatus* method retrieves a list of Jobs sent to mobiles within the specified dateTime range. These jobs belong to the account associated with the user authentication token.

Request Parameters: JobWithIdsByDeliveryStatusRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.

| DeliveryStatus | String | A permissible string includes one of 'SENT', 'UNDELIVERABLE_GARMIN', 'UNDELIVERABLE_NETWORK', 'FIRST_RETRY', 'DELIVERED'. (have to be all upper case) |

Response Parameters: GetJobsResponse

Name	Data Type	Comments
DispatchJobs	Collection<`DispatchJob`>	Returns a collection of `DispatchJob`s.

The definition of `JobWithIdsByDeliveryStatusRequest` and `GetJobWithIdsResponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.
030006	Invalid argument. (the argument could be case sensitive)

Please review the security related errors that could occur for this method in the Security Errors section.

getAllMessages

The *getAllMessages* method retrieves a list of dispatched messages sent to mobiles belonged to the account associated with the user authentication token.

Request Parameters: GetAllMessagesRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.

Response Parameters: GetMessagesResponse

Name	Data Type	Comments
InVehicleMessages	Collection<`InVehicleMessage`>	Returns a collection of `InVehicleMessage`s.

The definition of `GetAllMessagesRequest` and `GetMessagesResponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.

Please review the security related errors that could occur for this method in the Security Errors section.

getMessagesBySender

The *getMessagesBySender* method retrieves a list of dispatched messages sent to mobiles that were sent by the specified user name or a constant string, 'Web Service'. These dispatched messages belong to the account associated with the user authentication token.

Request Parameters: GetMessagesBySenderRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.
From	String	User name or 'Web Service' who initiated a message

Response Parameters: GetMessagesResponse

Name	Data Type	Comments
InVehicleMessages	Collection<`InVehicleMessage`>	Returns a collection of `InVehicleMessage`s.

The definition of `GetMessagesBySenderRequest` and `GetMessagesResponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.
030010	Invalid 'From.

Please review the security related errors that could occur for this method in the Security Errors section.

getMessagesByMobile

The *getMessagesByMobile* method retrieves a list of dispatched messages sent to the mobile with the specified hardware ID.

Request Parameters: GetMessagesByMobileRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.
HardwareId	String	Mobile unit hardware ID

Response Parameters: GetMessagesResponse

Name	Data Type	Comments
InVehicleMessages	Collection<`InVehicleMessage`>	Returns a collection of `InVehicleMessage`s.

The definition of `GetMessagesByMobileRequest` and `GetMessagesResponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.
030004	Invalid mobile hardware ID. Hardware ID submitted is not found.

Please review the security related errors that could occur for this method in the Security Errors section.

getMessagesByMessageContains

The *getMessagesByMessageContains* method retrieves a list of dispatched messages with content containing the specified string. These dispatched messages belong to the account associated with the user authentication token.

Request Parameters: GetMessagesByMessageContainsRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.
MessageContains	String	A partial or complete message content

Response Parameters: GetMessagesResponse

Name	Data Type	Comments
InVehicleMessages	Collection<`InVehicleMessage`>	Returns a collection of `InVehicleMessage`s.

The definition of `GetMessagesByMessageContainsRequest` and `GetMessagesResponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.

Please review the security related errors that could occur for this method in the Security Errors section.

getMessagesByType

The *getMessagesByType* method retrieves a list of dispatched messages of the specified type. These dispatched messages belong to the account associated with the user authentication token.

Request Parameters: GetMessagesByTypeRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.
Type	String	'OK', 'YESNO', or 'TEXT' (have to be in upper case)

Response Parameters: GetMessagesResponse

Name	Data Type	Comments
InVehicleMessages	Collection<`InVehicleMessage`>	Returns a collection of `InVehicleMessage`s.

The definition of GetMessagesByTypeRequest and GetMessagesResponse can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.
030006	Invalid argument. (the argument could be case sensitive)

Please review the security related errors that could occur for this method in the Security Errors section.

getMessagesByReply

The *getMessagesByReply* method retrieves a list of dispatched messages with the specified reply. These dispatched messages belong to the account associated with the user authentication token.

Request Parameters: GetMessagesByReplyRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.
Reply	String	'OK', 'YES', or 'NO' (have to be in upper case)

Response Parameters: GetMessagesResponse

Name	Data Type	Comments
InVehicleMessages	Collection<`InVehicleMessage`>	Returns a collection of `InVehicleMessage`s.

The definition of `GetMessagesByReplyRequest` and `GetMessagesResponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.

030006	Invalid argument. (the argument could be case sensitive)

Please review the security related errors that could occur for this method in the Security Errors section.

getMessagesByDate

The *getMessagesByDate* method retrieves a list of dispatched messages with the specified dateTime range. These dispatched messages belong to the account associated with the user authentication token.

Request Parameters: GetMessagesByDateRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.
MinDate	DateTime	Starting point of time inclusive for the time range.
MaxDate	DateTime	Ending point of time inclusive for the time range.

Response Parameters: GetMessagesResponse

Name	Data Type	Comments
InVehicleMessages	Collection<`InVehicleMessage`>	Returns a collection of `InVehicleMessage`s.

The definition of `GetMessagesByDateRequest` and `GetMessagesResponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.
030006	Invalid argument. (the argument could be case sensitive)

Please review the security related errors that could occur for this method in the Security Errors section.

getMessagesByDeliveryStatus

The *getMessagesByDeliveryStatus* method retrieves a list of dispatched messages with the specified delivery status. These dispatched messages belong to the account associated with the user authentication token.

Request Parameters: GetMessagesByDeliveryStatusRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.
DeliveryStatus	String	A permissible string includes one of 'SENT', 'UNDELIVERABLE_GARMIN', 'UNDELIVERABLE_NETWORK',

'FIRST_RETRY', 'DELIVERED'. (have to be all upper case)

Response Parameters: GetMessagesResponse

Name	Data Type	Comments
InVehicleMessages	Collection<`InVehicleMessage`>	Returns a collection of `InVehicleMessage`s.

The definition of `GetMessagesByDeliveryStatusRequest` and `GetMessagesResponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.
030006	Invalid argument. (the argument could be case sensitive)

Please review the security related errors that could occur for this method in the Security Errors section.

deleteMessagesByMobile

The *deleteMessagesByMobile* method delete messages associated with a mobile.

Request Parameters: DeleteMessagesByMobileRequest

Name	Data Type	Comments
HardwareId	String	Mobile unit hardware ID

Response Parameters: DeleteMessagesByMobileResponse

Name	Data Type	Comments
HardwareId	String	Mobile unit hardware ID

The definition of `DeleteMessagesByMobileRequest` and `DeleteMessagesByMobileResponse`can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
030004	Invalid mobile hardware ID. Hardware ID submitted is not found.

Please review the security related errors that could occur for this method in the Security Errors section.

removeJobById

The removeJobById method deletes jobs from the system, archives jobs, and deletes jobs from the PND.

Request Parameters: RemoveJobByIdRequest

Name	Data Type	Comments
JobId	List<String>	A list of job Ids to perform the requested action on.
RemovalType	String	Specifies how the job should be removed. Possible values are 'removeFromPND', 'removeFromSystem', 'archive'

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	The result of the update.

CUDResponse Codes

Code	Message
Success	Job was successfully updated.
Failure	Failed to update job

The definition of RemoveJobById`Request` and CUDResponse can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
030080	Invalid removalType

Please review the security related errors that could occur for this method in the Security Errors section.

editCustomFieldValue

Update an existing Value stored in a user defined field associated with a job. A job can have multiple custom fields and values, to edit a specific instance of a customfield you must provide the ID.

Request Parameters: editCustomFieldValue

Name	Data Type	Comments
Value	String	Required item that sets the referenced field to this value.
JobfieldValueId	String	An ID that references a specific JobFieldValue.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	The result of the update containing the jobId created.

The definition of EditCustomFieldValue and CUDResponse can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
0300102	Invalid Custom Field Value ID

Please review the security related errors that could occur for this method in the Security Errors section.

editMultiCustomFieldValue

Update multiple existing values stored in user defined fields associated with a job. A job can have multiple custom fields and values, to edit a specific instance of a customfield you must provide the ID.

Request Parameters: editMultiCustomFieldValue

Name	Data Type	Comments
Value	List<UpdateCustomFieldValue>	A list of UpdateCustomFieldValue objects

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	The result of the update containing the jobId created.

The definition of EditMultiCustomFieldValue and CUDResponse can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
0300102	Invalid Custom Field Value ID

Please review the security related errors that could occur for this method in the Security Errors section.

addCustomFieldValue

Create a Value for a User Definied Field associated with a job.

Request Parameters: addCustomFieldValue

Name	Data Type	Comments
Value	String	A String value to set the field to.
Job Id	Int	A reference to Job this field is associated with.
Field Id	Int	A reference to the User Defined Field which will be set with the value parameter.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	The result of the update containing the jobId created.

The definition of AddCustomFieldValue and CUDResponse can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
0300102	Invalid Custom Field ID, could not find user defined field with this ID.
0300073	Invalid job ID. Could not find a Job with this ID, or you do not have permission to access this Job.

Please review the security related errors that could occur for this method in the Security Errors section.

addMultiCustomFieldValue

Allows user to create multiple custom field values for a given job.

Request Parameters: addMultiCustomFieldValue

Name	Data Type	Comments
Value	List<AddCustomFieldValue>	A list of AddCustomFieldValue objects

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	The result of the update containing the jobId created.

The definition of AddMultiCustomFieldValue and CUDResponse can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
0300102	Invalid Custom Field ID, could not find user defined field with this ID.
0300073	Invalid job ID. Could not find a Job with this ID, or you do not have permission to access this Job.

Please review the security related errors that could occur for this method in the Security Errors section.

createJob

Create a dispatch job.

Request Parameters: createJobRequest

Name	Data Type	Comments
JobName	String	A String to identify a job.
Identifier	String	Id of the IdentifierType that the job will be assigned to.
IdentifierType	String	Describes the type of Identifier given. Possible values are: 'HardwareId', 'UserId', 'Unassigned' NOTE: If the job is left unassigned, then it can be assigned at a later date from either the Nextraq Web Application or through the updateJob service method.
MessageForDriver	String	String text message that describes the job, will be sent to driver.
JobDateTime	DateTime	Date and time that the job is scheduled to start.
LocationSource	String	Type of location associated with the 'jobLocation' field. Possible values are: 'Location', 'mobile', 'lat_lon'
JobLocation	Object	Object that contains the location associated with the job. Possible objects are String (used for locationId and mobile hardwareId) and Point (used for latitude / longitude)
SendDateTime	DateTime	The Date and time the message should be dispatched to the MobileUnit.
Duration	Duration	The expected or planned duration of the job.
FleetId	String	Fleet Id that will be tagged to unassigned job

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	The result of the update containing the jobId created.

The definition of CreateJob`Request` and CUDResponse can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
030002	Invalid location. External reference of location submitted is invalid or not found.
030003	Invalid job name. Job name value submitted is invalid (empty or exceeding 50 characters).
030004	Invalid mobile hardware ID. Hardware ID submitted is not found.
030005	Mobile is not dispatch enabled.
030007	Message is too long exceeding, 200 characters.
030081	Unable to retrieve location for the given mobile

Please review the security related errors that could occur for this method in the Security Errors section.

.NET Sample Code

```
//To set the jobDuration field, convert a TimeSpan object into a string
int days = 2;
int hours = 1;
int minutes = 4;
int seconds = 30;
messagePart.jobDuration = System.Xml.XmlConvert.ToString(new
System.TimeSpan(days,hours,minutes,seconds));
```

listCustomFields

Retrieve all user defined fields for an account.

Request Parameters: GetJobDetailsRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned per page, should be between 1 and 1000 inclusive.

Response Parameters: GetJobDetailsResponse

Name	Data Type	Comments
fields	List<UserDefinedJobFields>	User Defined Fields associated with an account and their ID.

The definition of listCustomFields can be found in the XML schema at
http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

getJobDetails

Retrieve all details for jobs that meet the given criteria.

Request Parameters: GetJobDetailsRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned per page, should be between 1 and 1000 inclusive. NOTE: C# clients need to set 'MaxResultsSpecified' to True in order for MaxResults to be sent to the server as part of the request.
Page	Int	Specifies the page of the results to retrieve. By default, if maxResults is not set, pages are broken up into groups of 1000 results and defaults to page 1. The number of results per page can be limited by defining maxResults.
FilterCriteria	FilterCriteria	A key/value object that accepts user specified fields that are used to limit the search results. Currently available fields are listed below. Keys are case insensitive and can

		be used in conjunction with eachother. An exception is thrown if an invalid filterKey is provided.
SortBy	String	Field used to sort the results. Any of the keys listed with the fiilterCriteria can be used as an acceptable sort value.
Ascending	Boolean	Specifies if the results are in ascending order.

Response Parameters: GetJobDetailsResponse

Name	Data Type	Comments
Job	List<JobPlusAttributes>	Contains all data associated with the job.

The definition of GetJobDetails`Request and `GetJobDetailsRsponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Available Filter Criteria key values

Key	Comments
mobileHardwareId	Mobile Unit hardware ID
jobName	A String to identify a job.
jobId	Id associated with the job
jobMinCreateDate	Minimum create date of a job
jobMaxCreateDate	Maximum create date of a job
jobCreateDate	Create date of a job
isArchived	Specifies whether a job is archied or not. Posible values are True or False
jobStatus	Status of a job
jobDeliveryStatus	Delivery status of a job
jobLocation	Location that the job is assigned to.
assignedState	State of the job. Possible values are ASSIGNED, UNASSIGNED, BOTH
assignedUser	User Id that is assigned to the job.
IncludeHistory	'True' or 'False'. Includes the Job's history in the response. By default the history is not included.

Error Codes

Code	Message
030006	No Mapping exists for key value
030096	Invalid date
030097	Invalid Job Assignment state.

Please review the security related errors that could occur for this method in the Security Errors section.

updateJob

Update an existing job. All fields except the JobId are optional. Any field that is set will override the existing value. Also, the job cannot be updated if it has already been dispatched.

Request Parameters: createJobRequest

Name	Data Type	Comments
JobId	String	Required field that identifies the job that will be updated. Can be retrieved using the getJobDetails service method.
JobName	String	A String to identify a job.
Identifier	String	Id of the IdentifierType that the job will be assigned to.
IdentifierType	String	Describes the type of Identifier given. Possible values are: 'HardwareId', 'UserId'
MessageForDriver	String	String text message that describes the job. Message will be sent to driver.
JobDateTime	DateTime	Date and time that the job is scheduled to start.
LocationSource	String	Type of location associated with the 'jobLocation' field. Possible values are: 'Location', 'mobile', 'lat_lon'
JobLocation	Object	Object that contains the location associated with the job. Possible objects are String (used for locationId and mobile hardwareId) and Point (used for latitude / longitude)
SendDateTime	DateTime	The Date and time the message should be dispatched to the MobileUnit.
Duration	Duration	The expected or planned duration of the job.
Note	String	Text that can be added to the job. This field is only viewable from the web application and the getJobDetails service method.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	The result of the update containing the jobId created.

The definition of CreateJob`Request` and CUDResponse can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Error Codes

Code	Message
030084	Invalid IdentifierType. Expected 'HardwareId', 'UserId', or 'Unassigned'
030085	UserId is not dispatchable
030086	UserId is Invalid
030087	Missing required field.
030088	Queued jobs are not editable.
030089	Invalid job status
030090	Job cannot be updated after it is assigned
030094	Cannot change job status before it is assigned
030095	Cannot unassign a currently assigned job.
030096	Invalid date

Please review the security related errors that could occur for this method in the Security Errors section.

getJobCustomFieldDetails

Retrieve all details for jobs that meet the given criteria.

Request Parameters: GetJobCustomFieldDetailsRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned per page, should be between 1 and 1000 inclusive. NOTE: C# clients need to set 'MaxResultsSpecified' to True in order for MaxResults to be sent to the server as part of the request.
Page	Int	Specifies the page of the results to retrieve. By default, if maxResults is not set, pages are broken up into groups of 1000 results and defaults to page 1. The number of results per page can be limited by defining maxResults.
FilterCriteria	FilterCriteria	A key/value object that accepts user specified fields that are used to limit the search results. Currently available fields are listed below. Keys are case insensitive and can be used in conjunction with eachother. An exception is thrown if an invalid filterKey is provided.
FieldId	Long	Key value that references a custom field to search.
SortBy	String	Field used to sort the results. Any of the keys listed with the fiilterCriteria can be used as an acceptable sort value.
Ascending	Boolean	Specifies if the results are in ascending order.

Response Parameters: GetJobDetailsResponse

Name	Data Type	Comments
Job	List<JobPlusAttributes>	Contains all data associated with the job.

The definition of GetJobCustomFieldDetails`Request and GetJobDetailsRsponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/DispatchManagerV1.xsd.

Available Filter Criteria key values

Key	Comments
jobCustomFieldContains	Selected custom field contains the search string.
jobCustomFieldIsExact	Selected custom field contains exactly the search string.
jobCustomFieldStartsWith	Selected custom field starts with search string.
jobCustomFieldEndsWith	Selected custom field ends with search string

Error Codes

Code	Message
030006	No Mapping exists for key value

AccountUserManagerV1

Account User Manager Web Service offers access to account users. You can use Account User Manager Web Service to create, update or delete a user, and retrieve a list of users based on various searching criteria.

Service Location

http://services.discretewireless.com/v2009_2/AccountUserManagerV1
(HTTP GET is disabled for security reasons on service URIs.)

WSDL Location

`http://services.discretewireless.com/v2009_2/AccountUserManagerV1.wsdl`

Methods

- **getAllAccountUsers**
- **getUsersByFirstNameContains**
- **getUsersByLastNameContains**
- **getUsersByUsernameContains**
- **getAdminUsers**
- **createAccountUser**
- **updateAccountUser**
- **deleteAccountUser**

getAllAccountUsers

The *getAllAccountUsers* method retrieves all users. These users belong to the account associated with the user authentication token.

Request Parameters: GetAllUsersRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.

Response Parameters: GetUsersResponse

Name	Data Type	Comments
AccountUsers	Collection<`AccountUser`>	A collection of users with the admin privilege.

The definition of `GetAllUsersRequest` and `GetUsersResponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/AccountUserManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.

Please review the security related errors that could occur for this method in the <u>Security Errors</u> section.

getUsersByFirstNameContains

The *getUsersByFirstNameContains* method retrieves a list of users whose first name contains the specified string. These users belong to the account associated with the user authentication token.

Request Parameters: GetUsersByFirstNameContainsRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.
FirstNameContains	String	First name or part of it. The length has to be between 1 and 50 characters.

Response Parameters: GetUsersResponse

Name	Data Type	Comments
AccountUsers	Collection<`AccountUser`>	A collection of users with the admin privilege.

The definition of `GetUsersByFirstNameContainsRequest` and `GetUsersResponse` can be found in the XML schema at <u>http://services.discretewireless.com/v2009_2/xsd/AccountUserManagerV1.xsd</u>.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.
030011	Invalid first name. The string length should be between 1 and 50 inclusive.

Please review the security related errors that could occur for this method in the <u>Security Errors</u> section.

getUsersByLastNameContains

The *getUsersByLastNameContains* method retrieves a list of users whose last name contains the specified string. These users belong to the account associated with the user authentication token.

Request Parameters: GetUsersByLastNameContainsRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.
LastNameContains	String	Last name or part of it. The length has to be between 1 and 50

characters.

Response Parameters: GetUsersResponse

Name	Data Type	Comments
AccountUsers	Collection<`AccountUser`>	A collection of users with the admin privilege.

The definition of `GetUsersByLastNameContainsRequest` and `GetUsersResponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/AccountUserManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.
030012	Invalid last name. The string length should be between 1 and 50 inclusive.

Please review the security related errors that could occur for this method in the Security Errors section.

getUsersByUsernameContains

The *getUsersByUsernameContains* method retrieves a list of users whose user name contains the specified string. These users belong to the account associated with the user authentication token.

Request Parameters: GetUsersByUsernameContainsRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.
UserNameContains	String	User name or part of it. The length has to be between 1 and 50 characters.

Response Parameters: GetUsersResponse

Name	Data Type	Comments
AccountUsers	Collection<`AccountUser`>	A collection of users with the admin privilege.

The definition of `GetUsersByUsernameContainsRequest` and `GetUsersResponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/AccountUserManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.
030013	Invalid user name. The string length should be between 1 and 50 inclusive.

Please review the security related errors that could occur for this method in the Security Errors section.

getAdminUsers

The *getAdminUsers* method retrieves a list of users who has administrative privilege. These users belong to the account associated with the user authentication token.

Request Parameters: GetAdminUsersRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.

Response Parameters: GetUsersResponse

Name	Data Type	Comments
AccountUsers	Collection<`AccountUser`>	A collection of users with the admin privilege.

The definition of `GetAdminUsersRequest` and `GetUsersResponse` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/AccountUserManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.

Please review the security related errors that could occur for this method in the Security Errors section.

createAccountUser

The *createAccountUser* method creates an account user with specified parameters. The specified first name and last name combination has to be unique.

Request Parameters: CreateUserRequest

Name	Data Type	Comments
FisrtName	String	First name of the account user
LastName	String	Last name of the account user
EmailAddress	String	Email-address
UserName	String	User name used to log in to NexTraq online system
TimeZone	String	Format: GMT(+/-)Time For Example: GMT, GMT-5:00, GMT+10:00, etc.
UseDaylightSavings	String	'true' or 'false'
ViewAllFleet	String	'true' or 'false'
ViewUnassignedMobiles	String	'true' or 'false'

Password	String	Password used to log in to NexTraq online system
Permissions	List<String>	Each element in the list has to be one of the following: ROLE_ACCT_USER_MAPS, ROLE_ACCT_USER_DISPATCH, ROLE_ACCT_USER_REPORTS, ROLE_ACCT_USER_ALERTS, ROLE_ACCT_USER_ROUTES, ROLE_ACCT_USER_MAINT, ROLE_ACCT_USER_MSGS, ROLE_ACCT_USER_ADMIN_LOCATIONS, ROLE_ACCT_USER_ADMIN_ZONES, ROLE_ACCT_USER_ADMIN_MOBILES, ROLE_ACCT_USER_ADMIN_DRIVERS, ROLE_ACCT_USER_ADMIN_FLEETS, ROLE_ACCT_USER_ADMIN_ACCOUNT, ROLE_ACCT_ADMIN

Response Parameters: `CUDResponse`

Name	Data Type	Comments
Result	String	User ID in string format.

The definition of `CreateUserRequest` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/AccountUserManagerV1.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030011	Invalid first name. The string length should be between 1 and 50 inclusive.
030012	Invalid last name. The string length should be between 1 and 50 inclusive.
030013	Invalid username.
030015	Invalid email-address string.
030016	Invalid password string. It should be at least 6 characters and no more than 50.
030017	Invalid 'true' or 'false' string.
030019	Timezone and day light saving specification must be specified together.
030020	Username has to be unique.
030021	Service is unavailable at present time.
030099	Not a supported Time Zone.

Please review the security related errors that could occur for this method in the Security Errors section.

updateAccountUser

The *updateAccountUser* method updates an account user with specified parameters. The specified first name and last name combination has to be unique.

Request Parameters: UpdateUserRequest

Name	Data Type	Comments
Id	String	User ID used to identify the user which update would be applied.
FirstName	String	Optional. First name of the account user
LastName	String	Optional. Last name of the account user
EmailAddress	String	Optional. Email-address
TimeZone	String	Optional. GMT, GMT-5:00, GMT+10:00, etc.
UseDaylightSavings	String	Optional. 'true' or 'false'
ViewAllFleet	String	Optional. 'true' or 'false'
ViewUnassignedMobiles	String	Optional. 'true' or 'false'
Password	String	Optional. Password used to log in to NexTraq online system
Permissions	List<String>	Optional. Each element in the list has to be one of the following: ROLE_ACCT_USER_MAPS, ROLE_ACCT_USER_DISPATCH, ROLE_ACCT_USER_REPORTS, ROLE_ACCT_USER_ALERTS, ROLE_ACCT_USER_ROUTES, ROLE_ACCT_USER_MAINT, ROLE_ACCT_USER_MSGS, ROLE_ACCT_USER_ADMIN_LOCATIONS, ROLE_ACCT_USER_ADMIN_ZONES, ROLE_ACCT_USER_ADMIN_MOBILES, ROLE_ACCT_USER_ADMIN_DRIVERS, ROLE_ACCT_USER_ADMIN_FLEETS, ROLE_ACCT_USER_ADMIN_ACCOUNT, ROLE_ACCT_ADMIN

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	The user ID in string format.

The definition of `UpdateUserRequest` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/AccountUserManagerV1.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030011	Invalid first name. The string length should be between 1 and 50 inclusive.
030012	Invalid last name. The string length should be between 1 and 50 inclusive.
030013	Invalid username.
030015	Invalid email-address string.
030016	Invalid password string. It should be at least 6 characters and no more than 50.
030017	Invalid 'true' or 'false' string.
030018	Username could not be updated.
030019	Timezone and day light saving specification must be specified together.
030020	Username has to be unique.

030021	Service is unavailable at present time.
030099	Not a supported Time Zone.

Please review the security related errors that could occur for this method in the Security Errors section.

deleteAccountUser

The *deleteAccountUser* method is not currently implemented and will return an error to the user when called.

Request Parameters: DeleteUserRequest

Name	Data Type	Comments
Id	String	User ID used to identify the user which deletion would be applied.

Response Parameters: CUDResponse

Name	Data Type	Comments
DWError	String	This method is not currently implemented.

The definition of `DeleteUserRequest` can be found in the XML schema at http://services.discretewireless.com/v2009_2/xsd/AccountUserManagerV1.xsd.

Error Codes

Code	Message
030119	This method is not currently implemented.

Please review the security related errors that could occur for this method in the Security Errors section.

DriverManagerV1

Driver Manager Web Service offers access to mobile drivers. You can use Driver Manager Web Service to create a driver with or without assigning a mobile, update driver information, assign a driver to a mobile, delete a driver, and retrieve driver list with various criteria.

Service Location

`http://services.discretewireless.com/v2009_2/DriverManagerV1`
(HTTP GET is disabled for security reasons on service URIs.)

WSDL Location

`http://services.discretewireless.com/v2009_2/DriverManagerV1.wsdl`

Methods

- **getAllDrivers**
- **getDriversByMobileNameContains**
- **getDriversbyFirstNameContains**
- **getDriversByLastNameContains**
- **getDriverByDriverId**
- **getDriverByMobileHardwareId**
- **createDriver**
- **updateDriver**
- **deleteDriver**
- **createMobileAssignment**
- **updateMobileAssignment**
- **deleteMobileAssignment**
- **listMobileAssignmentsByMobile**
- **listMobileAssignmentsByDriver**
- **getMobileAssignmentById**
- **listUnassignedDrivers**
- **getDriverDetails**

getAllDrivers

The *getAllDrivers* method retrieves all mobile drivers. These drivers belong to the account associated with the user authentication token.

Request Parameters: GetAllDriversRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.

Response Parameters: GetDriversResponse

Name	Data Type	Comments
	Collection<`DriverPlusMobile`>	Collection of DriverPlusMobile

The definitions of `GetAllDriversRequest` and `GetDriversResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DriverManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.

Please review the security related errors that could occur for this method in the Security Errors section.

getDriversByMobileNameContains

The *getDriversByMobileNameContains* method retrieves a list of mobile drivers assigned with a mobile whose mobile name containa the specified string. These drivers belong to the account associated with the user authentication token.

Request Parameters: GetDriversByMobileNameContainsRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.
MobileNameContains	String	Mobile name or part of it.

Response Parameters: GetDriversResponse

Name	Data Type	Comments
	Collection<`DriverPlusMobile`>	Collection of DriverPlusMobile

The definitions of `GetDriversByMobileNameContainsRequest` and `GetDriversResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DriverManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.
030025	Invalid mobile name. The string length should be between 1 and 50 inclusive.

Please review the security related errors that could occur for this method in the Security Errors section.

getDriversByFirstNameContains

The *getDriversByFirstNameContains* method retrieves a list of mobile drivers whose first name contains the specified string. These drivers belong to the account associated with the user authentication token.

Request Parameters: GetDriversByFirstNameContainsRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.
FirstNameContains	String	First name or part of it.

Response Parameters: GetDriversResponse

Name	Data Type	Comments
	Collection<`DriverPlusMobile`>	Collection of DriverPlusMobile

The definitions of `GetDriversByFirstNameContainsRequest` and `GetDriversResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DriverManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.
030011	Invalid first name. The string length should be between 1 and 50 inclusive.

Please review the security related errors that could occur for this method in the Security Errors section.

getDriversByLastNameContains

The *getDriversByLastNameContains* method retrieves a list of mobile drivers whose last name contains the specified string. These drivers belong to the account associated with the user authentication token.

Request Parameters: GetDriversByLastNameContainsRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.
LastNameContains	String	Last name or part of it.

Response Parameters: GetDriversResponse

Name	Data Type	Comments
	Collection<`DriverPlusMobile`>	Collection of DriverPlusMobile

The definitions of `GetDriversByLastNameContainsRequest` and `GetDriverResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DriverManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.
030012	Invalid last name. The string length should be between 1 and 50 inclusive.

Please review the security related errors that could occur for this method in the Security Errors section.

getDriverByDriverId

The *getDriverByDriverId* method retrieves the mobile driver whose system ID is equal to the specified string. If the driver is not found, an empty list is returned.

Request Parameters: GetDriverByDriverIdRequest

Name	Data Type	Comments
Id	String	System ID.

Response Parameters: GetDriverResponse

Name	Data Type	Comments
FirstName	String	First name.
LastName	String	Last name.
EmailAddress	String	Email-address.
PhoneNumber	String	Driver phone number.
DriverId	String	System ID.
AssignedMobile	`MobileBrief`	Mobile Object.

The definitions of `GetDriverByDriverIdRequest` and `GetDriverResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DriverManagerV1.xsd.

Error Codes

Code	Message
030022	Invalid 'Id' string is specified.
030026	Invalid driver ID is specified, for it is not found.

Please review the security related errors that could occur for this method in the Security Errors section.

getDriverByMobileHardwareId

The *getDriverByMobileHardwareId* method retrieves the mobile driver assigned to a mobile unit whose hardware ID is equal to the specified string. If the driver is not found, an empty list is returned.

Request Parameters: GetDriverByMobileRequest

Name	Data Type	Comments
HardwareId	String	Mobile unit hardware ID.

Response Parameters: GetDriverResponse

Name	Data Type	Comments
FirstName	String	First name.
LastName	String	Last name.
EmailAddress	String	Email-address.
PhoneNumber	String	Driver phone number.

DriverId	String	System ID.
AssignedMobile	`MobileBrief`	Mobile Object.

The definitions of `GetDriverByMobileRequest` and `GetDriverResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DriverManagerV1.xsd.

Error Codes

Code	Message
030004	Invalid mobile hardware ID.

Please review the security related errors that could occur for this method in the Security Errors section.

createDriver

The *createDriver* method creates a driver with the specified parameters. The first and last name combination must be unique.

Request Parameters: CreateDriverRequest

Name	Data Type	Comments
FisrtName	String	First name of the account user
LastName	String	Last name of the account user
EmailAddress	String	Email-address
PhoneNumber	String	Driver phone number.
StateDriverLicense	String	State driver license information.
OtherDriverLicense	String	Other driver license information.
HardwareId	String	Optional hardware ID for new mobile assignment for this driver.
StartDate	DateTime	Optional start date for new mobile assignment. If optional hardwareId is specified, the value of this field defaults to current time.
EndDate	DateTime	Optional end date.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	Driver ID in string format.

The definitions of `CreateDriverRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/DriverManagerV1.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030011	Invalid first name. The string length should be between 1 and 50 inclusive.

030012	Invalid last name. The string length should be between 1 and 50 inclusive.
030015	Invalid email-address string.
030024	Specified driver name already exists.
030028	Invalid driver license information. The string length should be between 1 and 50 inclusive.
030021	Service is unavailable at present time.
030004	Invalid mobile hardware ID.

Please review the security related errors that could occur for this method in the Security Errors section.

updateDriver

The *updateDriver* method updates a driver with the specified parameters. The first and last name combination has to be unique. This method allows a user to be updated with a 'new' mobile assignment. To change a mobile assignment start and end date for a driver, please use *updateMobileAssignment*.

Request Parameters: UpdateDriverRequest

Name	Data Type	Comments
FisrtName	String	First name of the account user
LastName	String	Last name of the account user
EmailAddress	String	Email-address
PhoneNumber	String	Driver phone number.
StateDriverLicense	String	State driver license information.
OtherDriverLicense	String	Other driver license information.
HardwareId	String	Optional hardware ID for new mobile assignment for this driver.
StartDate	DateTime	Optional start date for new mobile assignment. If optional hardwareId is specified, the value of this field defaults to current time.
EndDate	DateTime	Optional end date.
Id	String	Driver ID used to identify the driver which update would be applied.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	Driver ID in string format.

The definitions of `UpdateDriverRequest` can be found at
http://services.discretewireless.com/v2009_2/xsd/DriverManagerV1.xsd.

The definitions of `CUDResponse` can be found at
http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030011	Invalid first name. The string length should be between 1 and 50 inclusive.
030012	Invalid last name. The string length should be between 1 and 50 inclusive.
030015	Invalid email-address string.
030024	Specified driver name already exists.
030026	Invalid driver ID is specified, for it is not found.
030028	Invalid driver license information. The string length should be between 1 and 50 inclusive.
030021	Service is unavailable at present time.
030004	Invalid mobile hardware ID.

Please review the security related errors that could occur for this method in the Security Errors section.

deleteDriver

The *deleteDriver* method marks the specified driver as deleted.

Request Parameters: DeleteDriverRequest

Name	Data Type	Comments
Id	String	Driver ID used to identify the user which deletion would be applied.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	Driver ID in string format.

The definitions of `DeleteDriverRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/DriverManagerV1.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030022	Invalid 'Id' string is specified.
030026	Invalid driver ID is specified, for it is not found.
030021	Service is unavailable at present time.

Please review the security related errors that could occur for this method in the Security Errors section.

createMobileAssignment

The *createMobileAssignment* method assigns the specified driver to the specified mobile with an optional start and end date.

Request Parameters: CreateMobileAssignmentRequest

Name	Data Type	Comments
DriverId	String	Driver ID is used to identify the user to which the assignment would be applied.
HardwareId	String	Mobile hardware ID.
StartDate	DateTime	Optional start date for this mobile assignment. The value defaults to current time.
EndDate	DateTime	Optional end date.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	Driver mobile assignment System ID in string format.

The definitions of `CreateMobileAssignmentRequest` can be found at
http://services.discretewireless.com/v2009_2/xsd/DriverManagerV1.xsd.

The definitions of `CUDResponse` can be found at
http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030022	Invalid 'Id' string is specified.
030026	Invalid driver ID is specified, for it is not found.
030004	Invalid mobile hardware ID.
030021	Service is unavailable at present time.

Please review the security related errors that could occur for this method in the Security Errors section.

updateMobileAssignment

The *updateMobileAssignment* method updates the specified mobile assignment associated with the `MobileAssignmentId`. The original mobile ID stays the same, but the assigned driver, start and end date can be updated.

Request Parameters: UpdateMobileAssignmentRequest

Name	Data Type	Comments
MobileAssignmentId	String	Mobile assignment system ID.
DriverId	String	Driver ID is used to identify the user to which update would be applied.
StartDate	DateTime	Optional start date for this mobile assignment. The value defaults to current time.
EndDate	DateTime	Optional end date.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	Driver mobile assignment system ID in string format.

The definitions of `UpdateMobileAssignmentRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/DriverManagerV1.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030022	Invalid 'Id' string is specified.
030026	Invalid driver ID is specified, for it is not found.
030004	Invalid mobile hardware ID.
030021	Service is unavailable at present time.

Please review the security related errors that could occur for this method in the Security Errors section.

deleteMobileAssignment

The *deleteMobileAssignment* method deletes the specified mobile assignment specified by `MobileAssignmentId`.

Request Parameters: DeleteMobileAssignmentRequest

Name	Data Type	Comments
MobileAssignmentId	String	Mobile assignment system ID.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	Driver mobile assignment system ID in string format.

The definitions of `DeleteMobileAssignmentRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/DriverManagerV1.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030022	Invalid 'Id' string is specified.
030026	Invalid driver ID is specified, for it is not found.
030004	Invalid mobile hardware ID.
030021	Service is unavailable at present time.

Please review the security related errors that could occur for this method in the Security Errors section.

listMobileAssignmentsByMobile

The *listMobileAssignmentsByMobile* method retrieves a list of mobile assignments that contains the history of driver assignments for the specified mobile.

Request Parameters: ListMobileAssignmentsByMobileRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.
MobileId	String	Mobile hardware ID.

Response Parameters: ListMobileAssignmentsResponse

Name	Data Type	Comments
MobileAssignmentId	String	Mobile Assignment System ID.
DriverPlusMobile	DriverPlusMobile	Driver and mobile information.
StartDate	DateTime	Start date for the mobile assignment.
EndDate	DateTime	End date for the mobile assignment. If 'null', it means that there is no end date.

The definitions of `ListMobileAssignmentsByMobileRequest` and `ListMobileAssignmentsResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DriverManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.
030012	Invalid last name. The string length should be between 1 and 50 inclusive.

Please review the security related errors that could occur for this method in the Security Errors section.

listMobileAssignmentsByDriver

The *listMobileAssignmentsByDriver* method retrieves a list of mobile assignments that contains the overall view of mobile assignments for the specified driver.

Request Parameters: ListMobileAssignmentsByDriverRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.
DriverId	String	Driver system ID.

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Response Parameters: ListMobileAssignmentsResponse

The definitions of ListMobileAssignmentsByDriverRequest and ListMobileAssignmentsResponse can be found at http://services.discretewireless.com/v2009_2/xsd/DriverManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.
030012	Invalid last name. The string length should be between 1 and 50 inclusive.

Please review the security related errors that could occur for this method in the Security Errors section.

getMobileAssignmentById

The *getMobileAssignmentById* method retrieves the specified mobile assignment.

Request Parameters: GetMobileAssignmentByIdRequest

Name	Data Type	Comments
MobileAssignmentId	String	Mobile assignment system ID.

Response Parameters: GetMobileAssignmentResponse

Name	Data Type	Comments
MobileAssignmentId	String	Mobile Assignment System ID.
DriverPlusMobile	`DriverPlusMobile`	Driver and mobile information.
StartDate	DateTime	Start date for the mobile assignment.
EndDate	DateTime	End date for the mobile assignment. If 'null', it means that there is no end date.

The definitions of `GetMobileAssignmentByIdRequest` and `GetMobileAssignmentResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DriverManagerV1.xsd.

Error Codes

Code	Message
030012	Invalid last name. The string length should be between 1 and 50 inclusive.

Please review the security related errors that could occur for this method in the Security Errors section.listUnassignedDrivers

Retrieves all drivers currently not assigned to a mobile.

Request Parameters: GetUnassignedDriversRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned should be between 1 and 1000 inclusive.

Response Parameters: GetUnassignedDriversResponse

Name	Data Type	Comments
DriverPlusMobile	`DriverPlusMobile`	Driver and mobile information.

The definitions of `GetUnassignedDriversRequest` and `GetUnassignedDriversResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DriverManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult'.

Please review the security related errors that could occur for this method in the Security Errors section.

getDriverDetails

Retrieves driver details for all drivers in the account.

Request Parameters: GetUnassignedDriversRequest

Name	Data Type	Comments
MaxResults	int	Max number of records returned per page, should be between 1 and 1000 inclusive. NOTE: C# clients need to set 'MaxResultsSpecified' to True in order for MaxResults to be sent to the server as part of the request.
Page	Int	Specifies the page of the results to retrieve. By default, if maxResults is not set, pages are broken up into groups of 1000 results and defaults to page 1. The number of results per page can be limited by defining maxResults.
FilterCriteria	FilterCriteria	A key/value object that accepts user specified fields that are used to limit the search results. Currently available fields are listed below. As keys are case insensitive and can be used in conjunction with eachother. An exception is thrown if an invalid filterKey is provided.
SortBy	String	Field used to sort the results. Any of the keys listed with the fiilterCriteria can be used as an acceptable sort value.
Ascending	Boolean	Specifies if the results are in ascending order.

Response Parameters: GetUnassignedDriversResponse

Name	Data Type	Comments
DriverPlusAttributes	`DriverPlus`Attributes	Driver and mobile information.

The definitions of `GetUnassignedDriversRequest` and `GetUnassignedDriversResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DriverManagerV1.xsd.

Available Filter Criteria key values

Key	Comments
driverId	Driver ID
firstName	Driver first name
lastName	Driver last name
assignedMobileHardwareId	Hardware ID of a mobile that currently has a driver assignment.
stateDL	Driver's state driver's lisence
otherDL	Driver's other state driver's lisence
keyFobId	Driver's key fob ID
assignedMobileName	Name of a mobile that currently has a driver assignment
driverPhoneNumber	Driver's phone number

Error Codes

Code	Message
030009	Invalid 'MaxResult'.
030006	Invalid FilterCriteria key. No mapping exists for key value.

Please review the security related errors that could occur for this method in the Security Errors section.

Sample Code

```
public GetDriverDetailsResponse GetDriverDetails()
{
        DriverServiceV1.DriverManagerV1Port service =
                new DriverServiceV1.DriverManagerV1Port();
        GetDriverDetailsRequest request = new GetDriverDetailsRequest();

        //Filter criteria that will be applied to the result set.
        FilterCriteria[] allFilterCriteria = new FilterCriteria[1];
        FilterCriteria lastNameCriteria = new FilterCriteria();
        lastNameCriteria.FilterKey = "lastName";
        lastNameCriteria.SearchTerm = "smith";
        allFilterCriteria[0] = lastNameCriteria;
        request.FilterCriteria = allFilterCriteria;

        //Result set will be sorted by driver's last name in ascending order.
        request.SortBy = "lastname";
        request.ascending = true;

        GetDriverDetailsResponse allDrivers = service.getDriverDetails(request);

        return allDrivers;
}
```

AlertManagerV2

Alert Manager Version 2 Web Service offers creation, modification, deletion and listing of alert definitions. You can use Alert Manager Version 2 Web Service to manage various types of alert definitions with different sets of parameters. There is one operation, *getMobilesWithSensors*, providing information of sensors associated with mobiles to aid parameters used in sensor-related web services. Mobile Manager V1 Web Service has *findAllFleets* which provides fleet name association with fleet ID, which is a possible parameter in alert definitions.

Service Location
`http://services.discretewireless.com/v2009_2/AlertManagerV2`
(HTTP GET is disabled for security reasons on service URIs.)

WSDL Location
http://services.discretewireless.com/v2009_2/AlertManagerV2.wsdl

Methods
- **createAlertDefinitinArriveLocation**
- **createAlertDefinitionDepartLocation**
- **createAlertDefinitionEnterZipCodes**
- **createAlertDefinitionExitZipCodes**
- **createAlertDefinitionEnterZone**
- **createAlertDefinitionExitZone**
- **createAlertDefinitionExtendedStop**
- **createAlertDefinitionFirstMovement**
- **createAlertDefinitionHighTemperature**
- **createAlertDefinitionIdle**
- **createAlertDefinitionMotion**
- **createAlertDefinitionNoMovement**
- **createAlertDefinitionPostedSpeed**
- **createAlertDefinitionSensorActInact**
- **createAlertDefinitionSensorActive**
- **createAlertDefinitionSensorInactive**
- **createAlertDefinitionSpeed**
- **updateAlertDefinitionArriveLocation**
- **updateAlertDefinitionDepartLocation**
- **updateAlertDefinitionEnterZipCodes**
- **updateAlertDefinitionExitZipCodes**
- **updateAlertDefinitionEnterZone**
- **updateAlertDefinitionExitZone**
- **updateAlertDefinitionExtendedStop**
- **updateAlertDefinitionFirstMovement**
- **updateAlertDefinitionHighTemperature**
- **updateAlertDefinitionIdle**
- **updateAlertDefinitionMotion**
- **updateAlertDefinitionNoMovement**
- **updateAlertDefinitionPostedSpeed**
- **updateAlertDefinitionSensorActInact**
- **updateAlertDefinitionSensorActive**
- **updateAlertDefinitionSensorInactive**

- **updateAlertDefinitionSpeed**
- **deleteAlertDefinition**
- **getAlertDefinitionByUserId**
- **getMobilesWithSensors**

createAlertDefinitionArriveLocation

The cre*ateAlertDefinitionArriveLocation* method creates an alert definition to generate alert events when mobiles arrive at a location in a time period on given day(s). An email would be sent to specified recipients to notify this event.

Request Parameters: CreateAlertArriveLocationRequest

Name	Data Type	Comments
Name	String	Alert definition name. It must be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
AppliesTo	`AppliesTo`	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
AllOrBetweenTimes	`AllOrBetweenTimes`	One of two options should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
ArriveLocation	String	Location system ID or its external reference.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition.

The definitions of `CreateAlertArriveLocationRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030041	Invalid alert definition name. The string length should be between 1 and 50 inclusive.
030044	Alert definition name in not unique within the user account.
030040	Invalid 'Enabled' value. Only 'true' or 'false' is valid
030015	Invalid email-address string.
030031	Invalid list specification. At least one element should be specified.
030042	Invalid user ID string. The string length should be between 1 and 50 inclusive.
030023	Specified user Id does not exist.
030002	Location not found within account

Please review the security related errors that could occur for this method in the Security Errors section.

createAlertDefinitionDepartLocation

The *createAlertDefinitionDepartLocation* method creates an alert definition to generate alert events when mobiles depart a location in a time period on given day(s). An email would be sent to specified recipients to notify this event.

Request Parameters: CreateAlertDepartLocationRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	ActiveDays	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
AppliesTo	AppliesTo	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
AllOrBetweenTimes	AllOrBetweenTimes	One of two options must be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
DepartLocation	String	Location system ID or its external reference.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert

		definition.

The definitions of `CreateAlertDepartLocationRequest` can be found at
http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd

The definitions of `CUDResponse` can be found at
http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030041	Invalid alert definition name. The string length should be between 1 and 50 inclusive.
030044	Alert definition name in not unique within specified user account.
030040	Invalid 'Enabled' value. Only 'true' or 'false' is valid
030015	Invalid email-address string.
030031	Invalid list specification. At least one element should be specified.
030042	Invalid user ID string. The string length should be between 1 and 50 inclusive.
030023	Specified user Id does not exist.
030002	Location not found within account

Please review the security related errors that could occur for this method in the Security Errors
section.

createAlertDefinitionEnterZone

The *createAlertDefinitionEnterZone* method creates an alert definition to generate alert events
when mobiles enter a zone in a time period on given day(s). An email would be sent to
specified recipients to notify this event.

Request Parameters: CreateAlertEnterZoneRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
AppliesTo	`AppliesTo`	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
AllOrBetweenTimes	`AllOrBetweenTimes`	One of two options must be used to indicate hours of a day when this alert definition is active. The options

		are: 'TwentyFourHoursPerDay' and 'Between'.
EnterZone	String	Zone system ID in string representation.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition.

The definitions of `CreateAlertEnterZoneRequest` can be found at
http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd

The definitions of `CUDResponse` can be found at
http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030041	Invalid alert definition name. The string length should be between 1 and 50 inclusive.
030044	Alert definition name in not unique within specified user account.
030040	Invalid 'Enabled' value. Only 'true' or 'false' is valid
030015	Invalid email-address string.
030031	Invalid list specification. At least one element should be specified.
030042	Invalid user ID string. The string length should be between 1 and 50 inclusive.
030023	Specified user Id does not exist.

Please review the security related errors that could occur for this method in the Security Errors section.

createAlertDefinitionExitZone

The *createAlertDefinitionExitZone* method creates an alert definition to generate alert events when mobiles exit a zone in a time period on given day(s). An email would be sent to specified recipients to notify this event.

Request Parameters: CreateAlertExitZoneRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.

UserId	String	String representation of 'long' value identifying a user account.
AppliesTo	`AppliesTo`	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
AllOrBetweenTimes	`AllOrBetweenTimes`	One of two options must be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
ExitZone	String	Zone system ID in string representation.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition.

The definitions of `CreateAlertExitZoneRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd

The definitions of CUDResponse can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030041	Invalid alert definition name. The string length should be between 1 and 50 inclusive.
030044	Alert definition name in not unique within specified user account.
030040	Invalid 'Enabled' value. Only 'true' or 'false' is valid
030015	Invalid email-address string.
030031	Invalid list specification. At least one element should be specified.
030042	Invalid user ID string. The string length should be between 1 and 50 inclusive.
030023	Specified user Id does not exist.
030002	ID not found within account

Please review the security related errors that could occur for this method in the Security Errors section.

createAlertDefinitionFirstMovement

The *createAlertDefinitionFirstMovement* method creates an alert definition to generate alert events when mobiles first move in a time period on given day(s). An email would be sent to specified recipients to notify this event.

Request Parameters: CreateAlertFirstMovementRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.

ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
AppliesTo	`AppliesTo`	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
AllOrBetweenTimes	`AllOrBetweenTimes`	One of two options must be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition.

The definitions of `CreateAlertFirstMovementRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030041	Invalid alert definition name. The string length should be between 1 and 50 inclusive.
030044	Alert definition name in not unique within specified user account.
030040	Invalid 'Enabled' value. Only 'true' or 'false' is valid
030015	Invalid email-address string.
030031	Invalid list specification. At least one element should be specified.
030042	Invalid user ID string. The string length should be between 1 and 50 inclusive.
030023	Specified user Id does not exist.

Please review the security related errors that could occur for this method in the Security Errors section.

createAlertDefinitionNoMovement

The *createAlertDefinitionNoMovement* method creates an alert definition to generate alert events when mobiles do not move before an hour of a day on given day(s). An email would be sent to specified recipients to notify this event.

Request Parameters: CreateAlertNoMovementRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
AppliesTo	`AppliesTo`	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
BeforeTime	`HourChoices`	Enumeration string. Valid value is make up of 'hour value' followed by 'am' or 'pm'; e.g. '1am', '11pm', etc.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition.

The definitions of `CreateAlertNoMovementRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030041	Invalid alert definition name. The string length should be between 1 and 50 inclusive.
030044	Alert definition name in not unique within specified user account.
030040	Invalid 'Enabled' value. Only 'true' or 'false' is valid
030015	Invalid email-address string.
030031	Invalid list specification. At least one element should be specified.
030042	Invalid user ID string. The string length should be between 1 and 50 inclusive.
030023	Specified user Id does not exist.

Please review the security related errors that could occur for this method in the Security Errors section.

NexTraq Web Services

createAlertDefinitionMotion

The cre*eteAlertDefinitionMotion* method creates an alert definition to generate alert events when mobiles arrive at a location at specified times on given day(s). An email would be sent to specified recipients to notify this event.

Request Parameters: CreateAlertMotionRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
AppliesTo	`AppliesTo`	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
BeforeAfterTimes	`BeforeAfterTimes`	Specifies the time period.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition.

The definitions of `CreateAlertMotionRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030041	Invalid alert definition name. The string length should be between 1 and 50 inclusive.
030044	Alert definition name in not unique within specified user account.
030040	Invalid 'Enabled' value. Only 'true' or 'false' is valid
030015	Invalid email-address string.
030031	Invalid list specification. At least one element should be specified.
030042	Invalid user ID string. The string length should be between 1 and 50 inclusive.
030023	Specified user Id does not exist.

Please review the security related errors that could occur for this method in the <u>Security Errors</u> section.

createAlertDefinitionExtendedStop

The *createAlertDefinitionExtendedStop* method creates an alert definition to generate alert events when mobiles stop more than a specified number of minutes in a time period on given day(s). An email would be sent to specified recipients to notify this event.

Request Parameters: CreateAlertExtendedStopRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
AppliesTo	`AppliesTo`	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
AllOrBetweenTimes	`AllOrBetweenTimes`	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
MaxStopTime	String	Minutes of maximum stop time in string representation. It should be between 15 and 180 minutes.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition.

The definitions of `CreateAlertExtendedStopRequest` can be found at <u>http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd</u>.

The definitions of `CUDResponse` can be found at <u>http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd</u>.

Error Codes

Code	Message
030041	Invalid alert definition name. The string length should be between 1 and 50 inclusive.
030044	Alert definition name in not unique within specified user account.
030040	Invalid 'Enabled' value. Only 'true' or 'false' is valid
030015	Invalid email-address string.
030031	Invalid list specification. At least one element should be specified.
030042	Invalid user ID string. The string length should be between 1 and 50 inclusive.
030023	Specified user Id does not exist.
030047	Invalid extended stop time. It should be between 15 and 180 minutes.

Please review the security related errors that could occur for this method in the Security Errors section.

createAlertDefinitionSpeed

The *createAlertDefinitionSpeed* method creates an alert definition to generate alert events when mobiles run at speed higher than a specified miles per hours in a time period on given day(s). An email would be sent to specified recipients to notify this event.

Request Parameters: CreateAlertSpeedRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
AppliesTo	`AppliesTo`	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
AllOrBetweenTimes	`AllOrBetweenTimes`	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
MaxSpeed	String	Maximum speed in mph (in string representation) before triggering alert event.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition.

The definitions of `CreateAlertSpeedRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030041	Invalid alert definition name. The string length should be between 1 and 50 inclusive.
030044	Alert definition name in not unique within specified user account.
030040	Invalid 'Enabled' value. Only 'true' or 'false' is valid
030015	Invalid email-address string.
030031	Invalid list specification. At least one element should be specified.
030042	Invalid user ID string. The string length should be between 1 and 50 inclusive.
030023	Specified user Id does not exist.
030092	Invalid Speed.

Please review the security related errors that could occur for this method in the Security Errors section.

createAlertDefinitionPostedSpeed

The *createAlertDefinitionPostedSpeed* method creates an alert definition to generate alert events when mobiles run at specified miles per hour higher than the posted speed limit in a time period on given day(s). An email would be sent to specified recipients to notify this event.

Request Parameters: CreateAlertPostedSpeedRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
AppliesTo	`AppliesTo`	One of three options should be used to indicate

		target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
AllOrBetweenTimes	`AllOrBetweenTimes`	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
MaxTolerance	String	Maximum tolerance speed in mph over posted speed limit.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition.

The definitions of `CreateAlertPostedSpeedRequest` can be found at
http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of `CUDResponse` can be found at
http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030041	Invalid alert definition name. The string length should be between 1 and 50 inclusive.
030044	Alert definition name in not unique within specified user account.
030040	Invalid 'Enabled' value. Only 'true' or 'false' is valid
030015	Invalid email-address string.
030031	Invalid list specification. At least one element should be specified.
030042	Invalid user ID string. The string length should be between 1 and 50 inclusive.
030023	Specified user Id does not exist.
030092	Invalid Speed.

Please review the security related errors that could occur for this method in the Security Errors section.

createAlertDefinitionSensorActive

The *createAlertDefinitionSensorActive* method creates an alert definition to generate alert events when a specified sensor on a mobile becomes active in a time period on given day(s). An email would be sent to specified recipients to notify this event.

Request Parameters: CreateAlertSensorActiveRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.

ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
HardwareId	String	Mobile hardware ID of the mobile which is the target of this alert definition.
AllOrBetweenTimes	`AllOrBetweenTimes`	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
ActiveSensor	String	Name of sensor when it becomes active this alert definition would be triggered.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition.

The definitions of `CreateAlertSensorActiveRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030041	Invalid alert definition name. The string length should be between 1 and 50 inclusive.
030044	Alert definition name in not unique within specified user account.
030040	Invalid 'Enabled' value. Only 'true' or 'false' is valid
030015	Invalid email-address string.
030031	Invalid list specification. At least one element should be specified.
030042	Invalid user ID string. The string length should be between 1 and 50 inclusive.
030023	Specified user Id does not exist.
30107	Sensor Not Found

Please review the security related errors that could occur for this method in the Security Errors section.

createAlertDefinitionSensorInactive

The *createAlertDefinitionSensorInactive* method creates an alert definition to generate alert events when a sensor on a mobile becomes inactive in a time period on given day(s). An email would be sent to specified recipients to notify this event.

Request Parameters: CreateAlertSensorInactiveRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
HaredwareId	String	Mobile hardware ID of the mobile which is the target of this alert definition.
AllOrBetweenTimes	`AllOrBetweenTimes`	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
InactiveSensor	String	Name of sensor when it becomes inactive this alert definition would be triggered.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition.

The definitions of `CreateAlertSensorInactiveRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030041	Invalid alert definition name. The string length should be between 1 and 50 inclusive.
030044	Alert definition name in not unique within specified user account.
030040	Invalid 'Enabled' value. Only 'true' or 'false' is valid
030015	Invalid email-address string.

030031	Invalid list specification. At least one element should be specified.
030042	Invalid user ID string. The string length should be between 1 and 50 inclusive.
030023	Specified user Id does not exist.
30107	Sensor Not Foun d

Please review the security related errors that could occur for this method in the Security Errors section.

createAlertDefinitionSensorActInact

The *createAlertDefinitionSensorActInact* method creates an alert definition to generate alert events when a sensor on a mobile changes its state in a time period on given day(s). An email would be sent to specified recipients to notify this event.

Request Parameters: CreateAlertSensorActInactRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
HaredwareId	String	Mobile hardware ID of the mobile which is the target of this alert definition.
AllOrBetweenTimes	`AllOrBetweenTimes`	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
ActInactSensor	String	Name of sensor when it changes its state of active/inactive this alert definition would be triggered.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition.

The definitions of `CreateAlertSensorActInactRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of `CUDResponse` can be found at
http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030041	Invalid alert definition name. The string length should be between 1 and 50 inclusive.
030044	Alert definition name in not unique within specified user account.
030040	Invalid 'Enabled' value. Only 'true' or 'false' is valid
030015	Invalid email-address string.
030031	Invalid list specification. At least one element should be specified.
030042	Invalid user ID string. The string length should be between 1 and 50 inclusive.
030023	Specified user Id does not exist.
30107	Sensor Not Foun d

Please review the security related errors that could occur for this method in the Security Errors section.

createAlertDefinitionEnterZipCodes

The *createAlertDefinitionEnterZipCodes* method creates an alert definition to generate alert events when mobiles enter certain zip codes in a time period on given day(s). An email would be sent to specified recipients to notify this event.

Request Parameters: CreateAlertEnterZipCodesRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
AppliesTo	`AppliesTo`	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
AllOrBetweenTimes	`AllOrBetweenTimes`	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
EnterZipCode	List<String>	List of zip codes.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition.

The definitions of `CreateAlertEnterZipCodesRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of CUDResponse can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030041	Invalid alert definition name. The string length should be between 1 and 50 inclusive.
030044	Alert definition name in not unique within specified user account.
030040	Invalid 'Enabled' value. Only 'true' or 'false' is valid
030015	Invalid email-address string.
030031	Invalid list specification. At least one element should be specified.
030042	Invalid user ID string. The string length should be between 1 and 50 inclusive.
030023	Specified user Id does not exist.

Please review the security related errors that could occur for this method in the Security Errors section.

createAlertDefinitionExitZipCodes

The *createAlertDefinitionExitZipCodes* method creates an alert definition to generate alert events when mobiles exit certain zip codes in a time period on given day(s). An email would be sent to specified recipients to notify this event.

Request Parameters: CreateAlertExitZipCodesRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
AppliesTo	`AppliesTo`	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
AllOrBetweenTimes	`AllOrBetweenTimes`	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
ExitZipCode	List	List of zip codes.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition.

The definitions of `CreateAlertExitZipCodesRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030041	Invalid alert definition name. The string length should be between 1 and 50 inclusive.
030044	Alert definition name in not unique within specified user account.
030040	Invalid 'Enabled' value. Only 'true' or 'false' is valid
030015	Invalid email-address string.
030031	Invalid list specification. At least one element should be specified.
030042	Invalid user ID string. The string length should be between 1 and 50 inclusive.
030023	Specified user Id does not exist.

Please review the security related errors that could occur for this method in the Security Errors section.

createAlertDefinitionIdle

The *createAlertDefinitionIdle* method creates an alert definition to generate alert events when mobiles idle more than specified minutes in a time period on given day(s). An email would be sent to specified recipients to notify this event.

Request Parameters: CreateAlertIdleRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.

AppliesTo	**AppliesTo**	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
AllOrBetweenTimes	**AllOrBetweenTimes**	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
MaxIdleTime	String	Maximum minutes of idle before alert event is triggered. It should be at least 10 minutes.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition.

The definitions of `CreateAlertIdleRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030041	Invalid alert definition name. The string length should be between 1 and 50 inclusive.
030044	Alert definition name in not unique within specified user account.
030040	Invalid 'Enabled' value. Only 'true' or 'false' is valid
030015	Invalid email-address string.
030031	Invalid list specification. At least one element should be specified.
030042	Invalid user ID string. The string length should be between 1 and 50 inclusive.
030023	Specified user Id does not exist.
030048	Invalid idle time. It should be at least 10 minutes.

Please review the security related errors that could occur for this method in the Security Errors section.

createAlertDefinitionHighTemperature

The *createAlertDefinitionHighTemperature* method creates an alert definition to generate alert events when a temperature-sensitive device on mobiles is above the specified temperature in a time period on given day(s). An email would be sent to specified recipients to notify this event.

Request Parameters: CreateAlertHighTemperatureRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off

		alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
AppliesTo	`AppliesTo`	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
AllOrBetweenTimes	`AllOrBetweenTimes`	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
MaxTemperature	String	Maximum degrees, in Fahrenheit, in string representation.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition.

The definitions of `CreateAlertHighTemperatureRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030041	Invalid alert definition name. The string length should be between 1 and 50 inclusive.
030044	Alert definition name in not unique within specified user account.
030040	Invalid 'Enabled' value. Only 'true' or 'false' is valid
030015	Invalid email-address string.
030031	Invalid list specification. At least one element should be specified.
030042	Invalid user ID string. The string length should be between 1 and 50 inclusive.
030023	Specified user Id does not exist.
030106	Invalid Temperature

Please review the security related errors that could occur for this method in the Security Errors section.

updateAlertDefinitionArriveLocation

The *updateAlertDefinitionArriveLocation* method updates specified 'arrive location' alert definition identified by alert definition ID, which is returned when a new definition is created. `Id` is the only required parameter and other parameters listed in associated alert definition creation are optional in update. 'null' value (i.e. not specified) intends for no change. Empty string (i.e. '') would erase original string value. There could be error codes associated with optional parameters and please refer to associated alert definition creation section.

Request Parameters: UpdateAlertArriveLocationRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
AppliesTo	`AppliesTo`	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
AllOrBetweenTimes	`AllOrBetweenTimes`	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
ArriveLocation	String	Location system ID or its external reference.
Id	String	Alert definition ID in string representation.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition. '-1' indicates operation failure.

The definitions of `UpdateAlertArriveLocationRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030043	Invalid alert definition ID is specified, for it is not found.

Please review the security related errors that could occur for this method in the <u>Security Errors</u> section.

updateAlertDefinitionDepartLocation

The *updateAlertDefinitionDepartLocation* method updates specified 'depart location' alert definition identified by alert definition ID, which is returned when a new definition is created. `Id` is the only required parameter and other parameters listed in associated alert definition creation are optional in update. 'null' value (i.e. not specified) intends for no change. Empty string (i.e. '') would erase original string value. There could be error codes associated with optional parameters and please refer to associated alert definition creation section.

Request Parameters: UpdateAlertDepartLocationRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
AppliesTo	`AppliesTo`	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
AllOrBetweenTimes	`AllOrBetweenTimes`	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
DepartLocation	String	Location system ID or its external reference.
Id	String	Alert definition ID in string representation.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition. '-1' indicates operation failure.

The definitions of `UpdateAlertDepartLocationRequest` can be found at
http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of `CUDResponse` can be found at
http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030043	Invalid alert definition ID is specified, for it is not found.

Please review the security related errors that could occur for this method in the Security Errors section.

updateAlertDefinitionEnterZone

The *updateAlertDefinitionEnterZone* method updates specified 'enter zone' alert definition identified by alert definition ID, which is returned when a new definition is created. `Id` is the only required parameter and other parameters listed in associated alert definition creation are optional in update. 'null' value (i.e. not specified) intends for no change. Empty string (i.e. '') would erase original string value. There could be error codes associated with optional parameters and please refer to associated alert definition creation section.

Request Parameters: UpdateAlertEnterZoneRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
AppliesTo	`AppliesTo`	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
AllOrBetweenTimes	`AllOrBetweenTimes`	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
EnterZone	String	Zone system ID in string representation.
Id	String	Alert definition ID in string representation.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition. '-1' indicates operation failure.

The definitions of `UpdateAlertEnterZoneRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030043	Invalid alert definition ID is specified, for it is not found.

Please review the security related errors that could occur for this method in the Security Errors section.

updateAlertDefinitionExitZone

The *updateAlertDefinitionExitZone* method updates specified 'arrive location' alert definition identified by alert definition ID, which was returned when a new definition is created. 'Id' is the only required parameter and other parameters listed in associated alert definition creation are optional in update. 'null' value (i.e. not specified) intends for no change. Empty string (i.e. '') would erase original string value. There could be error codes associated with optional parameters and please refer to associated alert definition creation section.

Request Parameters: UpdateAlertExitZoneRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
AppliesTo	`AppliesTo`	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
AllOrBetweenTimes	`AllOrBetweenTimes`	One of two members should be used to indicate

		hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
ExitZone	String	Zone system ID in string representation.
Id	String	Alert definition ID in string representation.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition. '-1' indicates operation failure.

The definitions of UpdateAlertExitZoneRequest can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of CUDResponse can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030043	Invalid alert definition ID is specified, for it is not found.

Please review the security related errors that could occur for this method in the Security Errors section.

updateAlertDefinitionFirstMovement

The *updateAlertDefinitionFirstMovement* method updates specified 'first movement' alert definition identified by alert definition ID, which was returned when a new definition is created. `Id` is the only required parameter and other parameters listed in associated alert definition creation are optional in update. 'null' value (i.e. not specified) intends for no change. Empty string (i.e. '') would erase original string value. There could be error codes associated with optional parameters and please refer to associated alert definition creation section.

Request Parameters: UpdateAlertFirstMovementRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user

		account.
AppliesTo	AppliesTo	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
AllOrBetweenTimes	AllOrBetweenTimes	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
Id	String	Alert definition ID in string representation.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition. '-1' indicates operation failure.

The definitions of `UpdateAlertFirstMovementRequest` can be found at
http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of `CUDResponse` can be found at
http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030043	Invalid alert definition ID is specified, for it is not found.

Please review the security related errors that could occur for this method in the Security Errors section.

updateAlertDefinitionNoMovement

The *updateAlertDefinitionNoMovement* method updates specified 'no movement' alert definition identified by alert definition ID, which was returned when a new definition is created. `Id` is the only required parameter and other parameters listed in associated alert definition creation are optional in update. 'null' value (i.e. not specified) intends for no change. Empty string (i.e. '') would erase original string value. There could be error codes associated with optional parameters and please refer to associated alert definition creation section.

Request Parameters: UpdateAlertNoMovementRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	ActiveDays	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include

		'7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
AppliesTo	`AppliesTo`	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
BeforeTimes	`HourChoices`	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
Id	String	Alert definition ID in string representation.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition. '-1' indicates operation failure.

The definitions of `UpdateAlertNoMovementRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030043	Invalid alert definition ID is specified, for it is not found.

Please review the security related errors that could occur for this method in the Security Errors section.

updateAlertDefinitionMotion

The *updateAlertDefinitionMotion* method updates specified 'motion' alert definition identified by alert definition ID, which was returned when a new definition is created. `Id` is the only required parameter and other parameters listed in associated alert definition creation are optional in update. 'null' value (i.e. not specified) intends for no change. Empty string (i.e. '') would erase original string value. There could be error codes associated with optional parameters and please refer to associated alert definition creation section.

Request Parameters: UpdateAlertMotionRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or

		CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
AppliesTo	`AppliesTo`	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
BeforeAfterTimes	`BeforeAfterTimes`	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
Id	String	Alert definition ID in string representation.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition. '-1' indicates operation failure.

The definitions of `UpdateAlertMotionRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030043	Invalid alert definition ID is specified, for it is not found.

Please review the security related errors that could occur for this method in the Security Errors section.

updateAlertDefinitionExtendedStop

The *updateAlertDefinitionExtendedStop* method updates specified 'extended stop' alert definition identified by alert definition ID, which was returned when a new definition is created. `Id` is the only required parameter and other parameters listed in associated alert definition creation are optional in update. 'null' value (i.e. not specified) intends for no change. Empty string (i.e. '') would erase original string value. There could be error codes associated with optional parameters and please refer to associated alert definition creation section.

Request Parameters: UpdateAlertExtendedStopRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.

Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
AppliesTo	`AppliesTo`	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
AllOrBetweenTimes	`AllOrBetweenTimes`	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
MaxStopTime	String	Minutes of maximum stop time in string representation. It should be between 15 and 180 minutes.
Id	String	Alert definition ID in string representation.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition. '-1' indicates operation failure.

The definitions of `UpdateAlertExtendedStopRequest` can be found at
http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of `CUDResponse` can be found at
http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030043	Invalid alert definition ID is specified, for it is not found.

Please review the security related errors that could occur for this method in the Security Errors section.

updateAlertDefinitionSpeed

The *updateAlertDefinitionSpeed* method updates specified 'speed' alert definition identified by alert definition ID, which was returned when a new definition is created. `Id` is the only required parameter and other parameters listed in associated alert definition creation are optional in update. 'null' value (i.e. not specified) intends for no change. Empty string (i.e. '') would erase

original string value. There could be error codes associated with optional parameters and please refer to associated alert definition creation section.

Request Parameters: UpdateAlertDefinitionSpeedRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
AppliesTo	`AppliesTo`	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
AllOrBetweenTimes	`AllOrBetweenTimes`	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
MaxSpeed	String	Maximum speed in mph (in string representation) before triggering alert event.
Id	String	Alert definition ID in string representation.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition. '-1' indicates operation failure.

The definitions of `UpdateAlertSpeedRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030043	Invalid alert definition ID is specified, for it is not found.

Please review the security related errors that could occur for this method in the Security Errors section.

updateAlertDefinitionPostedSpeed

The *updateAlertDefinitionPostedSpeed* method updates specified 'posted speed' alert definition identified by alert definition ID, which was returned when a new definition is created. `Id` is the only required parameter and other parameters listed in associated alert definition creation are optional in update. 'null' value (i.e. not specified) intends for no change. Empty string (i.e. '') would erase original string value. There could be error codes associated with optional parameters and please refer to associated alert definition creation section.

Request Parameters: UpdateAlertPostedSpeedRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
AppliesTo	`AppliesTo`	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
AllOrBetweenTimes	`AllOrBetweenTimes`	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
MaxTolerance	String	Maximum tolerance speed in mph over posted speed limit.
Id	String	Alert definition ID in string representation.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition. '-1' indicates operation failure.

The definitions of `UpdateAlertPostedSpeedRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030043	Invalid alert definition ID is specified, for it is not found.

Please review the security related errors that could occur for this method in the Security Errors section.

updateAlertDefinitionSensorActive

The *updateAlertDefinitionSensorActive* method updates specified 'sensor active' alert definition identified by alert definition ID, which was returned when a new definition is created. `Id` is the only required parameter and other parameters listed in associated alert definition creation are optional in update. 'null' value (i.e. not specified) intends for no change. Empty string (i.e. '') would erase original string value. There could be error codes associated with optional parameters and please refer to associated alert definition creation section.

Request Parameters: UpdateAlertSensorActiveRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
HardwareId	String	Mobile hardware ID of the mobile which is the target of this alert definition.
AllOrBetweenTimes	`AllOrBetweenTimes`	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
ActiveSensor	String	Name of sensor when it becomes active this alert definition would be triggered.
Id	String	Alert definition ID in string representation.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition. '-1' indicates operation failure.

The definitions of `UpdateAlertSensorActiveRequest` can be found at
http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of `CUDResponse` can be found at
http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030043	Invalid alert definition ID is specified, for it is not found.

Please review the security related errors that could occur for this method in the Security Errors section.

updateAlertDefinitionSensorInactive

The *updateAlertDefinitionSensorInactive* method updates specified 'sensor inactive' alert definition identified by alert definition ID, which was returned when a new definition is created. `Id` is the only required parameter and other parameters listed in associated alert definition creation are optional in update. 'null' value (i.e. not specified) intends for no change. Empty string (i.e. '') would erase original string value. There could be error codes associated with optional parameters and please refer to associated alert definition creation section.

Request Parameters: UpdateAlertSensorInactiveRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
HardwareId	String	Mobile hardware ID of the mobile which is the target of this alert definition.
AllOrBetweenTimes	`AllOrBetweenTimes`	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
InactiveSensor	String	Name of sensor when it becomes inactive this alert definition would be triggered.

Id	String	Alert definition ID in string representation.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition. '-1' indicates operation failure.

The definitions of `UpdateAlertSensorInactiveRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030043	Invalid alert definition ID is specified, for it is not found.

Please review the security related errors that could occur for this method in the Security Errors section.

updateAlertDefinitionSensorActInact

The *updateAlertDefinitionSensorActInact* method updates specified 'sensor active/inactive' alert definition identified by alert definition ID, which was returned when a new definition is created. `Id` is the only required parameter and other parameters listed in associated alert definition creation are optional in update. 'null' value (i.e. not specified) intends for no change. Empty string (i.e. '') would erase original string value. There could be error codes associated with optional parameters and please refer to associated alert definition creation section.

Request Parameters: UpdateAlertSensorActInactRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
HardwareId	String	Mobile hardware ID of the mobile which is the target of this alert definition.

AllOrBetweenTimes	AllOrBetweenTimes	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
ActInactSensor	String	Name of sensor when it changes its state of active/inactive this alert definition would be triggered.
Id	String	Alert definition ID in string representation.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition. '-1' indicates operation failure.

The definitions of `UpdateAlertSensorInactiveRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030043	Invalid alert definition ID is specified, for it is not found.

Please review the security related errors that could occur for this method in the Security Errors section.

updateAlertDefinitionEnterZipCodes

The *updateAlertDefinitionEnterZipCodes* method updates specified 'enter zip codes' alert definition identified by alert definition ID, which was returned when a new definition is created. `Id` is the only required parameter and other parameters listed in associated alert definition creation are optional in update. 'null' value (i.e. not specified) intends for no change. Empty string (i.e. '') would erase original string value. There could be error codes associated with optional parameters and please refer to associated alert definition creation section.

Request Parameters: UpdateAlertEnterZipCodesRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	ActiveDays	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We',

		'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
AppliesTo	`AppliesTo`	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
AllOrBetweenTimes	`AllOrBetweenTimes`	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
EnterZipCode	String	
Id	String	Alert definition ID in string representation.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition. '-1' indicates operation failure.

The definitions of `UpdateAlertEnterZipCodesRequest` can be found at
http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of `CUDResponse` can be found at
http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030043	Invalid alert definition ID is specified, for it is not found.

Please review the security related errors that could occur for this method in the Security Errors section.

updateAlertDefinitionExitZipCodes

The *updateAlertDefinitionExitZipCodes* method updates specified 'exit zip codes' alert definition identified by alert definition ID, which was returned when a new definition is created. `Id` is the only required parameter and other parameters listed in associated alert definition creation are optional in update. 'null' value (i.e. not specified) intends for no change. Empty string (i.e. '') would erase original string value. There could be error codes associated with optional parameters and please refer to associated alert definition creation section.

Request Parameters: UpdateAlertExitZipCodesRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the

		user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
AppliesTo	`AppliesTo`	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
AllOrBetweenTimes	`AllOrBetweenTimes`	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
ExitZipCode	String	
Id	String	Alert definition ID in string representation.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition. '-1' indicates operation failure.

The definitions of `UpdateAlertExitZipCodesRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030043	Invalid alert definition ID is specified, for it is not found.

Please review the security related errors that could occur for this method in the Security Errors section.

updateAlertDefinitionIdle

The *updateAlertDefinitionIdle* method updates specified 'idle' alert definition identified by alert definition ID, which was returned when a new definition is created. `Id` is the only required parameter and other parameters listed in associated alert definition creation are optional in update. 'null' value (i.e. not specified) intends for no change. Empty string (i.e. '') would erase

original string value. There could be error codes associated with optional parameters and please refer to associated alert definition creation section.

Request Parameters: UpdateAlertIdleRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
AppliesTo	`AppliesTo`	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
AllOrBetweenTimes	`AllOrBetweenTimes`	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
MaxIdleTime	String	Maximum minutes of idle before alert event is triggered. It should be at least 10 minutes.
Id	String	Alert definition ID in string representation.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition. '-1' indicates operation failure.

The definitions of UpdateAlertIdleRequest can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of CUDResponse can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030043	Invalid alert definition ID is specified, for it is not found.

Please review the security related errors that could occur for this method in the Security Errors section.

updateAlertDefinitionHighTemperature

The *updateAlertDefinitionHighTemperature* method updates specified 'high temperature' alert definition identified by alert definition ID, which was returned when a new definition is created. `Id` is the only required parameter and other parameters listed in associated alert definition creation are optional in update. 'null' value (i.e. not specified) intends for no change. Empty string (i.e. '') would erase original string value. There could be error codes associated with optional parameters and please refer to associated alert definition creation section.

Request Parameters: UpdateAlertHighTemperatureRequest

Name	Data Type	Comments
Name	String	Alert definition name. It has to be unique within the user account of specified user ID.
Enabled	String	'true' or 'false' should be specified to turn on or off alert event generation by this alert definition.
ActiveDays	`ActiveDays`	Use one and only one parameter between String or CustomDays type. CustomDays contains a list of two-character day symbols including 'Su', 'Mo', 'Tu', 'We', 'Th', 'Fr' and 'Sa'. Possible values for String parameter include '7daysPerWeek', 'Weekdays', and 'Weekends'.
Emails	StringList	A list of string representations of email-address.
UserId	String	String representation of 'long' value identifying a user account.
AppliesTo	`AppliesTo`	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
AllOrBetweenTimes	`AllOrBetweenTimes`	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
MaxTemperature	String	Maximum degrees, in Fahrenheit, in string representation.
Id	String	Alert definition ID in string representation.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition. '-1' indicates operation failure.

The definitions of `UpdateAlertHighTemperatureRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030043	Invalid alert definition ID is specified, for it is not found.

Please review the security related errors that could occur for this method in the <u>Security Errors</u> section.

deleteAlertDefinition

The *deleteAlertDefinition* method deletes specified alert definition identified by alert definition ID, which was returned when a new definition is created. `Id` is the only parameter and required.

Request Parameters: DeleteAlertRequest

Name	Data Type	Comments
Id	String	Alert definition ID in string representation.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this alert definition. '-1' indicates operation failure.

The definitions of `DeleteAlertRequest` can be found at <u>http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd</u>.

The definitions of `CUDResponse` can be found at <u>http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd</u>.

Error Codes

Code	Message
030043	Invalid alert definition ID is specified, for it is not found.

Please review the security related errors that could occur for this method in the <u>Security Errors</u> section.

getMobilesWithSensors

The *getMobilesWithSensors* method retrieves all mobiles with sensors information. This information would help on alert definitions related to *createAlertDefinitionSensorActive*, *createAlertDefinitionSensorInactive*, *createAlertDefinitionSensorActInact*.

Request Parameters: GetMobilesWithSensorsRequest

Name	Data Type	Comments
MaxResults	Int	Max number of records returned should be between 1 and 1000 inclusive.

Response Parameters: GetMobilesWithSensorsResposne

Name	Data Type	Comments
List	Collection<`MobileWithSensors`>	Collection of mobile data with sensors.

The definitions of `GetMobilesWithSensorsRequest` and `GetMobilesWithSensorsResposne` can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

Error Codes

Code	Message

Please review the security related errors that could occur for this method in the Security Errors section.

getAlertDefinitionsByUserId

The *getAlertDefinitionsByUserId* method retrieves all alert definitions created under specified UserId account. All different kinds of alert definitions would be listed.

Request Parameters: GetAlertDefinitionsByUserId

Name	Data Type	Comments
MaxResults	Int	Max number of records returned should be between 1 and 1000 inclusive.
UserId	String	User ID in string representation. One or more of these elements can exist.

Response Parameters: GetAlertDefinitionsResposne

Name	Data Type	Comments
List	`AlertDefinitionBrief`	Alert definition name. Zero or more of these elements can exist.

The definitions of `GetAlertDefinitionsByUserId` and `GetAlertDefinitionsResposne` can be found at http://services.discretewireless.com/v2009_2/xsd/AlertManagerV2.xsd.

Error Codes

Code	Message
030043	Invalid alert definition ID is specified, for it is not found.

Please review the security related errors that could occur for this method in the Security Errors section.

RouteManagerV1

Route Manager Version 1 Web Service offers creation, modification, deletion and listing of routes. You can use Route Manager Version 1 Web Service to create/ update a route with specified 'route points' via geo-coordinate, street address, mobile hardware ID, track ID, or location ID. You could also list them all or some by specified route name string.

Service Location

`http://services.discretewireless.com/v2009_2/RouteManagerV1`
(HTTP GET is disabled for security reasons on service URIs.)

WSDL Location

http://services.discretewireless.com/v2009_2/RouteManagerV1.wsdl

Methods

- **createRoute**
- **updateRoute**
- **deleteRoute**
- **getAllRoutes**
- **getRoutesByNameContains**

createRoute

The *createRoute* method creates a route with specified route name (required for creation) and optional `UtcExpirationDate` and `StopList`. The `StopList` is an expandable list that is defined by `WSRoute`s.

Request Parameters: CreateRouteRequest

Name	Data Type	Comments
Name	String	Required. A unique string that identifies a new route.
ExpirationDate	DateTime	Optional.
RoutePoints	WSStopList	Optional. A list made up of WSStopList objects.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this route. '-1' indicates operation failure.

The definitions of `CreateRouteRequest` and `WSRoute` can be found at
http://services.discretewireless.com/v2009_2/xsd/RouteManagerV1.xsd.

The definitions of `CUDResponse` can be found at
http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030061	Invalid track ID is specified, for it is not found.
030062	Invalid route ID is specified, for it is not found.
030063	Invalid route name. It should be a string of length between 1 and 48 characters.

Please review the security related errors that could occur for this method in the Security Errors section.

updateRoute

The *updateRoute* method updates a route with optional parameters. You should only enter parameters that need to be updated, except `StopList`. The `StopList` has to be updated as a unit if some 'routepoints' are to be updated.

Request Parameters: UpdateRouteRequest

Name	Data Type	Comments
ID	String	Required. Route system ID that identified a route.
Name	String	Optional. A unique string that identifies a new route.
ExpirationDate	DateTime	Optional.
RoutePoints	`WSStopList`	Optional. A list made up of WSStopList object.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this route. '-1' indicates operation failure.

The definitions of `UpdateRouteRequest` and `WSRoute` can be found at http://services.discretewireless.com/v2009_2/xsd/RouteManagerV1.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030061	Invalid track ID is specified, for it is not found.
030062	Invalid route ID is specified, for it is not found.
030063	Invalid route name. It should be a string of length between 1 and 48 characters.

Please review the security related errors that could occur for this method in the Security Errors section.

deleteRoute

The *deleteRoute* method deletes a route identified by route system ID.

Request Parameters: DeleteRouteRequest

Name	Data Type	Comments
ID	String	Required. Route system ID that identified a route.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this route. '-1' indicates operation failure.

The definitions of `DeleteRouteRequest` can be found at http://services.discretewireless.com/v2009_2/xsd/RouteManagerV1.xsd.

The definitions of `CUDResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030062	Invalid route ID is specified, for it is not found.

Please review the security related errors that could occur for this method in the Security Errors section.

getAllRoutes

The *getAllRoutes* method retrieves all routes that are associated with the account of the specified AuthToken. The returned list is sorted in ascending order of route names.

Request Parameters: GetAllRoutesRequest

Name	Data Type	Comments
MaxResults	int	Optional. Max number of routes should be returned. It should be an integer between 1 and 1000.

Response Parameters: GetRoutesResponse

Name	Data Type	Comments
Route	WSRouteWithIdDetailed	Zero or more of these may occur.

The definitions of `GetAllRoutesRequest`, `GetRoutesResponse` and `WSRouteWithIdDetailed` can be found at http://services.discretewireless.com/v2009_2/xsd/RouteManagerV1.xsd.

Error Codes

Code	Message

Please review the security related errors that could occur for this method in the Security Errors section.

getRoutesByNameContains

The *getRoutesByNameContains* method retrieves routes that has route name containing the specified string, and are associated with the account of specified AuthToken. The returned list is sorted in ascending order of route names.

Request Parameters: GetRoutesByNameContainsRequest

Name	Data Type	Comments
MaxResults	int	Optional. Max number of routes should be returned. It should be an integer between 1 and 1000.
NameContains	String	Required. String that is part of a route name.

Response Parameters: GetRoutesResponse

Name	Data Type	Comments
Routes	WSRouteWithIdDetailed	This element may repeat zero or more times.

The definitions of `GetRoutesByNameContainsRequest,` `GetRoutesResponse` and `WSRouteWithIdDetailed` can be found at http://services.discretewireless.com/v2009_2/xsd/RouteManagerV1.xsd.

Error Codes

Code	Message

Please review the security related errors that could occur for this method in the Security Errors section.

FleetManagerV1

Fleet Manager Version 1 Web Service offers creation, modification, deletion and listing of fleets. You can use Fleet Manager Version 1 Web Service to create/ update a fleet with specified list of mobiles and a list of users who would have access right of this fleet. You could also list them all or some by specified fleet name string.

Service Location
`http://services.discretewireless.com/v2009_2/FleetManagerV1`
(HTTP GET is disabled for security reasons on service URIs.)

WSDL Location
http://services.discretewireless.com/v2009_2/FleetManagerV1.wsdl

Methods
- **createFleet**
- **updateFleet**
- **deleteFleet**
- **findAllFleets**
- **findFleetsByNameContains**
- **getFleetById**
- **getFleetByName**

createFleet

The *createFleet* method creates a fleet with specified fleet name (required for creation), `MapColor,` `UserAccessList` and `MobileAssignment.` The `UserAccessList` and `MobileAssignment` are expandable lists.

Request Parameters: CreateFleetRequest

Name	Data Type	Comments
Name	String	Required. A unique string that identifies this fleet.
MapColor	String	Optional. Six hexadecimal characters representing a map color. See Enumerations section for list of acceptable colors. Defaults to white/no color if not specified.
UserAccessList	StringList	Optional. A list made up of entries of user ID, which has access to this fleet.
MobileAssignment	StringList	Required. A list made up of entries of mobile hardware ID. There should be at least one entry.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this fleet. '-1' indicates operation failure.

The definitions of CreateFleetRequest can be found at
http://services.discretewireless.com/v2009_2/xsd/FleetManagerV1.xsd.

The definitions of StringList can be found at
http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

The definitions of CUDResponse can be found at
http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030066	Invalid fleet name. Please provide a unique fleet name.
030067	There should be at least one mobile in a fleet.
030068	Invalid hexadecimal string for color specification.

updateFleet

The *updateFleet* method updates a fleet by specified fleet system ID with updated value for fleet name, `MapColor`, `UserAccessList` and/or `MobileAssignment`. If new `UserAccessList` and/ or `MobileAssignment` specified, they would override original ones.

Request Parameters: UpdateFleetRequest

Name	Data Type	Comments
Id	String	String representation of 'long' value identifying this fleet.
Name	String	Optional. A unique string that identifies this fleet.
MapColor	String	Optional. Six hexadecimal characters representing a map color. See Enumerations section for list of acceptable colors. Defaults to white/no color if not specified.
UserAccessList	StringList	Optional. A list made up of entries of user ID, which has access to this fleet.
MobileAssignment	StringList	Optional. A list made up of entries of mobile hardware ID. There should be at least one entry, if the list is specified.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this fleet. '-1' indicates operation failure.

The definitions of UpdateFleetRequest can be found at
http://services.discretewireless.com/v2009_2/xsd/FleetManagerV1.xsd.

The definitions of StringList can be found at
http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

The definitions of CUDResponse can be found at
http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030045	Invalid fleet ID is specified, for it is not found.
030066	Invalid fleet name. Please provide a unique fleet name.
030067	There should be at least one mobile in a fleet.
030068	Invalid hexadecimal string for color specification.

deleteFleet

The *deleteFleet* method deletes a fleet associated with the specified fleet system ID.

Request Parameters: DeleteFleetRequest

Name	Data Type	Comments
Id	String	String representation of 'long' value identifying this fleet.

Response Parameters: CUDResponse

Name	Data Type	Comments
Result	String	String representation of 'long' value identifying this fleet. '-1' indicates operation failure.

The definitions of `DeleteFleetRequest` can be found at
http://services.discretewireless.com/v2009_2/xsd/FleetManagerV1.xsd.

The definitions of `CUDResponse` can be found at
http://services.discretewireless.com/v2009_2/xsd/DW_JWS_DataV1.xsd.

Error Codes

Code	Message
030045	Invalid fleet ID is specified, for it is not found.

findAllFleets

The *findAllFleets* method retrieves all fleets in alphabetical order of fleet names, up the optional 'MaxResult' number of fleets.

Request Parameters: FindAllFleetsRequest

Name	Data Type	Comments
MaxResults	int	Optional. Max number of routes should be returned. It should be an integer between 1 and 1000.

Response Parameters: FindFleetsResponse

Name	Data Type	Comments
Fleet	Fleet	This element man occur zero or more times.

The definitions of `FindAllFleetsRequest` and `FindFleetsResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/FleetManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult' integer (should be an integer between 1 and 1000 inclusive).

findFleetsByNameContains

The *findFleetsByNameContains* method retrieves fleets with name containing specified string in alphabetical order of fleet names up the optional 'MaxResult' number of fleets.

Request Parameters: FindFleetsByNameContainsRequest

Name	Data Type	Comments
MaxResults	int	Optional. Max number of routes should be returned. It should be an integer between 1 and 1000.
FleetNameContains	String	Required. A string that would be used as searching criteria of fleet name.

Response Parameters: FindFleetsResponse

Name	Data Type	Comments
Fleet	`Fleet`	This element man occur zero or more times.

The definitions of `FindFleetsByNameContainsRequest` and `FindFleetsResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/FleetManagerV1.xsd.

Error Codes

Code	Message
030009	Invalid 'MaxResult' integer (should be an integer between 1 and 1000 inclusive).

getFleetById

The *getFleetById* method retrieves detailed fleet information with specified ID.

Request Parameters: GetFleetByIdRequest

Name	Data Type	Comments
FleetId	String	Required. String representation of 'long' value identifying a fleet.

Response Parameters: GetFleetResponse

Name	Data Type	Comments
Name	String	A unique name represents the fleet.
MapColor	String	Hexadecimal character string to represent fleet map color.
User	`User`	Zero or more. 'AccountUserWithId' is the schema element name

		for 'User' object. Please refer to FleetManagerV1.xsd and its associated XSD's.
Mobile	`MobileBrief`	One or more. 'MobileBrief' is the schema element name for 'Mobile' object. Please refer to FleetManagerV1.xsd and its associated XSD's.

The definitions of `FindFleetByIdRequest` and `GetFleetResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/FleetManagerV1.xsd.

Error Codes

Code	Message
030045	Invalid fleet ID is specified, for it is not found.

getFleetByName

The *getFleetByName* method retrieves detailed fleet information with specified fleet name.

Request Parameters: GetFleetByNameRequest

Name	Data Type	Comments
FleetName	String	Required. Unique name identifying a fleet.

Response Parameters: GetFleetResponse

Name	Data Type	Comments
Name	String	A unique name represents the fleet.
MapColor	String	Hexadecimal character string to represent fleet map color.
User	`User`	Zero or more. 'AccountUserWithId' is the schema element name for 'User' object. Please refer to FleetManagerV1.xsd and its associated XSD's.
Mobile	`MobileBrief`	One or more. 'MobileBrief' is the schema element name for 'Mobile' object. Please refer to FleetManagerV1.xsd and its associated XSD's.

The definitions of `FindFleetByNameRequest` and `GetFleetResponse` can be found at http://services.discretewireless.com/v2009_2/xsd/FleetManagerV1.xsd.

Error Codes

Code	Message
030055	Invalid fleet name is specified, for it is not found.

Security Error Codes

The following table outlines all of the security related errors that could occur across all methods.

Generic Security Error	900001	Security error code for all.
Login Failure	900002	The username and password supplied for authentication is not correct.
Invalid Token	900003	Authorization token doesn't exist. You must reauthenticate.
Expired Token	900004	The token provided has expired.
Over Usage Limit	900005	The usage limit for the web service method has been exceeded.
Service Unavailable	900006	The service is not available for consumption.
Access Denied	900007	Access has been denied to the service.

Complex Types

Complex Type: DWHeader

Name	Data Type	Comments
SenderInfo	SenderInfo	Information specific to the sender.

Complex Type: SenderInfo

Name	Data Type	Comments
ApplicationID	String	Application ID The max size of the Application ID is 50.
Credentials	Credentials	Contains the Authorization Token which authorizes a user to use web services for a 24 hour period.

Complex Type: Credentials

Name	Data Type	Comments
AuthToken	String	Is obtain from the *GetAuthenticationToken* method.

Complex Type: Address

Name	Data Type	Comments
Number	String	Number for the address.
Street	String	Street Name
City	String	Name of the city in which the address is located.
StateProvince	String	Name of the state or province in which the address is located.
Country	String	Name of the country in which the address is located
PostalCode	String	Zip code or postal code in which the address is located.

Complex Type: AlertEvent

Name	Data Type	Comments
Type	Int	System ID for the Alert Type.
DateTime	dateTime	Description of the Alert Type.
MobileUnitId	String	System Id, in string format, for a Mobile.
MobileName	String	Description of an Mobile.
TrackId	String	System Id, in string format, for a Track.
AlertId	String	System Id, in string format, for an Alert.
AlertType	Long	System Id for an AlertType.
AlertTypeDescription	String	Description of an AlertType.

Complex Type: AlertType

Name	Data Type	Comments
Type	Int	System ID for the Alert Type.
Description	String	Description of the Alert Type.

Complex Type: Point

Name	Data Type	Comments
x	double	Latitude
y	double	Longitude

Complex Type: Location for PointCandidate

Name	Data Type	Comments
Address	Address	Address of the location.
Description	String	Description of the location.
Point	Point	Latitude/Longitude of the location.

Complex Type: Location

Name	Data Type	Comments
Name	String	A string to identify a location.
CenterLat	double	The central latitude of the location.
CenterLon	double	The central longitude of the location.
UtcExpirationDate	DateTime	Optional expiration date for the
Id	String	System ID

Complex Type: TransactionDetail

Name	Data Type	Comments
TransactionID	String	A string to identify a Transaction.
Timestamp	DateTime	

Complex Type: Mobile

Name	Data Type	Comments
Name	String	The name of mobile unit

VIN	String	The mobile hardware Id.
Notes	String	Description
ActivationDateTime	String	System ID.
MapColor	String	Optional. Six hexadecimal characters representing a map color. 0000ff for blue, 7fffd4 for aquamarine, etc.
DeviceMan		is synonymous with the unit's phonenumber/hardwareid.
DeviceType	String	Mobile type.
Msisdn		
Id	String	System ID.

Complex Type: WSMobile

Name	Data Type	Comments
Name	String	The name of mobile unit
VIN	String	The mobile hardware Id.
Notes	String	Description
ActivationDateTime	String	System ID.
MapColor	String	Optional. Six hexadecimal characters representing a map color. 0000ff for blue, 7fffd4 for aquamarine, etc.
DeviceMan		is synonymous with the unit's phonenumber/hardwareid.
DeviceType	String	Mobile type.
Msisdn		
Id	String	System ID.
CurrentOdometer	Int	The calculated current Odometer based on the Tracks distances.
CurrentOdometerDateTime	DateTime	The last time the odometer was calculated.
CurrentEngineHours	Double	The number of hours the engine has run.
CurrentEngineHoursDateTime	DateTime	The last time the number of hours the engine has run was calculated.

Complex Type: Fleet

Name	Data Type	Comments
Id	String	System ID.
Name	String	The name of mobile unit
MapColor	String	Optional. Six hexadecimal characters representing a map color. 0000ff for blue, 7fffd4 for aquamarine, etc.

Complex Type: MobileWithLocation

Name	Data Type	Comments
Mobile	`Mobile`	System ID.
Location	`Location`(below)	The name of mobile unit

Distance	String	Optional. Six hexadecimal characters representing a map color. 0000ff for blue, 7fffd4 for aquamarine, etc.

Complex Type: Location for MobileWithLocation

Name	Data Type	Comments
Address	`Address`	Address of the location.
Description	String	Description of the location.
Point	`Point`	Latitude/Longitude of the location.

Complex Type: SensorEvent

Name	Data Type	Comments
SensorEvent	String	Description of the event.
Date	dateTime	Date when event occurred.
Mobile	`Mobile`	Mobile on which the event occurred.
Address	`PointCandidate`	Location where the event occurred.

Complex Type: MileageByState

Name	Data Type	Comments
MobileId	String	Mobile hardware ID.
MobileName	String	Mobile name.
Date	DateTime	Date and time when this event occurred.
State	String	State of this 'MileageByState' object. Note that this response includes a list of more than one 'MileageByState', if this mobile travels more than one state.
Mileage	double	Total mileage travel for specified date within this state.

Complex Type: ActiveDays

Name	Data Type	Comments
DayChoices	`ActiveDayChoices`	Mobile hardware ID.
CustomDays	`CustomDays`	Mobile name.

Complex Type: AppliesTo (1 of the 3 elements listed in table)

Name	Data Type	Comments
AllMobiles	AllMobiles	The only option in the enumeration is AllMobiles.
SelectedMobiles	StringList	List of Mobile Ids
SelectedFleets	StringList	List of Fleet Ids

Complex Type: AllOrBetweenTimes (1 of the 2 elements listed in table)

Name	Data Type	Comments
TwentyFourHoursPerDay	TwentyFourHoursPerDay	The only option in the enumeration is 24hoursPerDay.
BetweenTimes	BetweenTimes	Starting and ending hours

Complex Type: BetweenTimes (1 of the 2 elements listed in table)

Name	Data Type	Comments
TimeZone	String	String representation of time zone.
UseDaylightSavings	String	'true' or 'false'.
StartTime	HourChoices	Starting hour.
EndTime	HourChoices	Ending hour.

Complex Type: LocalTime

Name	Data Type	Comments
TimeZone	String	String representation of time zone.
UseDaylightSavings	String	'true' or 'false'.

Complex Type: BeforeAfterTimes

Name	Data Type	Comments
Before	HourChoices	Starting hour.
After	HourChoices	Ending hour.

Complex Type: MobilesWithSensors

Name	Data Type	Comments
Name	String	Mobile name.
HardwareId	String	Mobile hardware ID.
DeviceType	String	Mobile type.
Id	String	Mobile's system ID.
Sensor	List<String>	List of Sensor names. It could be used to set up alert definitions. There could be multiple sensors equipped with a mobile.

Complex Type: ActiveTimes (1 of the 3 elements listed in table)

Name	Data Type	Comments
AllOrBetweenTimes	AllOrBetweenTimes	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
BeforeTime	BeforeTime	Time before which an activity should occur,
BeforeAfterTimes	AllOrBetweenTimes	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.

Complex Type: BeforeTime

Name	Data Type	Comments
TimeZone	String	String representation of time zone.
UseDaylightSavings	String	'true' or 'false'.
Before	HourChoices	

Complex Type: AlertDefinitionBrief

Name	Data Type	Comments
Name	String	Alert definition name.
Enabled	String	Whether an alert definition is turned on or off.
Type	String	'Enter Zip Code', 'Arrive Location', etc.
ParamName	String	'Zip Codes', 'Location', 'Sensor', etc. It is related to 'Type' parameter.
ParamValue	List<String>	There could be one or more parameters based on 'Type' parameter. The meaning of this value is displayed by 'ParamName'.
AppliesTo	AppliesTo	One of three options should be used to indicate target of this alert definition. The options are: 'AllMobiles', 'SelectedMobiles', and 'SelectedFleets'.
Emails	List<String>	Email list.
ActiveTimes	ActiveTimes	One of two members should be used to indicate hours of a day when this alert definition is active. The options are: 'TwentyFourHoursPerDay' and 'Between'.
ActiveDays	ActiveDays	One of two members, 'DaysChoices', 'CustomDays', would be used to indicate days during a week when this alert definition is active.
Id	String	Alert definition system ID

Complex Type: WSStopList

Name	Data Type	Comments
RoutePoint	Collection<WSRoutePoint>	Alert definition name.

Complex Type: WSRoutePoint

Name	Data Type	Comments
Coordinate	Point	Optional. Lat/Long of the Stop
Address	Address	Optional. Address of the Stop.
LocationId	String	Optional. System Id of the Location.
MobileHwId	String	Optional. Mobile hardware ID.

Complex Type: WSRouteWithIdDetailed

Name	Data Type	Comments
ID	String	Required. Route system ID that identified a route.
Name	String	A unique string that identifies a new route.
ExpirationDate	DateTime	Optional.
RoutePoints	WSStopListDetailed	Optional. A list made up of WSStopListDetailed object.

Complex Type: WSStopListDetailed

Name	Data Type	Comments
RoutePoint	WSRoutePointDetailed	This element may repeat zero or more times.

Complex Type: WSRoutePointDetailed

Name	Data Type	Comments
Coordinate	Point	Optional. Lat/Long of the Route Stop
Address	String	Optional. Address of the Route Stop.
Location	Location	Optional. Location of the Route Stop
Mobile	MobileBrief	Optional. Mobile the Route Stop is associated with.
Track	Track	Optional. Track for the Route Stop.

Complex Type: Track

Name	Data Type	Comments
Id	String	Please enter empty string '' for this field.
TimeStamp	DateTime	UTC satellite datetime stamp.
HardwareId	String	The mobile hardware ID that this track is related to.
MobileName	String	This mobile name.
Lat	double	Latitude.
Lon	double	Longitude.
Heading	short	Heading degree.
Speed	short	Speeding or not.
GPSLock	boolean	Having GPS signal or not.
Old	boolean	Old track or not (when mobile out of cell-phone signal, current track is submitted later and this flag is set to true).
Ping	boolean	Whether this track is generated in response to a ping request or not.
Motion	boolean	Moving or not.
Speeding	Boolean	Speeding or not.
Ignition	Boolean	Ignition on or not.
IgnitionStatus	String	String representation of ignition on or off.
Street	String	Street number and street name of this track.
City	String	City name of this track.
StateProvince	String	State name of this track.
PostalCode	String	Postal code of this track.
County	String	County name of this track.
Rssi	short	Cell-phone signal strength.
Sats	short	GPS satellite strength.
TimeZone	int	Number of minutes of the time-zone where the track is in.
Sensor1	boolean	Sensor 1 is on or off.
Sensor2	boolean	Sensor 2 is on or off.

Complex Type: TrackWithDistanceTraveled

Name	Data Type	Comments
Id	String	Please enter empty string '' for this field.
TimeStamp	DateTime	UTC satellite datetime stamp.
HardwareId	String	The mobile hardware ID that this track is related to.
MobileName	String	This mobile name.
Lat	double	Latitude.
Lon	double	Longitude.
Heading	short	Heading degree.
Speed	short	Speeding or not.
GPSLock	boolean	Having GPS signal or not.
Old	boolean	Old track or not (when mobile out of cell-phone signal, current track is submitted later and this flag is set to true).
Ping	boolean	Whether this track is generated in response to a ping request or not.
Motion	boolean	Moving or not.
Speeding	Boolean	Speeding or not.
Ignition	Boolean	Ignition on or not.
IgnitionStatus	String	String representation of ignition on or off.
Street	String	Street number and street name of this track.
City	String	City name of this track.
StateProvince	String	State name of this track.
PostalCode	String	Postal code of this track.
County	String	County name of this track.
Rssi	short	Cell-phone signal strength.
Sats	short	GPS satellite strength.
TimeZone	int	Number of minutes of the time-zone where the track is in.
Sensor1	boolean	Sensor 1 is on or off.
Sensor2	boolean	Sensor 2 is on or off.
DistanceTraveled	int	Distance traveled in tenths of a mile since the previous track i.e. if the value is 8 then the distance represented is 8/10ths of a mils traveled since the previous track.

Complex Type: TrackWithDistanceTraveled2

Name	Data Type	Comments
Id	String	Please enter empty string '' for this field.
TimeStamp	DateTime	UTC satellite datetime stamp.
HardwareId	String	The mobile hardware ID that this track is related to.
MobileName	String	This mobile name.
Lat	double	Latitude.
Lon	double	Longitude.
Heading	short	Heading degree.
Speed	short	Speeding or not.
GPSLock	boolean	Having GPS signal or not.
Old	boolean	Old track or not (when mobile out of cell-phone signal, current track is submitted later and this flag is set to true).
Ping	boolean	Whether this track is generated in response to a ping request or not.
Motion	boolean	Moving or not.
Speeding	Boolean	Speeding or not.
Ignition	Boolean	Ignition on or not.
IgnitionStatus	String	String representation of ignition on or off.
Street	String	Street number and street name of this track.
City	String	City name of this track.
StateProvince	String	State name of this track.
PostalCode	String	Postal code of this track.
County	String	County name of this track.
Rssi	short	Cell-phone signal strength.
Sats	short	GPS satellite strength.
TimeZone	int	Number of minutes of the time-zone where the track is in.
Sensor1	boolean	Sensor 1 is on or off.
Sensor2	boolean	Sensor 2 is on or off.
DistanceTraveled	int	Distance traveled in tenths of a mile since the previous track i.e. if the value is 8 then the distance represented is 8/10ths of a mils traveled since the previous track.
InsertedDate		UTC datetime stamp the track been received/inserted into database by Nextraq platform. This is an additional field compared to its parent type <*TrackWithDistanceTraveled*>.

Complex Type: DispatchJob

Name	Data Type	Comments
JobName	String	A string to identify a job
Mobile	Mobile	A complex type related to mobile unit
Location	Location	A complex type related to Location
MessageForDriver	String	Text message describe the job/content
ExtRef	String	External reference of this location
CreatedTime	DateTime	Date and time of the job when it was created
Status	String	Job status. Values include: "ASSIGNED", "PENDING", "EN ROUTE", "COMPLETED", "CANCELLED", "UNASSIGNED", "QUEUED", "ARRIVED", "STARTED", "REJECTED", "PAUSED"
LastComDate	DateTime	Date and time mobile communicated back last time. This should be considered with 'Status' field.
ETA	DateTime	Date and time of estimated time of arrival.
DeliveryStatus	String	Possible values include 'SENT', 'UNDELIVERABLE_GARMIN', 'UNDELIVERABLE_NETWORK', 'FIRST_RETRY', 'DELIVERED'

*Note: The location Id of the Location returned with the job relates to location used when creating the job. If an extRefId was used, it will be returned. If a previously created location was used to create the job, then it will be returned if it exists. If any other type of location was used to create the job (ex: Address or Point) then -1 will be returned in the location Id field.

Complex Type: DispatchJobWithId

Name	Data Type	Comments
JobName	String	A string to identify a job
Mobile	Mobile	A complex type related to mobile unit
Location	Location	A complex type related to Location
MessageForDriver	String	Text message describe the job/content
ExtRef	String	External reference of this location
CreatedTime	DateTime	Date and time of the job when it was created
Status	String	Job status
LastComDate	DateTime	Date and time mobile communicated back last time. This should be considered with 'Status' field.
ETA	DateTime	Date and time of estimated time of arrival.
DeliveryStatus	String	Possible values include 'SENT', 'UNDELIVERABLE_GARMIN', 'UNDELIVERABLE_NETWORK', 'FIRST_RETRY', 'DELIVERED'
JobId	String	System ID.

*Note: The location Id of the Location returned with the job relates to location used when creating the job. If an extRefId was used, it will be returned. If a previously created location was used to create the job, then it will be returned if it exists. If any other type of location was used to create the job (ex: Address or Point) then -1 will be returned in the location Id field.

Complex Type: StatusAndReceiveTime

Name	Data Type	Comments
ReceivedTime	dateTime	Identifies when a status is received.
Status	String	Status of a Job

Complex Type: InVehicleMessage

Name	Data Type	Comments
From	String	User name or 'Web Service' who initiated this message
To	String	The name of mobile unit
Message	String	Message content
Type	Type	One of 'Ok', 'Yes/No', or a text string
Reply	String	Response from mobile unit to this message. It could be an empty string (i.e. no response), 'Ok', 'Yes', or 'No'.
SentDate	DateTime	Date and time when this message was sent
ReceivedDate	DateTime	Date and time when a reply was received
DeliveryStatus	String	Possible values include 'SENT', 'UNDELIVERABLE_GARMIN', 'UNDELIVERABLE_NETWORK', 'FIRST_RETRY', 'DELIVERED'

Complex Type: AccountUser

Name	Data Type	Comments
FirstName	String	First name.
LastName	String	Last name.
EmailAddress	String	Email-address.
UserName	String	User name to log into NexTraq system.
TimeZone	String	String representation of time zone.
UseDaylightSavings	String	'true' or 'false'.
ViewAllFleet	String	'true' or 'false' to be able to.
ViewUnassignedMobiles	String	'true' or 'false' to be able to.
Id	String	System ID.
IsAdministrator	String	'true' or 'false'.

Complex Type: DriverPlusMobile

Name	Data Type	Comments
FirstName	String	First name.
LastName	String	Last name.
EmailAddress	String	Email-address.
PhoneNumber	String	Driver phone number.
DriverId	String	System ID.
AssignedMobile	MobileBrief	Mobile Object.

Complex Type: DriverPlusAttributes

Name	Data Type	Comments

FirstName	String	First name.
LastName	String	Last name.
EmailAddress	String	Email-address.
PhoneNumber	String	Driver phone number.
DriverId	String	System ID.
AdittionalAttributes	`AdditionalAttributes`	Additional attributes used to describe the driver.

Current AdditionalAttributes include the following key/value pairs for DriverPlusAttributes.

Key	Value	Description
keyFobId	String	Key fob id assigned to the driver
stateDl	String	State driver's license
otherDl	String	Other driver's license

Complex Type: AdditionalAttributes

Name	Data Type	Comments
Key	String	Key used to reference a given value
IntValue	Int	Any integer value
DoubleValue	Double	Any double value
BooleanValue	Boolean	Any Boolean value
LongValue	Long	Any long value
StringValue	`String`	Any string value
DateTimeValue	Datetime	Any datatime value.
ObjectValue	anyType*	Populated with complex data types.

*By setting the data type of ObjectValue to anyType, we are stating that the field can be populated with any object. This object need to be cast to it's actual type. When used, this type will be defined within our documentation, as well as within the object itself.

The AdditionalAttributes object will be populated with a predefined key that maps to a specific value. Only one value type will be set for any given key.

Complex Type: MobilePlusAttributes

Name	Data Type	Comments
Mobile	`Mobile`	Mobile information
AdittionalAttributes	`AdditionalAttributes`	Additional attributes used to describe the mobile.

Current AdditionalAttributes include the following key/value pairs for MobilePlusAttributes.

Key	Value	Description
mobileFieldName	String	Returns the value of the given mobile field. Each mobile field will be returned with each field being the key for the particular value.

currentOdometer	Int	Mobile's current odometer reading
currentOdometerDateTime	dateTime	Date the mobile's odometer was last reset.
currentEngineHours	Int	Mobile's current engine hours
currentEngineHoursDateTime	dateTime	Date the mobile's engine hours were last reset.

Complex Type: LocationPlusAttributes

Name	Data Type	Comments
locationId	String	Id associated with the location
AdittionalAttributes	AdditionalAttributes	Additional attributes used to describe the Location.

Current AdditionalAttributes include the following key/value pairs for LocationPlusAttributes

Key	Comments
PostalCode	Used to specifiy the 'StringValue' additional attribute as the postal code to be used if the zip field is not specified in the request.

Complex Type: JobPlusAttributes

Name	Data Type	Comments
JobId	String	Id associated with the job
AdittionalAttributes	AdditionalAttributes	Additional attributes used to describe the job.

Current AdditionalAttributes include the following key/value pairs for JobPlusAttributes

Key	Comments
isArchived	Specifies whether a job is archied or not. Posible values are True or False
driverId	Driver id assigned to the mobile that is assigned to the job. Value will be 0 if no driver is assigned.
userId	User Id that is assigned to the job. Value will be 0 if no user is assigned.
History	Changes that have occurred during the job. Object will include status changes and any added notes.

Complex Type: JobHistory

Name	Data Type	Comments
JobChangeLog	List<JobChangeLog>	A list of job change logs.

Complex Type: JobChangeLog

Name	Data Type	Comments

UserName	String	User name of the user that created the change.
Note	String	Note text.
CreatedDate	dateTime	Date the change occurred.
Point	Point	Lattitude and Longitude of where the change occurred (not applicable in all situations).
OldStatus	String	Previous Job status
NewStatus	String	New Job status

Complex Type: MobileBrief

Name	Data Type	Comments
Name	String	The name of mobile unit
HardwareId	String	The mobile hardware Id.
DeviceType	String	Mobile type.
Id	String	System ID.

Complex Type: MobileFieldType

Name	Data Type	Comments
Name	String	Mobile field name. It has to be non-blank and unique.
ListDisplay	boolean	
Id	String	System ID.

Complex Type: FilterCriteria

Name	Data Type	Comments
FilterKey	String	Key used to identify field to apply filter.
SearchTerm	String	Value used to filter the result set.

Complex Type: LocationGroup

Name	Data Type	Comments
Name	String	Name of Locaton group, unique and non-blank.
Locations	Locations	List of Location identifiers assigned to the group

Complex Type: LocationGroupWithId

Name	Data Type	Comments
Id	String	Key used to identify Location group.
Name	String	Name of Locaton group, unique and non-blank.
Locations	Locations	List of Location identifiers assigned to the group

Complex Type: Locations (Location Group)

Name	Data Type	Comments
Id	String	Key used to identify a Location assigned to a location group.

Complex Type: GForce

Name	Data Type	Comments
X	double	Forward/reverse G-force component for vehicle. Positive values indicate acceleration; negative values deceleration
Y	double	Left/right lateral acceleration/deceleration G-force component for vehicle. Positive values indicate acceleration; negative values deceleration
Z	double	Up/down vertical acceleration/deceleration G-force component for vehicle. Positive values indicate acceleration; negative values deceleration
Sensitivity	double	Accelerometer sensitivity

Complex Type: AccelerometerEvent

Name	Data Type	Comments
Timestamp	dateTime	Event action date.
MobileId	string	Mobile unit hardware ID.
Vin	string	Vehicle identification number.
Type	string	Accelerometer event action type ("Accel", "Decel", "Lateral").
Point	Point	
Address	Address	
TzOffset	int	Local time zone offset from UTC in minutes.
GForce	GForce	Forward/reverse G-force for vehicle. Positive values indicate acceleration; negative values deceleration.
Speed	short	Vehicle speed at time of event.
Heading	short	Vehicle compass heading in degrees at time of event.

Enumerations

ActiveDayChoices values are: `7daysPerWeek, Weekdays, Weekends`

CustomDays values are: `Su, Mo, Tu, We, Th, Fr, Sa`

HourChoices values are: `12am, 1am, 2am, 3am, 4am, 5am, 6am, 7am, 8am, 9am, 10am, 11am, 12pm, 1pm, 2pm, 3pm, 4pm, 5pm, 6pm, 7pm, 8pm, 9pm, 10pm, 11pm`

Map and Fleet color hex values are taken from the UI:
`7FFFD4, 000000, 0000FF, 8A2BE2, A52A2A, DEB887, 7FFF00, 6495ED, DC143C, 00008B, 008B8B, B8860B, 006400, A9A9A9, BDB76B, 8B008B, 556B2F, FF8C00, 9932CC, 8B0000, E9967A, 9400D3, FF1493, 696969, B22222, 228B22, FF00FF, FFD700, 008000, ADFF2F, 4B0082, ADD8E6, F08080, 90EE90, FFB6C1, FFA07A, 20B2AA, 87CEFA, B0C4DE, 00FF00, 800000, 0000CD, 191970, 000080, FFA500, FF4500, DA70D6, 98FB98, FFC0CB, DDA0DD, 800080, FF0000, 4169E1, 2E8B57, C0C0C0, 87CEEB, D2B48C, 008080, FF6347, FFFF00, 9ACD32`

Code Samples

A sample application to access the web services can be obtained from the following location:

http://services.nextraq.com/resources/sample-client.zip

Tips

- Try using compression of content where possible. This can be enabled on a .NET client via the `EnableDecompression` property of the service object.

Troubleshooting

Contact NexTraq support at webserviceshelp@nextraq.com.

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NexTraq Web Services