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Revision History

Date	Version	Description	Author
2013-Dec-16	1.0	Initial Draft Version	
2015-May-06	1.1	ExtendedData details	MDG
2015-May-08	1.2	Added Explanations of Event Log Type	MDG
2015-June-26	1.3	URL Modifications	DSA

Overview

This document describes the functionality available from the DeLorme inReach [Keyhole Markup Language \(KML\)](#) feeds. KML feeds may be accessed from the explore.delorme.com website using several different URLs depending on the user who will be using the feed and the information desired. The inReach KML feeds are designed to be polled for new point information at a frequency desired by the consumer; there is no ability for the DeLorme server to push KML to another server. These feeds are primarily intended to allow inReach data to be displayed on other map portals.



Authentication

For any URLs requiring authentication, web browsers will prompt the user to enter a username and password. When connecting to the Direct URLs using software, the user provides the username and password details using [basic HTTP authentication](#). Always connect to these URLs using SSL (HTTPS) connections to avoid passing authentication details in plain text.

Loader URLs

For convenience, 'Loader' URLs are provided that generate KML files that are suitable for loading directly into Google Earth and are preconfigured with the appropriate element to allow Google Earth to periodically query for new data.

MapShare

<https://share.delorme.com/feed/ShareLoader/<MapShare Identifier>>

- <MapShare Identifier> should be replaced with the appropriate identifier from the explore.delorme.com website – see the Social tab for more details.
- Refers to the MapShare Direct URL.

ECC

<https://explore.delorme.com/ECC/Chat/KmlFeed/300200000000000>

- Used in the Emergency Call Center (ECC) application to enable export and update of the data for an inReach user in an emergency.
- Refers to the ECC Direct URL



Direct URLs

These URLs provide direct access to the data for one or more devices; the KML that is generated does not contain any elements that would allow Google Earth (or other applications) to query the server for additional data.

MapShare

<https://share.delorme.com/feed/share/<MapShare Identifier>>

- For inReach users, allowing users to access their own accounts. By default only the most recent point is shown.
- Only exports points that meet the MapShare settings for the user.
- If the MapShare settings indicate a username or password, those must be provided using Basic HTTP Authentication.

ECC

<https://explore.delorme.com/feed/ecc?imei=300200000000000>

- By default the last seven days of information is shown.
- Requires an ECC enabled username and password (the tenant username and password for enterprise accounts that have disabled GEOS).
- One or more IMEIs is required and specified by the imei parameter.

Query Parameters

All of the direct URLs support parameters to change the data that will be returned in the KML response. The available parameters are:

Parameter	Description	Example
d1	Start date for the query – in UTC time	https://share.delorme.com/feed/share/JoeTester?d1=2012-10-16T06:19Z
d2	End date for the query – in UTC time	https://share.delorme.com/feed/share/JoeTester?d1=2012-10-16T06:19Z&d2=2012-10-18T23:59Z
imei	Comma separated list of IMEIs to show	https://share.delorme.com/feed/tenant/2001?imei=300200000000000,300200000000001

KML ExtendedData Fields

KML placemarks contain a name (label) and a UTC timestamp (in ISO 8601 format). Additionally, the placemark contains “ExtendedData”. The following table describes those data elements as of the date of this document.

Name	Description	Example
Id	DeLorme internal ID for the event	868926
Time UTC	US-formatted version of the event timestamp as UTC.	5/2/2015 6:01:30 AM



Time	US-formatted version of the event timestamp in the preferred timezone of the account owner.	5/2/2015 9:01:30 AM
Name	First and last name of the user assigned to the device that sent the message.	Joe User
Map Display Name	Map Display Name for this user. This field is editable by the user in their Account or Settings page.	Joe the inReach User
Device Type	The hardware type of the device in use. Recent types are: DeLorme D1, InReach Zigbee, InReach Bluetooth, inReach SE, and inReach 2.5. The D1 is known as model 1.0, the Zigbee and Bluetooth are model 1.5, and most 2.5 devices are the Explorer model.	inReach 2.5
IMEI	The IMEI of the device sending the message.	999999999999999
Incident Id	***The emergency incident, if any.	1234
Latitude	Latitude in degrees WGS84, where negative is south of the equator.	43.790485
Longitude	Longitude in degrees WGS84, where negative is west of the Prime Meridian.	-70.192015
Elevation	Value is always meters from Mean Sea Level.	120.39 m from MSL
Velocity	Ground speed of the device. Value is always in kilometers per hour.	1.0 km/h
Course	Approximate direction of travel of the device, always in true degrees. Value is accurate to one of sixteen compass points only.	292.50 ° True
Valid GPS Fix	True if the device's GPS unit has a fix. This is not a measure of quality of the GPS fix. However, it is unlikely that any point will be provided without a valid GPS fix.	True
In Emergency	***True if the device is in SOS state.	False
Text	Message text, if any, in Unicode.	Having a great time with my inReach!
Event	The event log type. See table below.	Tracking message received

*** Messages sent while a device is in SOS mode are omitted from KML feeds except for emergency response agencies under special arrangement.

Event Log Types

KML elements come from an event log, which records the type of event occurring at the DeLorme message gateway. The types of events which are relevant to device activity that appears in KML are listed in the table below. The most common messages appear at the top of the table. All events include a location being sent by the inReach device.

Type ID	Event Description	Explanation
17	Tracking message received	Device has sent a track point.
13	Text message received	Device has sent text.



30	Tracking interval received	Device has changed how often it sends track points.
38	Tracking turned on from device	Device has started tracking.
43	Text quick message received	Device has triggered a Preset message.
29	Tracking turned off from device	Device has stopped tracking.
52	Quick Text to MapShare received	Device has sent a Preset message and that includes MapShare as an addressee.
16	Location received	Device has responded to a Location Request.
46	Append MapShare to txt msg code received	Device has sent a message announcing the MapShare site.
45	Msg to shared map received	Device has sent a text message and that includes MapShare as an addressee.
6	Emergency canceled	Device is canceling SOS.
54	Test message received	Device has replied to a TEST.
1	Emergency initiated From device	Device is declaring an SOS.
4	Emergency confirmed	Device has received an acknowledgement from the emergency response system and is continuing in SOS.
18	Waypoint/navigation received	Device is sending a new/changed waypoint or route definition.
56	Waypoint/navigation stopped	Device has stopped following a route.
55	Waypoint/navigation started	Device has started following a route.
41	Reference point message received	Device has sent a Reference Point.

Documentation and Support

An up-to-date version of this document may always be found at this link:

<https://files.delorme.com/support/inreachwebdocs/KML%20Feeds.pdf>

General discussion and support of all DeLorme APIs can be found at our public forum for this purpose:

<http://forum.delorme.com/index.php?/forum/121-inreach-web-api/>

You will need to register (for free) to access the forum.