

User Information for the Vaisala Data Export Web Service

The first version of our web service is now available at <https://birice.vaisala.com:10080> and produces data in either the datex2 xml format or Vaisala Obs xml format.

Vaisala Observation data is provided at </export/vaisalaobs.xml>.

A unique username and password are required to access the service. These must be supplied via [basic access authentication](#).

The numerical identifiers of a region to which your account has access and a station within it must also be supplied. These should have been delivered to you separately from this document. Parameters are all passed via 'key=value' pairs in the url. A full list of parameters including examples and other notes are included below:

Parameters

Parameter	Example	Required?	Notes:
username	josephprice	mandatory	These are not related to existing IceNet/IceMan or RDS Advisor/Observer/Navigator accounts.
password	o9F23kqM	mandatory	
station	4309	mandatory	In order to allow export of an entire region, this parameter may become optional in future versions.
earliesttime	"2011-09-23 00:00:00"	optional	If either is omitted, the latest observation is returned. Typically up to a month of history data will be available, but this will vary depending on your contract.
latesttime	"2011-09-24 00:00:00"	optional	

Last-Modified

All HTTP Response Headers should contain a `Last-Modified` header indicating when the information behind the provided URL was last updated.

Clients may (should) provide the `If-Modified-Since` field in the http request header.

In the event that the client does provide `If-Modified-Since`, `304 not modified` may be returned if the server has no new data to present following that date & time.

For an observation data request, if the `earliesttime` & `latesttime` parameters are not specified, all data entered into the database past the date contained within `If-Modified-Since` will be produced. Data timestamped (...as

being observed...) both before and after If-Modified-Since may be returned, if it was processed after that date.

Example requests

Please note the username/passwords listed below are fictitious and requests using these will result in a 401 unauthorized error.

- Export the latest data for the station with id '430':
 - <https://birice.vaisala.com:10080/export?username=fredsmith&password=o9F23kqM&station=430>
- Export the data between two time periods for the station with id '430':
 - [https://birice.vaisala.com:10080/export?username=fredsmith&password=o9F23kqM&station=430&earliesttime="2011-09-23 00:00:00"&latesttime="2011-09-23 06:00:00"](https://birice.vaisala.com:10080/export?username=fredsmith&password=o9F23kqM&station=430&earliesttime=)

XML Format

Responses are provided in the xml-based Vaisala Observation format. An example follows:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<observation version="1.1.1" xmlns="http://www.vaisala.com/iceObsMsg">
<instance>
<target>
<idType>stationId</idType>
<id>430</id>
<name>A1234 Vaisala Street</name>
</target>
<resultOf timestamp="2011-12-20 09:20:00" codeSpace="ICE_SD">
<value code="ST" no="1">12.0</value>
<value code="TB" no="1">1.6</value>
<value code="TD" no="1">-1.3</value>
</resultOf>
</instance>
</observation>
```