

DAN Portal WebService

1. Usage	2
1.1. WSDL file	2
2. Functions	2
2.1. uploadDive.....	2
2.1.1. Success code.....	2
3. Classes	3
3.1. DanUser.....	3
3.2. Dive	3
3.2.1. DiveType values.....	3
3.3. GasSwitch	4
3.4. Profile.....	4

1. Usage

This document and the webservice are licensed under a [Creative Commons Attribution 4.0 International License](#).

With this web service you can upload dives directly into DAN Portal.
You need to upload each dive separately, one per web service call.

1.1. WSDL file

The WSDL file is located at:

<https://daneuropeds1.org/api/divecomputers?wsdl>

The endpoint is located at:

<https://daneuropeds1.org/api/divecomputers?ws=1>

2. Functions

2.1. uploadDive

`string uploadDive(DanUser user, string token, Dive dive, int test_mode)`

This function lets to upload a new dive in to the DAN Portal.

It will return a *json* string with 2 parameters: the success code (see table below) and an detailed description of the code.

It accepts 4 parameters: a [DanUser](#) type object, a [string](#) token (provided by DAN), a [Dive](#) type object and a [int](#) *test_mode*.

If *test_mode* is set to anything not equals to 0, the dive will not be uploaded to the database, but all other function will work. It has to be used in development fase.

2.1.1. Success code

Code	Description
000	<i>success</i>
001	<i>invalid token</i>

002	<i>user not found</i>
003	<i>wrong username/password (DanUser)</i>
004	<i>bad file format</i>

3. Classes

3.1. *DanUser*

DanUser object has the following proprieties:

Name	Type	Description
dan_id	<i>string</i>	User's DAN Id
dan_password	<i>string</i>	User's MyDAN Password

3.2. *Dive*

Dive object has the following proprieties:

Name	Type	Description
computercode	<i>string</i>	Dive computer code provided by DAN
starttime	<i>string</i>	Dive date and time (ISO 8601 format, e.g. 2008-10-31T15:07:38)
divetype	<i>int</i>	The type of apparatus used (see table below)
apnea	<i>int</i>	Must be set to 1 if the profile is in apnea
gasswitches	<i>Array of GasSwitch objects</i>	Array congaing all the gas switches used in the dive
profile	<i>Array of Profile objects</i>	Array congaing all the dive samples

3.2.1. DiveType values

Value	Description
1	Recreational
2	Rebreather
6	Technical

3.3. **GasSwitch**

GasSwitch object has the following proprieties:

Name	Type	Description
id	<i>int</i>	The gas switch id starting from 1 and unique
o2	<i>int</i>	O2 content (0-100)
he	<i>int</i>	He content (0-100)
volume	<i>int</i>	The tank volume in liters

3.4. **Profile**

Profile object has the following proprieties:

Name	Type	Description
time	<i>int</i>	Dive time in seconds
depth	<i>float</i>	Depth in meters
temperature	<i>float</i>	Water temperature in °C
gasswitch_id	<i>int</i>	The id of the current gas switch (only on changes)
tank_pressure	<i>int</i>	The pressure in the tank
ppo2	<i>float</i>	Partial Pressure of O2 (only Reb)
pphe	<i>float</i>	Partial Pressure of He (only Reb)

NOTES:

- The first element must be at time 0 and indicate a gas switch (not for apnea)
- The temperature, gasswitch_id, tank_pressure, ppo2 and pphe must be indicated only when values changes