



OCEAN DATA SYSTEMS Ltd.

DreamReport WEB API

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I. Introduction

The purpose of this document is to describe WEB API provided by DreamReport product. WEB API can be used in third party web applications that have needs in integration of DreamReport reporting functionality.

II. System Requirements

The client browser has to support javascript and cookies.

III. Description

The WEB API exists in the form of special URL that has to be composed in order to request specific service execution from DreamReport runtime engine. Following services can be requested:

- report generation

IV. Services

Report generation service can be requested with help of following URL:

```
http://hostname/DRWeb/WebAPI/GenReport.aspx?report=PDF%20Report&start=2000-10-11%2012:13:14&stop=2001-11-12%2013:14:15&ptype=abs&param1=1&param2=3&param3=hello
```

where:

report – contains name of the report that has to be generated, e.g. report=Report_0

instance – contains name of the instance of specified report to be generated, e.g. instance=Inst_1

ptype – time period type for report generation, see parameter details section

format – contains format of report to be generated, see parameter description

target – contains output target for report, 2 for printer, 16 for email

username – user name

passwd – password for user

other parts like param1, param2 are considered as report parameters and will be passed to report generator.

Note:

If variable values contain characters prohibited in URL they have to be encoded for URL format. For example: `encodeURIComponent("2012-09-03 10:00:00")` which will result in `2012-09-03%2010:00:00`.

Parameters for report generation e.g. param1, param2, etc. cannot have the same name as URL parts. Reserved words are: **report**, **instance**, **ptype**, **start**, **stop**, **format**, **target**, **user**, **pwd**, **fcolor**, **bgcolor**, **lang**

When such URL is set in to the IFRAME element it will be redirected to the waiting page and as soon as report generation is completed it will be redirected to the generated file or to the web report. In order to see PDF file on client side the Adobe PDF Reader has to be installed on client machine. It will automatically install add-in into the browser.

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V. Description of parameters

ptype:

- static – report generation with time period defined while report developed
- fixed - generate with fixed period mode
 - FTimeMode – last, current
 - FTimeNb – number of period units
 - FtimePerod – period units 0-minutes, 1-hour, 2-day, 3-week, 4-month, 5-quarter, 6-year
- rel – relative period format RDayFrom, RTimeFromH, RTimeFromM, RTimeFromS, RDayTo, RTimeToH, RTimeToM, RTimeToS – all simple integers
- batch - generation by batch.
 - BatchName – string with batch name
 - BatchType – 0-last, 1-current, 2 –golden batch, 3- absolute batch id
 - If 0 or 1 specified – looked for BatchCount as integer
 - If 3 specified looked for BatchAbsoluteID as string identifier
 - BatchSpecIdGen – “true” or “false” – if specified – looked for BatchFrom and BatchTo as string butch identifiers and ignore BatchType.
- orig - generate report with original date-time
 - OriginalDate- date time as integer in milliseconds from 01/01/1979 00:00:00 if not – report will generated with time period defined while report developed (same as static)
- abs - absolute time report generation, need two params
 - start – start time in format YYYY-MM-dd HH:mm:ss or as integer in milliseconds from 01/01/1979 00:00:00
 - stop - end time in format YYYY-MM-dd HH:mm:ss or as integer in milliseconds from 01/01/1979 00:00:00
 - UTCTime – is specified time is in utc or local fomate – “true” if UTC “false” if local.
- web – for backward compatibility if specified format parameter will ignored and web report will generated

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format:

- pdf – pdf report will be generated and downloaded
- excel - excel report will generated and downloaded
- web – web report will generated

username:

- username

passwd:

- base64 encoded password

Examples:

http://localhost/DRWeb/WebApi/GenReport.aspx?report=Report_0&format=pdf&ptype=rel&RDayFrom=4&RTimeFromH=0&RTimeFromM=0&RTimeFromS=0&RDayTo=2&RTimeToH=0&RTimeToM=0&RTimeToS=0&username=admin&passwd=YWRtaW4=

http://localhost/DRWeb/WebApi/GenReport.aspx?report=Report_0&format=web

http://localhost/DRWeb/WebApi/GenReport.aspx?report=Report_0&format=web&username=admin&passwd=YWRtaW4=

http://localhost/DRWeb/WebApi/GenReport.aspx?report=Report_0&format=pdf&ptype=fix&FTimeMode=0&FTimeNb=1&FTimePeriod=3

http://localhost/DRWeb/WebApi/GenReport.aspx?report=Report_0&format=web&ipp1=val1&ipp2=val2

http://localhost/DRWeb/WebApi/GenReport.aspx?report=Report_1&format=pdf&ptype=static&value=10&ipp2=val2

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