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# **Power Reports API**

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**CONTACT Software**

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## Interface objects

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**Important:** For developing custom PowerReport templates please see the OfficeLink user manual.

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### 1.1 WithPowerReports

**class** `cs.tools.powerreports.WithPowerReports`

In order to activate PowerReports for a system's object class, one of the conditions is that it inherits *WithPowerReports* (page 1).

**classmethod** `generate_report` (*report\_tmpl*, *ctx=None*, *objects=[]*, *rep\_exec\_type=None*,  
*report\_format=None*, *view=False*, *tpl\_file\_id=None*,  
*dlg\_args={}*)

Generate a PowerReport and perform defined server actions on it or simply return its filled report files as a list of pathnames.

#### Parameters

- **report\_tmpl** (*str* or *dict*) – Either only the `cdb_object_id` or a dict with the key attributes (`name`, `report_title`, `iso_code`) of an `XMLReportTemplate`.
- **ctx** (*\_ctx.Object*) – A `ctx` is only required if either no `objects` are given or `view` is `True`
- **objects** (*list*) – A list of persistent objects. If the list is empty and `ctx` is given and the xml source has a context, then the objects are taken from `ctx`.
- **rep\_exec\_type** (*str*) – See `ExecutionTypes` below for possible values. Passing `None` or an empty string defaults to the value in the report configuration.
- **report\_format** (*str*) – See `ExecutionTypes` below for possible values. Passing `None` or an empty string defaults to the value in the report configuration.
- **view** (*bool*) – If `view` is `False` then no further viewing action is performed on the report files.
- **tpl\_file\_id** (*str*) – (Optionally) directly define the template file, else it gets automatically selected from the given template (primary files first).

- **dlg\_args** (*dict*) – (Optionally) define the arguments for a report dialog (if `ctx` is not given).

**Returns** list – the generated report files, if `rep_exec_type` is not asynchronous. Else None.

**Raises** `ue.Exception`, `RuntimeError`

Table 1.1: ExecutionTypes

rep_exec_type	report_format
“Client”	“Excel”
“Server (asynchron)”	“Excel”, “PDF”, “Excel && PDF”
“Server (synchron)”	“Excel”, “PDF”, “E-Link”

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