Using the Generate command to generate reports

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Using the Generate command

You can enter the Generate command in the command line to generate a report.

To generate a report from the package scope

- `generate - project projectFileName -output outputFileName -template templateName -package packageNameList`

To generate a report from the element scope

- `generate -project projectFileName -output outputFileName -template templateName -element elementNameList`

To generate a report from the option specified in the properties file

- `generate -properties propertiesFileName`

To generate an encrypted password for Teamwork or Teamwork Cloud

- `generate -generatepassword password`

Description

The Generate command creates a report document with a received set of information from arguments and parameters. The information will then be generated as a report document to the specified output file. By default, an argument is the specified data of the invoked parameters. If the -properties option is specified, the argument is the name of a properties file. A properties file contains other parameters, along with the specified data of each parameter.

Synopsis

Command	Function
`-project projectFileName`	Specifies the MagicDraw project path as a file name.
`-output outputFileName`	Specifies the output file path as a file name.
`-template templateName`	Specifies a template name used to generate a report document. ⚠ **Note** - The template must exist in MagicDraw prior to using this command, otherwise an error will occur. - If the template name is not specified, the template specified in the Report Data (specified in the **-report** parameter) will be used instead.
`-templatePath templatePath`	Specifies a template path used to generate a report document. Both absolute and relative paths are allowed for this command. The specified template file must have proper structure as it has been added through the **Report Wizard** dialog. ⚠ **Note** If both **-template** and **-templatePath** are specified in the same command, the error will occur.

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-package packageNameList	Specifies the name of one or more packages in a MagicDraw project to be included in the report. Multiple package entries must be separated by a semicolon (;). ⚠ **Warning: Duplicate qualified name** Do not enter a duplicate name of a root Model package or its immediate child package to the -package option.
-element elementNameList	Specifies the name of one or more elements from a MagicDraw project to be included in a report. Element entries must be separated by a semicolon (;).
-elementID	Specifies the element ID of one or more elements in a MagicDraw project to be included in the report. Multiple element entries must be separated by a semicolon (;). ⚠ **Note** • You can get an element ID by using **$element.elementID**. • The element ID will change when the local project is added to Teamwork Cloud. Please make sure the element ID is up-to-date.
[options]	Command-line options.
-properties propertiesFileName	Specifies the name of a properties file to utilize. Use only with -properties.
-generatepassword password	Generates an encrypted password to be used with a properties file.

Options

The command line feature supports a set of options useful in adding additional configuration possibilities.

Command	Function
-report reportDataName| reportDataElementID	Specifies the name of a [Report Data](#) file or Report Data element. ⚠ **Note** • The Report Data file must exist in MagicDraw prior to using this command, otherwise an error will occur. • The value for this command can be either a Report Data name or Report Data element ID. • If the **-report** parameter is not specified, the previous Report Data will be set and used instead.
-autoImage 0|1|2|3	Specifies how an image will be shown in a report document. The default value for this argument is **1**. • 0 – No resize. • 1 – Fit image to paper (large only). • 2 – Fit and rotate image (clockwise) to paper (large only). • 3 – Fit and rotate image (counter-clockwise) to paper (large only)
-imageFormat jpg|png|svg|emf|wmf	Specifies an image format in a report document. The default value for this argument is **jpg**. • *jpg* – Joint Photographic Expert Group • *png* – Portable Network Graphics • *svg* – Scaling Vector Image • *emf* – Microsoft Windows Enhanced Metafile • *wmf* – Windows Metafile
-recursive true|false	Specifies how to select a package in a MagicDraw project. The default value for this argument is **true**. • **true** – Select the specified package and its recursive package. • **false** – Select only the specified package.
-includeAuxiliary true|false	Selects packages, including auxiliary packages. The default value is **false**.

`-outputOnBlankField stringValue`	Shows a string value in a blank field in a report document. The default value for this argument is "".
`-category categoryName`	Specifies a template category.
`-fields [name=value]`	Specifies a variable.
`-server serverName|IPAddress`	Specifies the name or IP Address of a Teamwork Server project.
`-login loginName`	Specifies a login name to log on to Teamwork Server.
`-password password`	Specifies a password to log on to Teamwork Server.
`-spassword encryptedPassword`	Specifies an encrypted password to log on to the server. This option is available only in a properties file. You can get encrypted password by entering this command below in command line prompt. ``` generate -generatepassword "enter_your_password_here" ```
`-upload serverAddress`	Specifies a serverAddress consisting of a scheme, userInfo, host, port, and path to connect and upload a generated report to a server (see *Upload generated report to server*).
`-overwrite true|false`	Overwrites any previously generated files. The default value for this argument is **true**. • **true** – Overwrites all files automatically (removes any existing file before generating a report.) • **false** – If the file exists, the following prompt message will open: ``` Output file already exists. Would you like to replace the existing file? [y][n]: ``` If you type 'y' or 'yes', the Report Wizard will generate a new report that replaces the previous one. If you type 'n' or 'no', the Report Wizard will not generate a report and terminate the process.
`-pversion projectVersion`	Specifies a Teamwork project version.
`-servertype tw | twcloud`	Specifies a type of server to connect. The default value is **tw**. • **tw** - Connect to Teamwork Server • **twcloud** - Connect to Teamwork Cloud
`-ssl true | false`	Specifies if a Secured Connection (SSL) is used. The default value is **false**. • **true** - Use Secured Connection (SSL) • **false** - Do not use Secured Connection (SSL)
`-tag tagValue`	An additional argument to generate reports from a server project by specifying a server project tag name. The tagValue is non-case sensitive. More than one project version may be returned from specifying one tag value. Hence, one report generation process may generate multiple reports. You cannot use this command with –pversion.
`-incremental true|false`	Specifies the incremental method. The default value is **true**. • **true** - The output report shall be generated by appending a new generated output file name with the incremental number. • **false** - The latest project version in the returned project collection. Use this command with -tag only.
`-leaveprojectopen`	Leaves the project open per property file after generating the report, in a series of report generation. The default value is **false**.

`-projectpassword projectPassword`	Specifies a password for the protected Teamwork Cloud project. The password is required to open a protected Teamwork Cloud project for generating a report.

Using command line

You can use the command line on Windows, Linux, or Unix.

To use the command line on Windows

1. Run a command line console. In the Console window, go to the local installation of the MagicDraw application.
2. Go to the plugins\com.nomagic.magicdraw.reportwizard folder, and type the command line there.

To use the command line on Linux or Unix

1. Run a terminal (command line console). In the Console window, go to the local installation of the MagicDraw application.
2. Go to the plugins\com.nomagic.magicdraw.reportwizard folder, and type the command line there.

See the following examples of command line on Windows and Linux or Unix respectively.

On Windows

```
generate -properties "C:\\output\\prop.properties"
```

On Windows

```
generate -project "C:\\MagicDraw\\samples\\diagrams\\class diagram.mdzip" -output "C:\\output\\output.rtf" -
template "Class Specification Report" -package "Model" -report "Built-in" -autoImage 1 -imageFormat png -
recursive false -outputOnBlankField "#NA" -fields "[Author=NMA][Company=No Magic]"
```

On Linux or Unix

```
./generate.sh -project "/home/project/project.mdzip" -output "/home/output/output.rtf" -template "Class
Specification Report" -package "Model" -report "Built-in" -autoImage 1 -imageFormat png -recursive false -
outputOnBlankField "#NA" -fields "[Author=NMA][Company=No Magic]"
```

Generating multiple reports

You can open multiple projects and generate multiple reports before MagicDraw shuts down. The **generate** command with the -properties option accepts multiple properties files as shown below.

```
generate -properties <file1.properties> <file2.properties> <file3.properties>...
```

For example

```
generate -properties "property1.properties" "property2.properties"
```

⚠ **Note**

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Template, **output**, **package**, and **project** are the required data for each property file.

✅ **Tip**

When large-size projects need to be loaded and closed for many property files, it takes longer time to generate reports. In this case, you can use **-leaveprojectopen** as an option to reduce memory for loading each project when starting to generate a new report.

there are no overridden values.

```
generate -leaveprojectopen true -properties "property1.properties" "property2.properties"
```

- -output

⚠️ **Note**

-leaveprojectopen needs to be specified before *-properties.*

- -tag
- -pVersion
- -recursive
- -category
- -includeAuxiliary