



---

# HOK Solibri Batch Manager

*(Updated 2016-11-04 by Jinsol Kim)*

---

## Overview

The HOK Solibri Batch Manager is designed to facilitate the use of [Autorun](#) feature in Solibri Model Checker(SMC) with the graphical user interface. This tool will help users create an xml configuration file and a bat file for batching process of models in an assigned directory of a remote machine.

## Requirements

- Solibri Model Checker v.9.5 \*\*
- Solibri Model Checker v.9.6
- Solibri Model Checker v.9.7

\*\*Some of newly released task types like “updatemodel” and “updatepresentation” are only available in version 9.6.10 or newer.



## Contents

<b>Overview .....</b>	<b>1</b>
<b>Requirements.....</b>	<b>1</b>
<b>1. Task Types .....</b>	<b>3</b>
<b>2. Batch Process.....</b>	<b>6</b>
2.1 Converting to SMC Models.....	6
2.2 Creating Presentation.....	7
2.3 Creating Reports.....	7
Report from Checking View.....	8
Report form Presentation View.....	8
BCF Report.....	8
Coordination Report.....	8
2.4 Updating Models and Presentation .....	9
<b>3. Settings .....</b>	<b>10</b>
3.1 Batch Options .....	10
3.2 Classification and Rulesets .....	11
3.3 Reports .....	11
3.4 Saving Solibri Model .....	12
3.5 Default Settings .....	12



## 1. Task Types

**openmodel** opens a model with defined parameters.

Parameters	
file	the path to a file with the following extensions .smc, .ifc, .ifczip, .zip, .dwg,
discipline	discipline of the model
shortname	short name for the model

**openruleset** opens a ruleset file with defined parameters.

Parameters	
file	the path of a ruleset file
provider	
resource	

**openclassification** opens a classification file with defined parameters.

Parameters	
file	the path of classification file
provider	
resource	

**check** checks the currently opened models with opened rulesets.

**autocomment** adds description to the issues in the checking result

Parameters	
zoom	TRUE or FALSE
maxsnapshotsincategory	if the category has more issues than the limit, the snapshots are added to the category level.

**writereport** generates reports from the checking view.



Parameters	
pdffile	the path of a pdf file to be saved
rtffile	the path of rtf file to be saved
major	inclusion of the results with major severity
normal	inclusion of the results with normal severity
minor	inclusion of the results with minor severity
rejected	inclusion of the results with rejected status
accepted	inclusion of the results with accepted status

**createpresentation** generates presentation slides from the checking results.

**generalreport** generates reports from the presentation view.

Parameters	
pdffile	the path of a pdf file to be saved
rtffile	the path of rtf file to be saved
major	inclusion of the results with major severity
normal	inclusion of the results with normal severity
minor	inclusion of the results with minor severity
rejected	inclusion of the results with rejected status
accepted	inclusion of the results with accepted status

**bcfreport** generates BCF reports from the presentation view.

Parameters	
file	the path of a bcf file to be saved
version	1 or 2(default)

**coordinationreport** generates coordination reports from the presentation view in Excel format.

Parameters	
file	the path of a coordination report to be saved as .xls or .xlsx formats



templatefile	the path of a template file with extensions .xls or .xlsx
--------------	---

**savemodel** saves the model as a SMC file.

Parameters	
file	the path of a smc file to be saved

**closemodel** closes the opened models in the current session.

**updatemodel** updates ifc models in the smc model with new models.

Parameters	
file	the path of an ifc file already opened
with	the path of a new ifc file to be replaced with

**updatepresentation** updates presentation after updating models

**exit** exits Solibri Model Checker.

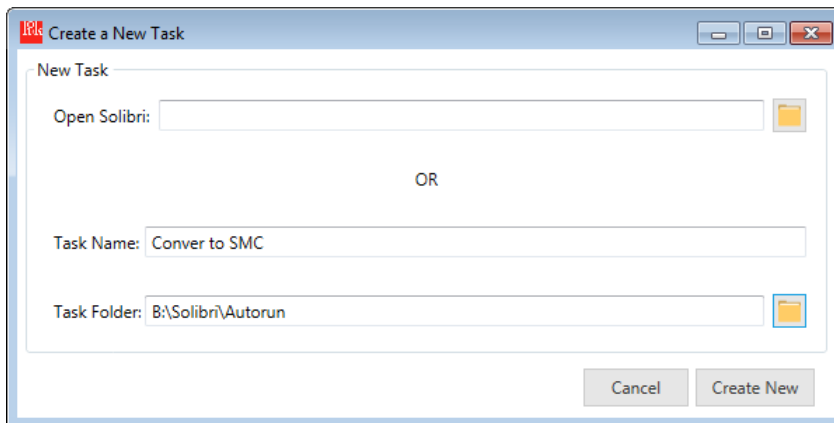
## 2. Batch Process

The HOK Solibri Batch Processor will help create a configuration file (.xml) containing all task types in sequences and a batch file (.bat) to execute Solibri Model Checker following the configuration file.

To start, create a task by clicking (+) button on the bottom left corner of the Tasks section.

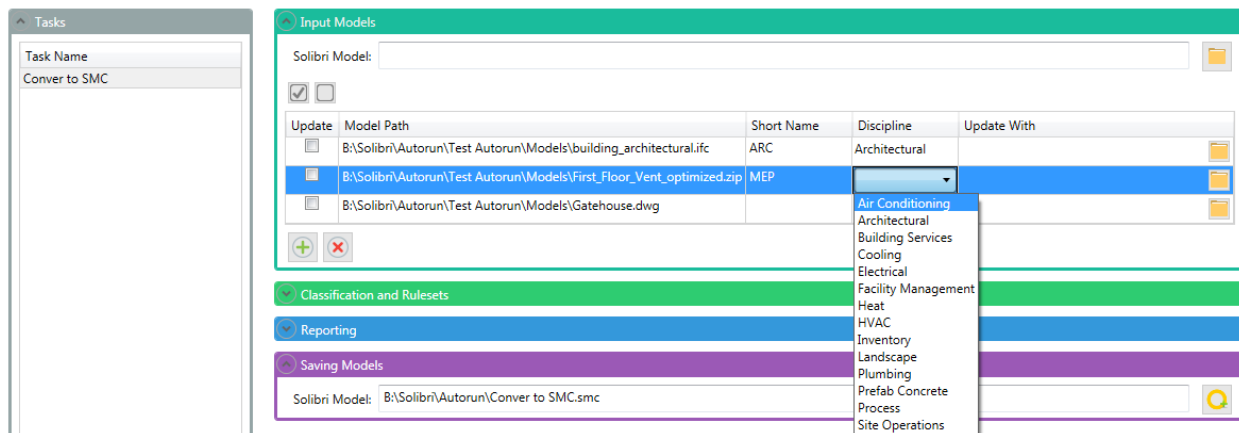
### 2.1 Converting to SMC Models

Create a task with a name and a directory for the task.



Add models among .ifc, .ifczip, .dwg, .zip formats to be combined in a Solibri model.

Specify an abbreviation for the model under Short Name column, and select a discipline among the drop-down list.

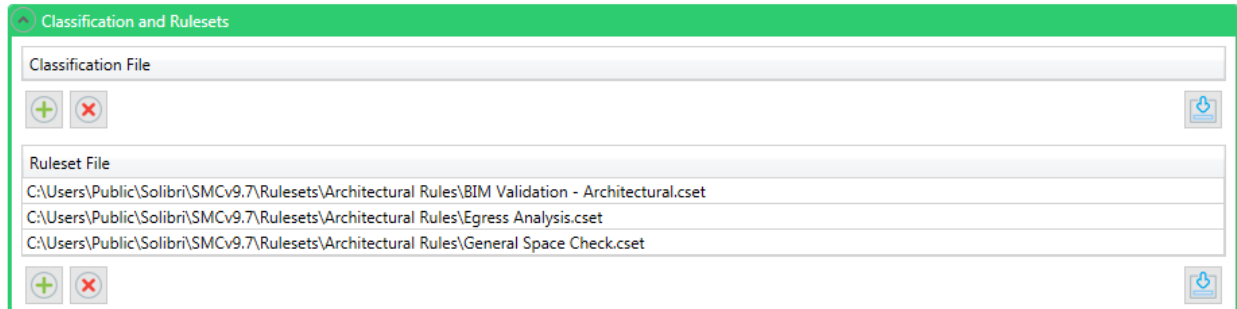


You can either specify the path of Solibri model to save, or just use the default path assigned by the tool.

## 2.2 Creating Presentation

Create a task and open models following the section above [2.1 Converting to SMC Models](#)

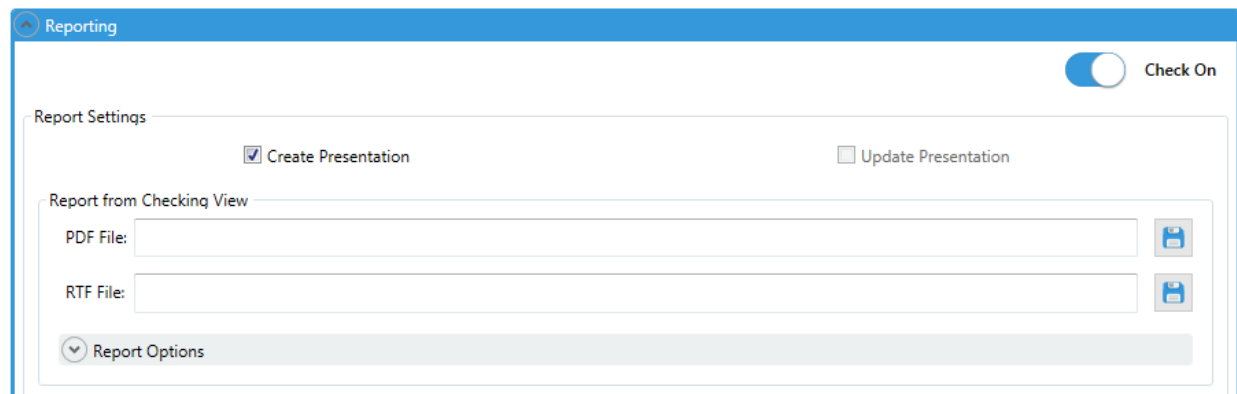
Expand “Classification and Rulesets” panel and add ruleset files to check.



If you want to import commonly used ruleset files from the settings, press down arrow button on

the bottom-right corner.  (See [3.2 Classifications and Rulesets](#) for more detail)

Under “Reporting” panel, turn on the toggle button to make the checking mode on and check the Create Presentation option.



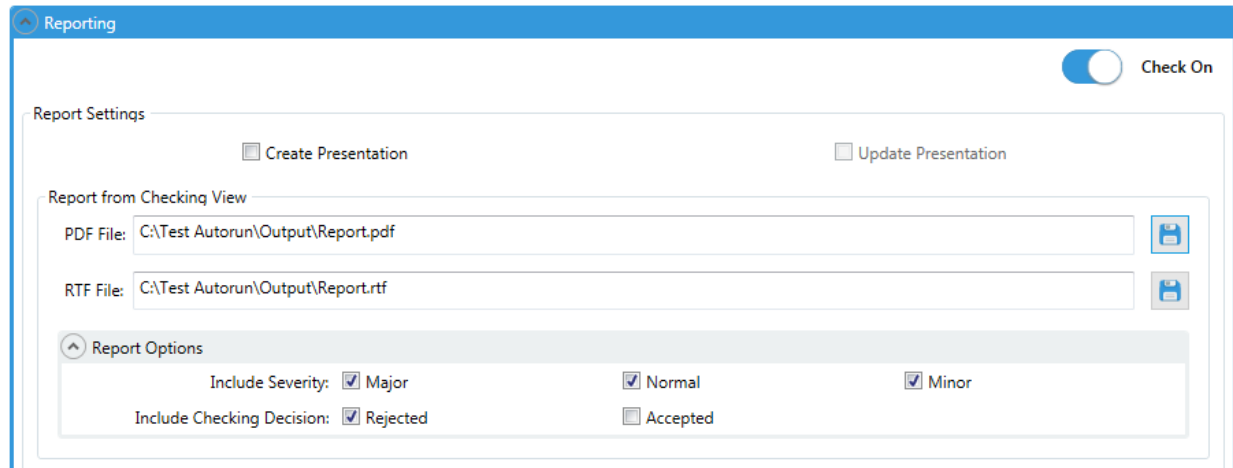
## 2.3 Creating Reports

In order to create reports, follow the steps above to create a task, and to add input models and rulesets [2.1 Converting to SMC Models](#), and [2.2 Creating Presentation](#).

### Report from Checking View

Specify a report path for pdf or rtf file. Select severity and checking decision options to include in the report.

\*Create Presentation is optional.



The Reporting dialog box features a blue title bar and a 'Check On' toggle switch in the top right corner. The 'Report Settings' section includes checkboxes for 'Create Presentation' and 'Update Presentation'. The 'Report from Checking View' section contains text boxes for 'PDF File' (C:\Test Autorun\Output\Report.pdf) and 'RTF File' (C:\Test Autorun\Output\Report.rtf), each with a save icon. The 'Report Options' section, indicated by a chevron icon, contains two rows of checkboxes: 'Include Severity' with 'Major', 'Normal', and 'Minor' (all checked), and 'Include Checking Decision' with 'Rejected' (checked) and 'Accepted' (unchecked).

### Report form Presentation View

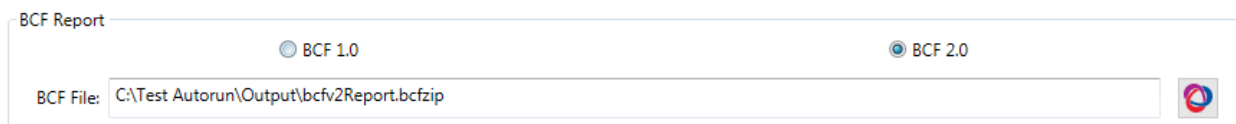
Specify a report path for pdf or rtf file.



The Report from Presentation View dialog box contains two text boxes for file paths: 'PDF File' (C:\Test Autorun\Output\GeneralReport\_PDF.pdf) and 'RTF File' (C:\Test Autorun\Output\GeneralReport\_RTF.rtf). Each text box is accompanied by a save icon on its right side.

### BCF Report

Select the version of BCF format (1.0 or 2.0) and specify the path for the bcf report.



The BCF Report dialog box features two radio buttons for 'BCF 1.0' and 'BCF 2.0', with 'BCF 2.0' selected. Below these is a text box for 'BCF File' (C:\Test Autorun\Output\bcfv2Report.bcfzip) and a save icon.


### Coordination Report


Specify a path for the coordination report and assign a template file to be used to create the report.



**\*\*The type of Excel should be matched between the report and the template file. If the template is “xls”, the report should be “xls”. On the other hand, “xlsx” template should assign with “xlsx” report.**

Coordination Report

Excel File:  


Template File:  

## 2.4 Updating Models and Presentation




When models contained in a smc file are externally updated, you can reload the same model into the Solibri model or replace with the updated model.



Simply select the check box under the Update column and it will fill the “Update With” column with the same path as Model Path to reload. Otherwise, specify the updated model path through the button for opening folder in Update With column to replace.

Input Models

Solibri Model:  


☒ ☐

Update	Model Path	Short Name	Discipline	Update With
<input checked="" type="checkbox"/>	C:\Test Autorun\Models\building_architectural.ifc			C:\Test Autorun\Models\building_architectural_modified.ifc 
<input checked="" type="checkbox"/>	C:\Test Autorun\Models\building_mep.ifc			C:\Test Autorun\Models\building_mep_modified.ifc 
<input checked="" type="checkbox"/>	C:\Test Autorun\Models\building_structural.ifc			C:\Test Autorun\Models\building_structural_modified.ifc 

If at least one model is selected for update, the option for Update Presentation will be automatically selected in the Reporting panel.

Reporting

 Check On

Report Settings

☐ Create Presentation ☒ Update Presentation

You can create reports with the updated presentation following the steps above. (See [2.3 Creating Reports](#))

### 3. Settings


The Solibri Batch Manager will store application settings to help assign the path of output files with predefined rules or import commonly used rulesets or classification files into the task as an automatic process.

Press the Settings button on the upper-right corner to open the Settings window.

#### 3.1 Batch Options

Select a version for Solibri to run the tasks created and a directory of a remote computer in which the configuration file (.xml) will be saved.




**Batch Options**



Solibri Version:  

Remote Computer:

In order to customize items for Solibri Version or Remote Computer, press the gear icon button on the upper-right corner.



**Solibri Options**

Solibri Version	Executable Path
Solibri Model Checker v9.5	C:\Program Files\Solibri\SMCv9.5\Solibri Model Checker v9.5.exe 
Solibri Model Checker v9.6	C:\Program Files\Solibri\SMCv9.6\Solibri Model Checker v9.6.exe 
Solibri Model Checker v9.7	C:\Program Files\Solibri\SMCv9.7\Solibri Model Checker v9.7.exe 

**Remote Machines**

Office	Computer Name	Default Directory
HOU	HOU-BAT-D001	\\HOU-BAT-D001\SolibriBatch
NY	NY-BAT-D001	\\NY-BAT-D001\SolibriBatch
PHI	PHI-BAT-D001	\\PHI-BAT-D001\SolibriBatch

Cancel

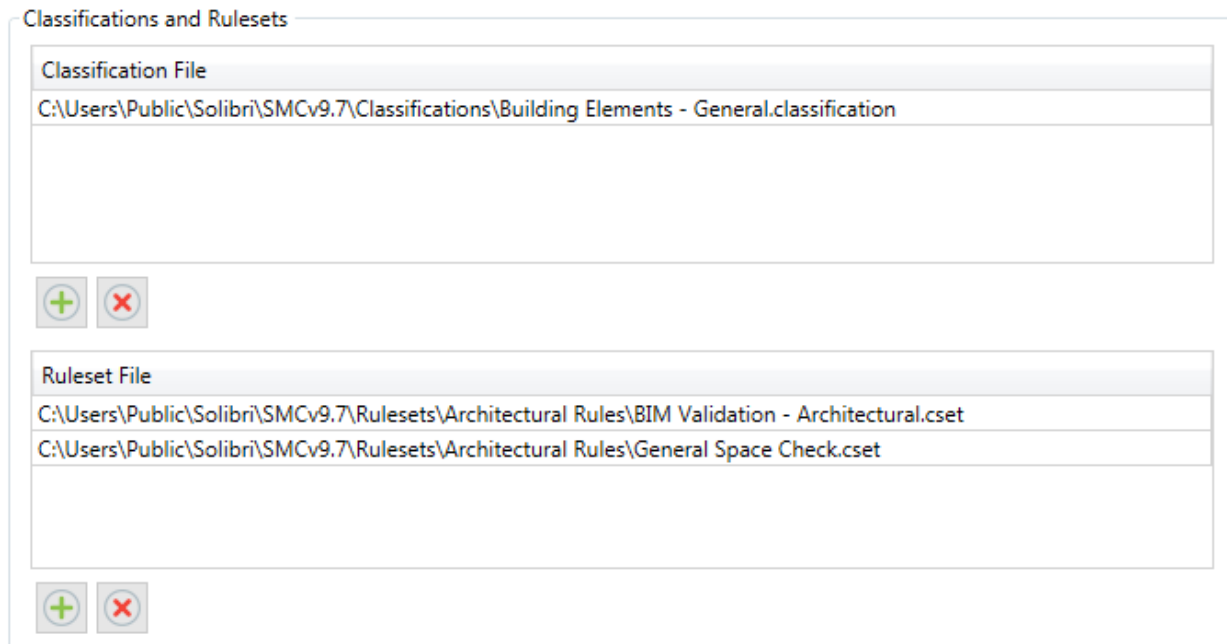
Apply

You can add/edit/delete items and apply to the current session. The options you created will be stored as an xml file in users' profile.

e.g. C:\Users\[user name]\AppData\Roaming\Solibri Batch Manager\BatchOptions.xml

### 3.2 Classifications and Rulesets

You can define presets of classification and ruleset files commonly used project-wide so that they can be loaded at once by the import button in the main window.



Classifications and Rulesets

Classification File

C:\Users\Public\Solibri\SMCv9.7\Classifications\Building Elements - General.classification

+ -

Ruleset File

C:\Users\Public\Solibri\SMCv9.7\Rulesets\Architectural Rules\BIM Validation - Architectural.cset

C:\Users\Public\Solibri\SMCv9.7\Rulesets\Architectural Rules\General Space Check.cset

+ -

### 3.3 Reports

Select types of reports to apply the saving rules for the path of output files. When you create a task, the tool will automatically set the path of the selected reports following the predefined rules.

- Save In Place : this will save the selected reports in the same directory with the same file name as the opening Solibri model or the task name.
- Save In Folder: this will save the selected reports in the assigned directory as the name of the opening Solibri model or the task name.
- Append Date in File Names: this will append a suffix of a date format i.e. yyyy-mm-dd into the file names of selected reports
- Coordination Template: default template for the coordination report.

**Reports**

Select Report Types to Apply.

☐ Report from Checking
 ☐ Report from Presentation
 ☒ BCF Report
 ☒ Coordination Report

☐ Save In Place

☒ Save In Folder:

☒ Append Date in File Names

Coordination Template:

With the pre-selected reports and settings, you will see the applied results like below when you create a task.

**BCF Report**

☐ BCF 1.0
 ☒ BCF 2.0

BCF File:

**Coordination Report**

Excel File:

Template File:

### 3.4 Saving Solibri Model

Similar to the settings for reports, you can select Save In Place or specify an output folder for the path of each Solibri model to be saved.

**Saving Solibri Model**

☒ Save In Place

☐ Save In Folder:

☐ Append Date in File Names


### 3.5 Default Settings

You can restore back to the default setting by the Set Default button on the bottom left corner.



**Settings**



**Batch Options**

Solibri Version: Solibri Model Checker v9.7 



Remote Computer: \\NY-BAT-D001\SolibriBatch

**Classifications and Rulesets**

Classification File

Ruleset File


 

**Reports**


Select Report Types to Apply.

☐ Report from Checking ☐ Report from Presentation ☐ BCF Report ☐ Coordination Report

☒ Save In Place


☐ Save In Folder: 

☒ Append Date in File Names

Coordination Template: 

**Saving Solibri Model**

☒ Save In Place

☐ Save In Folder: 

☒ Append Date in File Names