





Coordination Report Templates

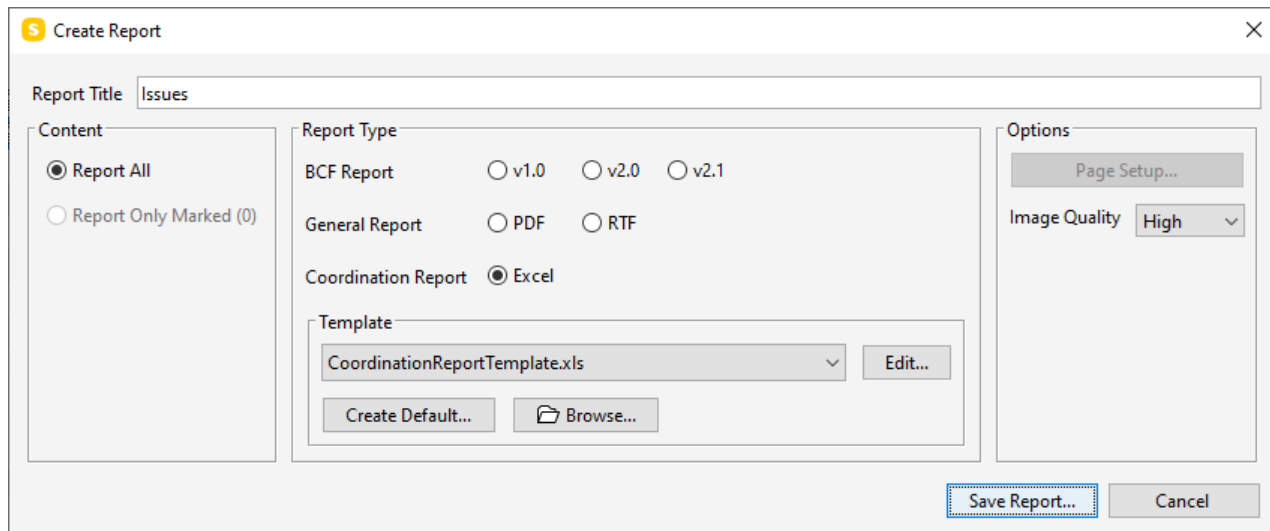
One of the most useful features found in Solibri is the ability to communicate information about issues within a Building Information Model (BIM) to a design team. One method is through a **Coordination Report**, which uses a Microsoft Excel Worksheet as a template, thereby allowing the user to either select from one of the out-of-the-box-templates or create their own custom template. As a Coordination Report uses Microsoft Excel as the format, it in essence is a table of issues found in the model. The information about issues come directly from the slides you create for results of checks in Solibri.

FIGURE 1: Example Coordination Report

A		B		C		D		E		F		G		H		I		J	
										Issues									
Model Name		Solibri Building Version: 9.12																	
Checker		John Doe																	
Organization		Solibri LLC - US																	
Date		August 5, 2021																	
Solibri Building		Date: 2012-10-13 16:41:27 Application: ArchICAD-B4 IFC: IFC2X3																	
Issues																			
Number	Id	Location	Date	Author	Title	Picture	Issue Description	Issue Comment	Responsibilities										
1	2	0. Ground floor, 1. First floor, 2. Second floor	22-Mar-2012	AUJ	No Construction			AUJ, 2012-03-22: Stairs don't have a construction type											
2	3	2. Second floor Lobby[301]	22-Mar-2012	AUJ	Column Compone			AUJ, 2012-03-22: Columns in the Second Floor are too short.											
3	4	3. Roof Lobby[301]	22-Mar-2012	AUJ	Wall 3 7: 0.6%			AUJ, 2012-03-22: This Wall is not properly supported. Discuss with Structural Engineer											

To create a Coordination Report, after creating a presentation of issue slides, click the **Report** button in the **Presentation** view. In the *Create Report* dialog seen below, you can select from one of the out-of-the-box-templates or create your own by clicking the **Create Default...** button.

FIGURE 2: Create Report Dialog



There are four out-of-the-box templates found in the Report Templates/Coordination Report folder of Solibri. The difference between the templates is the amount of information about the slides from the presentation that is included in the report. The following lists what columns are included for each template:

- **CoordinationReportTemplateSimpleReport:** Number, ID, Issue Title, Picture, Issue Description, Issue Comment
- **CoordinationReportTemplate:** Number, ID, Location, Date, Author, Title, Picture, Issue Description, Issue comment, Responsibilities, Action Required, Action Taken, Status
- **CoordinationReportTemplateDetailedReport:** Number, ID, Location, Date, Author, Issue Title, Picture, Issue Description, Issue Comment, Responsibilities, Action Required, Action Taken, Status, Hyperlink 1, Hyperlink 2, Components, Topic ID
- **CoordinationReportTemplateLargePictures:** Number, ID, Title, Description, Picture, Comments

If you would like to create your own, click the **Create Default...** button, and Solibri will create a new template with the same information contained in the CoordinationReportTemplate.xls template and open this template in Microsoft Excel for editing.

In order to populate the report with specific information from Solibri, keywords (e.g. <SLIDE_ID>) are used in a Microsoft Excel template file. When you view one of these templates, you can easily see the keywords as they are capitalized and surrounded by angle bracket “<” and “>” characters. Coordination templates can include multiple keywords in a single cell. Also, other descriptive text can be included in the cell along with keywords.

There are four types of template keywords: *General*, *Model*, *Presentation*, and *Slide*. *General* keywords provide general information about the report such as the title, user information, a company logo, etc. As this information pertains to a single entity, namely the report, these are the only keywords that can span multiple rows within the template. It is important to understand that the other three types of keywords relate to multiple entities. Your model can contain multiple IFC files, a report can contain multiple presentations, and a presentation contains multiple slides. Therefore, these types of keywords must be contained on a single row amongst themselves. When a report is being written, Solibri will iterate through those multiple entities creating rows one after another populating the keywords with information.

The *Model* keywords row should be below the rows of *General* keywords. Model keywords provide information about the IFC models that are open in Solibri. Below this, the single row with *Presentation* keywords should be above the row containing *Slide* keywords. When a report is written for multiple presentations, Solibri will iterate through each presentation, first writing the row containing the presentation information, and then the rows for the slides contained in the presentation. This is one of the reasons you shouldn't place any keywords in rows between the row for presentation keywords and slide keywords when creating a template. This is also a reason why a single row cannot contain keywords of different types.

Below is a screenshot of the *My Coordination Template.xmls* default template with the four keyword types highlighted in different colors:

FIGURE 3: General, Model, Presentation, and Slide Report Keywords Categories

General (Red)											
<IMG_IMAGE>			<REPORT_TITLE>								
Model Name			<FILE_NAME>Version:<SMC_VERSION>								
Checker			<USER_NAME>								
Organization			<USER_ORGANIZATION>								
Date			<CURRENT_TIME>								
<MODEL_NAME>			Date:<MODEL_TIME> Application:<MODEL_APPLICATION> <MODEL_TYPE>								
Presentation (Green)											
<PRESENTATION_NAME>											
Number	Id	Location	Date	Author	Title	Picture	Issue Description	Issue comment	Responsibilities	Stage	Tag
<SLIDE_NUMBER>	<SLIDE_ID>	<SLIDE_LOCATION>	<SLIDE_TIME>	<SLIDE_AUTHOR>	<SLIDE_TITLE>	<SLIDE_PICTURE>	<SLIDE_DESCRIPTION>	<SLIDE_COMMENT>	<SLIDE_RESPONSIBILITIES>	<SLIDE_STAGE>	<SLIDE_TAG>
Slide (Blue)											
<EMPTY>											

The following table describes the *General* keywords:

Keyword	Description	Where to edit
<PNG_IMAGE>	Your company logo or an image inserted as a picture	In the Microsoft Excel Worksheet template, insert the PNG image anywhere in the sheet, and it will appear in the cell that contains
<CURRENT_TIME>	The current date/time on your computer when the report is generated	
<REPORT_TITLE>	The title of the report, which may contain multiple presentations	In the <i>Presentation</i> view, click the Report button to open the <i>Create Report</i> dialog and set the <i>Report Title</i> .
<USER_NAME>	Your user name as currently set in Solibri	In the <i>File layout</i> , click Settings > General and set your <i>User > Name</i> .
<USER_ORGANIZATION>	Your user organization as currently set in Solibri	In the <i>File layout</i> , click Settings > General and set your <i>User > Organization</i> .
<FILE_NAME>	The file name of the SMC file you currently have open	In the <i>File layout</i> , click Save Model As... and set the <i>File Name</i> of the SMC file.
<SMC_VERSION>	The version of Solibri you are using (e.g. 9.12)	
<EMPTY>	Use this tag to designate a cell as being empty.	In the Microsoft Excel Worksheet template, insert this tag as a reference for where a cell should remain empty.

The following screenshots show the locations in the Solibri user interface that correspond to *General* keywords:

FIGURE 4: General Keywords from Create Report Dialog

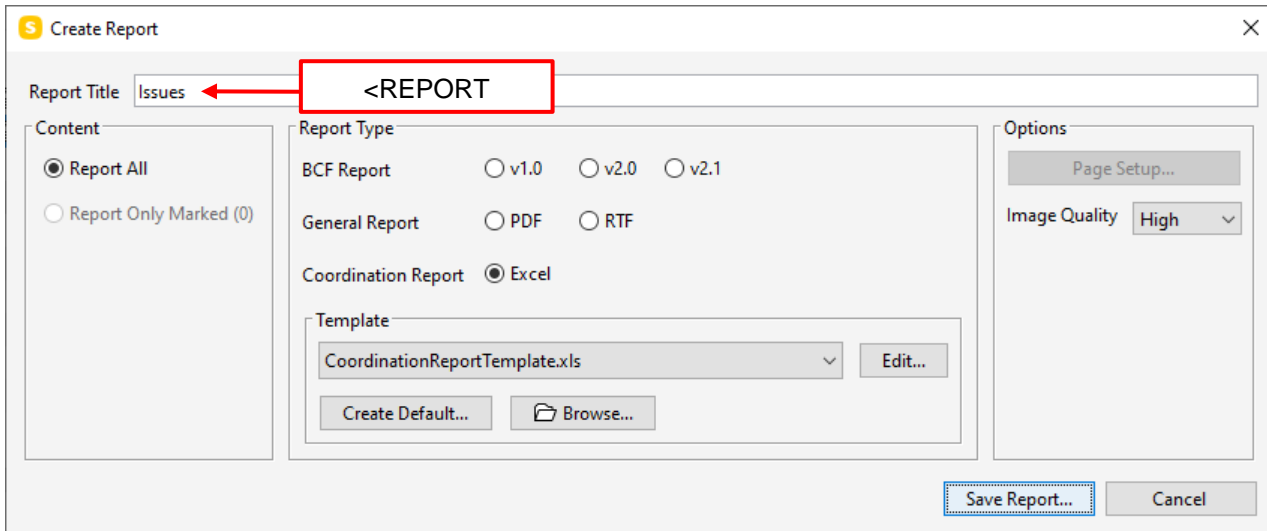
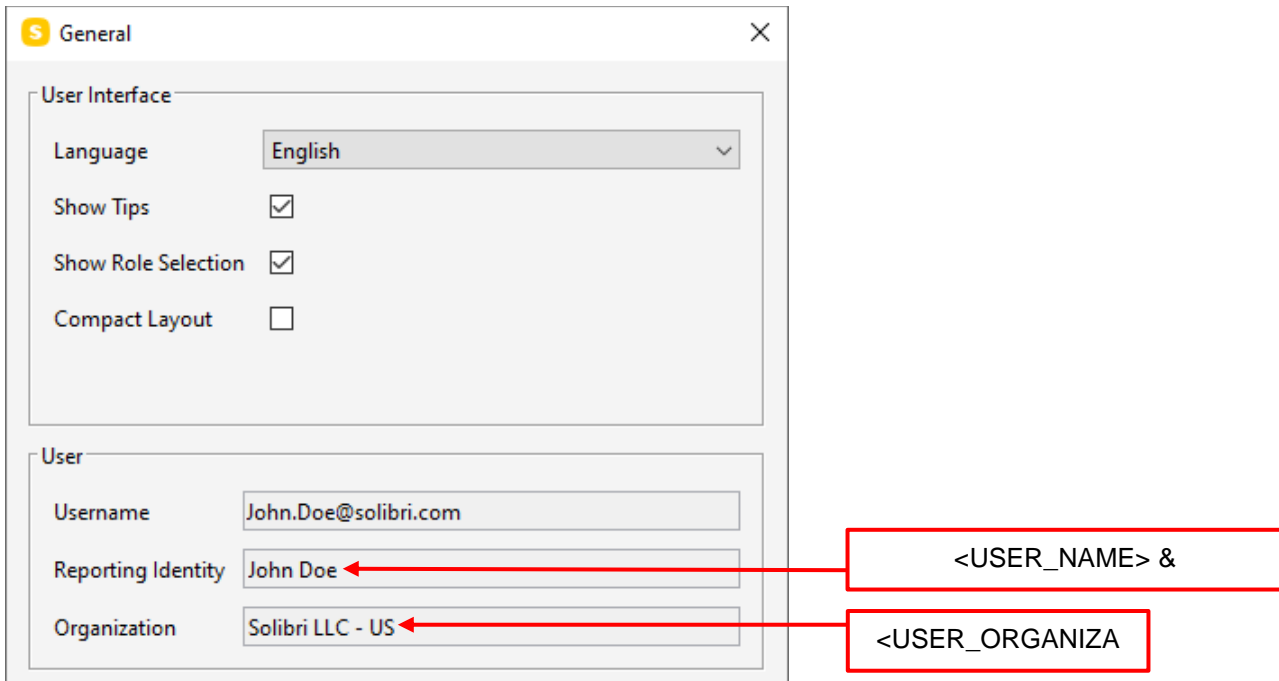


FIGURE 5: General Keywords from File – Settings – General



The following Model keywords relate to information about the models currently loaded in Solibri:

Keyword	Description	Where to edit
<MODEL_DISCIPLINE>	The discipline (e.g. Architectural, Structural, Building Services, etc.) of a model as set in Solibri	Right-click the model in the <i>Model Tree</i> view and select Set Discipline .
<MODEL_SHORT_NAME>	The short name (e.g. A, B, C, ARCH, STRUCT, MEP, etc.) of a model as set in Solibri	Right-click the model in the <i>Model Tree</i> view and select Set Short Name .
<MODEL_NAME>	The filename of a model	
<MODEL_TIME>	The timestamp of a model	
<MODEL_APPLICATION>	The name of the building authoring tool (BAC) that created a model	
<MODEL_TYPE>	The IFC Schema (e.g. IFC4, IFC2X3, IFC2X2_FINAL) of a model	

The following screenshots show the locations in the Solibri user interface that correspond to Model keywords:

FIGURE 6: Model Keywords from Info View – Identification

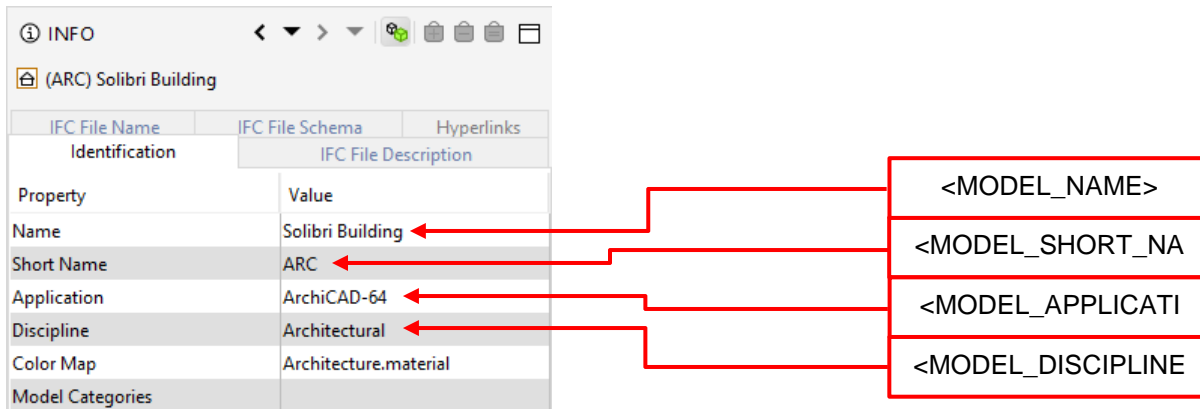


FIGURE 7: Model Keywords from Info View – IFC File Name

Identification		IFC File Description	
IFC File Name		IFC File Schema	Hyperlinks
Property	Value		
AUTHOR	Architect		
AUTHORIZATION	The authorising person		
NAME	Solibri Building.ifc		
ORGANIZATION	Building Designer Office		
ORIGINATING_SYSTEM	IFC file generated by Graphisoft...		
PREPROCESSOR_VERSION	PreProc - EDM 5.0		
TIME_STAMP	2012-10-15 16:41:27		

FIGURE 8: Model Keywords from Info View – IFC File Schema

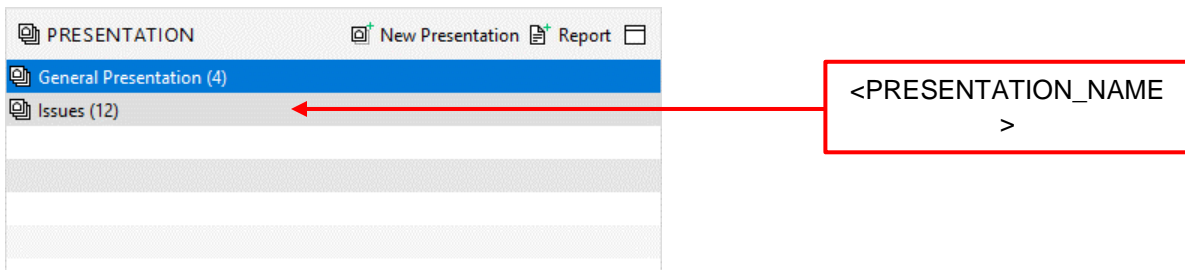
Identification		IFC File Description	
IFC File Name		IFC File Schema	Hyperlinks
Property	Value		
SCHEMA_NAME	IFC2X3		

The following *Presentation* keywords relate to information about the presentations reported:

Keyword	Description	Where to edit
<PRESENTATION_NAME>	The name of a reported presentation	Right-click the presentation in the <i>Presentation</i> view and select Rename...
<PRESENTATION_NUMBER>	The number of a reported presentation	The numbering is automatically generated by the ordering of presentations listed in the <i>Presentation</i> view. To change the numbering, you must remove the existing presentations and create them again in a new order.

The following screenshots show the location in the Solibri user interface that correspond to *Presentation* keywords:

FIGURE 9: Presentation Keywords from Presentation View



The following *Slide* keywords relate to information from slides in the reported presentations:

NOTE: To open the Issue Details dialog:

- Right-click the result in the *Results* view and select **Show Slide**.
- Or
- Right-click the issue in the *Issues* or *Issues Sorter* view and select **Edit Issue**.

Keyword	Description	Where to edit
<SLIDE_TITLE>	The title of the slide	<i>Issue Details</i> dialog > Title
<SLIDE_DESCRIPTION>	The description of the issue in the slide.	<i>Issue Details</i> dialog > Description
<SLIDE_ID>	The unique tracking ID of a slide in a Solibri Model NOTE: The unique ID of a slide is auto-incremented every time a new slide is created in a Solibri Model. There is no way to edit this number.	
<SLIDE_NUMBER>	The number of a slide based on the ordering of slides in a presentation	Drag the slide in the <i>Issue Sorter</i> view to reorder the slides and their numbers.
<SLIDE_LOCATION>	The location (e.g. floor, space name, space number, etc.) of an issue in a slide	<i>Issue Details</i> dialog > Location
<SLIDE_TIME>	The date/time when a slide was created	
<SLIDE_PICTURE>	The 3D viewpoint of a slide as a picture	In the <i>Issue Details</i> dialog, click the Update button after repositioning the camera in the 3D view.
<SLIDE_COMMENT>	The comments in a slide, which contain the author of the comment, the date the comment was created, and the comment itself	In the <i>Issue Details</i> dialog, type a comment to add it to the issue. Right-click in the list of comments to add/edit/remove comments.
<SLIDE_STATUS>	The status (assigned, closed, open, resolved) of a slide	<i>Issue Details</i> dialog > Status
<SLIDE_BCF_STATUS>	The BCF Issue Type (Error, Info, Unknown, Warning)	<i>Issue Details</i> dialog > Issue Type
<SLIDE_STAGE>	The stage of the issue in a slide	<i>Issue Details</i> dialog > Stage

<SLIDE_DUE_DATE>	The date to have an issue fixed addressed in a slide	<i>Issue Details</i> dialog > Due Date
<SLIDE_PRIORITY>	The priority of the issue addressed in a slide	<i>Issue Details</i> dialog > Priority
<SLIDE_RESPONSIBILITIES>	The names of the parties that are made responsible for the issue addressed in a slide	In the <i>Issue Details</i> dialog, add/remove Responsibilities.
<SLIDE_LABELS>	The labels attached to the issue in a slide	In the <i>Issue Details</i> dialog, add/remove Labels.
<SLIDE_AUTHOR>	The name of user that created a slide in Solibri Note: This name is set in the Solibri Solution Center under the Reporting Identity of the user.	
< SLIDE_HYPERLINK_1> < SLIDE_HYPERLINK_2> < SLIDE_HYPERLINK_3> < SLIDE_HYPERLINK_4> < SLIDE_HYPERLINK_5>	The hyperlinks (up to 5) that are attached to a slide	Right-click the result in the <i>Results</i> view or issue in the <i>Issue/Issue sorter</i> for Hyperlink options (new, edit, remove).
<SLIDE_TOPIC_ID>	The GUID of a topic from a BCF Report.	
<SLIDE_COMPONENTS>	The reported identities of components related to an issue	In the <i>Issue Details</i> dialog, select the <i>Components</i> tab to add/remove Components from selection basket. NOTE: To change the reported identities of the related components, click File > Settings > Presentation . In the <i>Components</i> , tab add/remove properties to identify the component.

The following screenshots show the location in the Solibri user interface that correspond to Slide keywords:

FIGURE 10: Slide Keywords from Issue Details – Slide

The screenshot displays the 'Issue Details' view in Solibri. Red arrows point from various UI elements to a list of slide keywords on the right. The keywords are: <SLIDE_TITLE>, <SLIDE_DESCRIPTION>, <SLIDE_STATUS>, <SLIDE_BCF_STATUS>, <SLIDE_STAGE>, <SLIDE_DUE_DATE>, <SLIDE_PRIORITY>, <SLIDE_RESPONSIBILI>, <SLIDE_LABELS>, <SLIDE_PICTURE>, <SLIDE_COMMENTS>, <SLIDE_LOCATION>, <SLIDE_TIME>, and <SLIDE_AUTHOR>. The UI elements include the title field, description text, coordination status (Rejected), status (Assigned), issue type (Error), stage (1), due date (2021-08-13), priority (P2), responsibilities (STR, LSC), a 3D model view, communication comments, and location details (Second floor).

FIGURE 11: Slide Keywords from Issue Details – Components

The screenshot displays a software interface for issue management. The main section is titled "Components Above Columns - C-4, 1'-5 11/16\". Below the title, there is a description: "Components Above Columns. Similar components that don't touch components above themselves. Checking requires surfaces to be parallel and facing to each other. Distance to the nearest...".

The "Coordination" section includes a status of "Rejected" (with a dropdown menu), "Assigned" status, "Error" issue type, "1" stage, "2021-08-13" due date, and "P2" priority.

The "Responsibilities and Labels" section shows "STR" and "LSC" with plus signs.

At the bottom, there are two tabs: "Communication" and "Components". The "Components" tab is active and shows a table with two columns: "Component" and "Reported Identity".

A red box labeled "<SLIDE_COMPONENTS" has a red line pointing to the "Reported Identity" column header in the table.

Component	Reported Identity
Column.2.9	0763F7AF-C8F8-4D71-81E8-535205F79342
Column.2.2	E1AC2F82-6EDC-4E49-9DBE-310D0C4C97A8
Column.2.7	770D769D-9787-4D6F-A53E-E5B9AEAB1E8D
Column.2.1	99BA5072-BD4C-4FBB-83FA-27C2DE1C421F
Column.2.4	DBC21E36-F928-483A-A0C0-46B0523A5C87
Column.2.8	10E19E91-23AA-4051-9C0E-3240276B8BC3
Column.2.3	C87CC281-C325-4D81-86EB-427F6D26C4CE
Column.2.6	12A8C8C7-414C-43D9-BB97-27D392447348
Column.2.5	A1430E62-A9CF-4033-BB70-6A1B5A56E17E