

Project Table of Contents Templates

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In some projects, the table of contents template requested is project specific. For these situations, instead of using the default system format, the table of contents can be built in Excel using Section Title Page variables.

Variable	Description	Available Parameters
Compilation Meta Data		
<CompilationName>	Compilation Name	
<TotalPages>	Total Pages	
Doc Code Meta Data		
<Section_TOCTOCNumber>	Section TOC Number	
<Section_TOCTOCHeader>	Section TOC Header	
<Section_HasDocCodes>	If Section includes Doc Codes, then variable returns Yes, else No.	
<i>Columnar Layout:</i>		
<Start_Section_FullHierarchyTree>	Array with document codes and sections which are included into Section.	count(YYY) columns AutoHeight
<Section_FullHierarchyTree.TOCTOCNumber>	TOC Number	
<Section_FullHierarchyTree.TOCTOCHeader>	TOC Header	
<Section_FullHierarchyTree.TOCTOCType>	Option shows type of the object. Returns "DOC_CODE" or "SECTION"	
<End_Section_FullHierarchyTree>		
<i>Columnar Layout:</i>		
<Start_Section_Documents>	Array with document codes, cards and sections which are included into Section.	count(YYY) columns AutoHeight
<Section_Documents.TOCTOCNumber>	TOC Number	
<Section_Documents.TOCTOCHeader>	TOC Header	
<Section_Documents.TOCTOCAnnex>	TOC/Code suffix for Included In and Not Applicable Codes	
<Section_Documents.TOCTOCType>	Option shows type of the object. Returns "DOC_CODE" or "SECTION"	

General Variables | TYPE=CoverPage (Reg+Comp),Stamp | TYPE=Transmittal | TYPE=Index | TYPE=Comp Doc Code Title | **TYPE=Comp Section Title**

Selecting a Section Title Page Template

First upload the template as Section Title Page in the Output Templates.

Then, select the template in the compilation settings.

Templates

Compilation Cover Page:	Default Compilation Cover Page [XLS] (system) ▼
Table of Contents:*	Compilation Table of Contents Template (system) ▼
<u>Section Title Page:*</u>	Valve Project Section Title Page [XLS] (Tunde Dorloti) ▼
Doc Code Title Page:*	Compilation Doc Code Title Page [XLS] (system) ▼
Sub-Package Title Page:	Compilation Sub-Package Title Page (system) ▼

Document Codes and Sections

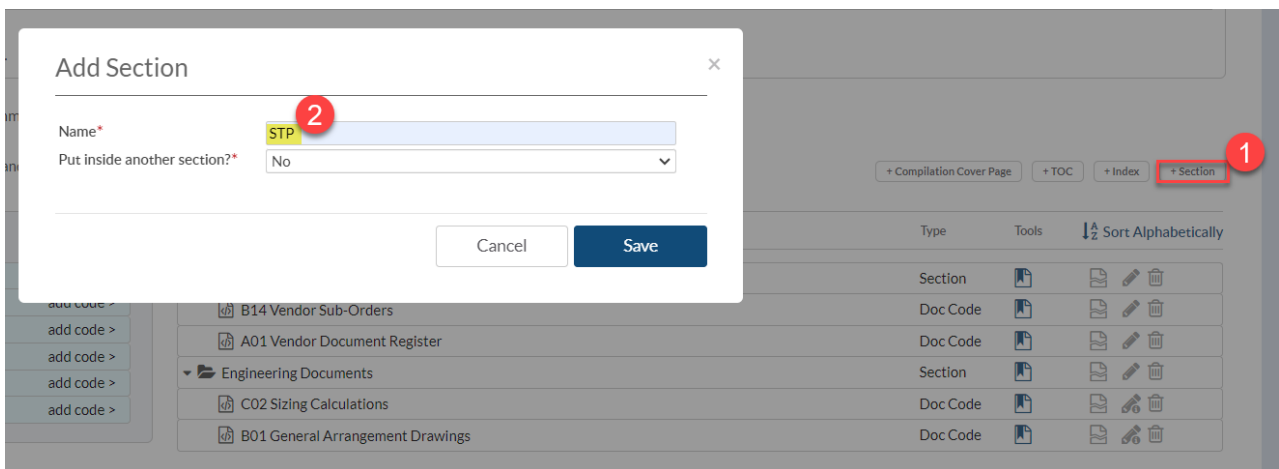
In the compilation structure, the Table of Contents should be removed.

Document Codes and Sections

* Hold CTRL (or SHIFT) and use left mouse click to select multiple codes

Name	Type	Tools	Sort Alphabetically
Table of Contents	TOC		
General Documents	Section	  	
B14 Vendor Sub-Orders	Doc Code	  	
A01 Vendor Document Register	Doc Code	  	
Engineering Documents	Section	  	
C02 Sizing Calculations	Doc Code	  	
B01 General Arrangement Drawings	Doc Code	  	

And a new Section should be created.



The screenshot shows the 'Add Section' dialog box with the following fields:

- Name*: STP (highlighted with a red circle '2')
- Put inside another section?: No

The background shows the 'Document Codes and Sections' table with a new '+ Section' button highlighted with a red circle '1'.

Note: This Section name will not appear in the table of contents template but it will be included in the Bookmarks.

Then, the entire compilation structure, built with document codes and sections, should be included in the new Section created to serve as the Table of Contents.

Document Codes and Sections


* Hold CTRL (or SHIFT) and use left mouse click to select multiple codes

Name	Type	Tools	Sort Alphabetically
STP	Section	  	
General Documents	Section	  	
B14 Vendor Sub-Orders	Doc Code	  	
A01 Vendor Document Register	Doc Code	  	
Engineering Documents	Section	  	
C02 Sizing Calculations	Doc Code	  	
B01 General Arrangement Drawings	Doc Code	  	

Depth of TOC

Note: Since the new section introduces an additional depth level to the compilation structure, the TOC depth should be increased to ensure all information is displayed in the output.


Table of Contents and Bookmarks sections options


Depth of TOC:*  Depth of Bookmarking:


Depth of TOC numbering: Start of TOC numbering:*

Hide first level TOC numbers

[Need some help?](#)

Bookmark pattern for cover page entry:* 

Bookmark pattern for TOC entry:* 

TOC/Bookmark pattern for cards:* 

Result in Compilation

As no separate Table of Contents is added to the compilation structure, the entire compilation must be generated to see the result when a Section Title Page is used.





NOTE: YOU MUST link the compilation to a Doc Code in order to see card specific details (doc numbers etc). For help with that step, [check out this article](#).

Section Title Page Variables

All general variables and card variables where compilation is attached included in TYPE=Comp Section Title variables list can be used in this template.

For example:

<Supplier_Logo>		 <div style="background-color: #4a7ebb; color: white; padding: 5px; border-radius: 5px;">General variables</div>
Project Reference:	<Project_Name>	
Equipment Description:	<Project_Description>	 <div style="background-color: #27ae60; color: white; padding: 5px; border-radius: 5px;">Card variables</div>
Supplier Name:	<Supplier_Name>	
Purchase Order Number :	<PO_Number>	
Item/Model:	<Document_Model_List>	
Tag Nos:	<Card_EqList Autoheight>	
Document Number:	<Document_CustomerDocNumber>	

Content Layout Options


Full Hierarchy Tree arrays

The TOC Number and TOC Header variables included in <Start_Section_FullHierarchyTree> and

<End_Section_FullHierarchyTree> arrays will show the document codes and section included into Section.

8	Doc Code Meta Data		
9	<Section_TOCNumber>	Section TOC Number	
10	<Section_TOCHHeader>	Section TOC Header	
11	<Section_HasDocCodes>	If Section includes Doc Codes, then variable returns Yes, else No.	
12			
13	Columnar Layout:		
14	<Start_Section_FullHierarchyTree>	Array with document codes and sections which are included into Section.	count(YYY) columns AutoHeight
15	<Section_FullHierarchyTree.TOCNumber>	TOC Number	
16	<Section_FullHierarchyTree.TOCHHeader>	TOC Header	
17	<Section_FullHierarchyTree.TOCType>	Option shows type of the object. Returns "DOC_CODE" or "SECTION"	
18	<End_Section_FullHierarchyTree>		

Result

	
Project Reference:	Project 18
Equipment Description:	Steel Valves
Supplier Name:	Wolfe PA
Purchase Order Number :	1234
Item/Model:	Butterfly Valve, Globe Steel Valve, Needle Steel Valve
Tag Nos:	Tag1, Tag2, Tag3, Tag4, Tag5, Tag6, Tag7, Tag8, Tag9, Tag10, Tag11, Tag12, Tag13, Tag15
Document Number:	1234-S06-42

Section	Description	Page No.
1.1	General Documents	2
1.1.1	B14 - Vendor Sub-Orders	3
1.1.2	A01 - Vendor Document Register	4
1.2	Engineering Documents	5
1.2.1	C02 - Sizing Calculations	6
1.2.2	B01 - General Arrangement Drawings	8

Section Documents arrays

The variables included between <Start_Section_Documents> and <End_Section_Documents> will show the compilation structure hierarchy including also the cards.

19	Columnar Layout:		
20	<Start_Section_Documents>	Array with document codes, cards and sections which are included into Section.	count(YYY) columns AutoHeight
21	<Section_Documents.TOCNumber>	TOC Number	
22	<Section_Documents.TOCHHeader>	TOC Header	
23	<Section_Documents.TOCAnnex>	TOC/Code suffix for Included In and Not Applicable Codes	
24	<Section_Documents.TOCType>	Option shows type of the object. Returns "DOC_CODE" or "SECTION"	
25	<Section_Documents.DocCode>	Primary Document Code	
26	<Section_Documents.IncludedCode>	String with doc codes which are included into Card	
27	<Section_Documents.StageAbbr>	Document Current Stage abbreviation	
28	<Section_Documents.CustomerDocNumber>	Customer Doc Number	
29	<Section_Documents.EndUserDocNumber>	End User Doc Number	
30	<Section_Documents.SubSupplierDocNumber>	Sub-Supplier Doc Number	
31	<Section_Documents.CustFieldX>	Document Custom FieldX, X is ID of custom Doc Code / Card Field. Value is empty for non-card objects.	
32	<Section_Documents.PageStartShow>	Page number	
33	<Section_Documents.DocumentPages>	Document Pages Count (including Cover Sheets). Value is empty for non-card objects.	
50	<End_Section_Documents>		
51			

Result

Section	Description	Customer Doc Number	Page No.
1.1	General Documents		2
1.1.1	B14 - Vendor Sub-Orders		3
1.1.1.1	Vendor Sub-Orders	1234-B14-5	
1.1.2	A01 - Vendor Document Register		5
1.1.2.1	Vendor Document Register	1234-A01-1	6
1.2	Engineering Documents		8
1.2.1	C02 - Sizing Calculations		9
1.2.1.1	Sizing Calculations - Tag1	1234-C02-6	10
1.2.1.2	Sizing Calculations - Tag2	1234-C02-7	11
1.2.1.3	Sizing Calculations - Tag3	1234-C02-8	12
1.2.1.4	Sizing Calculations - Tag4	1234-C02-9	19
1.2.1.5	Sizing Calculations - Tag5	1234-C02-10	20
1.2.1.6	Sizing Calculations - Tag6	1234-C02-11	21
1.2.1.7	Sizing Calculations - Tag7	1234-C02-12	26
1.2.1.8	Sizing Calculations - Tag8	1234-C02-13	27
1.2.1.9	Sizing Calculations - Tag9	1234-C02-14	31
1.2.1.10	Sizing Calculations - Tag10	1234-C02-15	32
1.2.1.11	Sizing Calculations - Tag11	1234-C02-16	33
1.2.1.12	Sizing Calculations - Tag12	1234-C02-17	34
1.2.1.13	Sizing Calculations - Tag13	1234-C02-18	35
1.2.1.14	Sizing Calculations - Tag15	1234-C02-19	36
1.2.2	B01 - General Arrangement Drawings		37
1.2.2.1	General Arrangement Drawings - Butterfly Valve	1234-B01-4	38
1.2.2.2	General Arrangement Drawings - Globe Steel Valve	1234-B01-3	39
1.2.2.3	General Arrangement Drawings - Needle Steel Valve	1234-B01-2	44

Order Data Source arrays

The arrays <Start_AllUnits|highOrderDataSource(Section_Documents)> and <End_AllUnits> include the "All Units" variables to list the equipment data.

These arrays should be used between <Start_Section_Documents> and <End_Section_Documents> to cross-reference card variables with the equipment units.

This layout is especially helpful for creating an index for packages of engineering documents (ie. drawings, data sheets, calculations) to list the equipment units with the applicable page number of each document.

<pre><Start_Section_Documents> <Start_AllUnits highOrderDataSource(Section_Documents) <AllUnits.SupplierLineNumber> <AllUnits.CustomerLineNumber> <AllUnits.Model> <AllUnits.Tag> <AllUnits.SubSupplier> <AllUnits.CustomerPoNumber> <AllUnits.CustomerPoRevNumber> <AllUnits.ShipDate> <AllUnits.Milestone> <AllUnits.MajorTag1> <AllUnits.CustomX> <AllUnits.CombinationUnitX> <End_AllUnits> <End_Section_Documents></pre>	<p>Array with document codes, cards and sections which are included into Section.</p> <p>Array with document units Every unit is shown, regardless of duplicate equipment number values. i.e. If Tag is set as equipment number, and Tag1 is used on 5 equipment unit rows, there will be 5 rows in this output for Tag1. Array with list of ALL equipment units. Each value is treated separately. It is possible to show only units with unique set of variables using distinct parameter. Not listed in the parameter variables will be empty. Example of applying "distinct" parameter: <Start_AllUnits HighOrderDataSource(Section_Documents) distinct(Model, Tag)> It is possible to define own sorting rule using sortBy or (and) SortOrder parameters</p> <p>Supplier Line Number Value Customer Line Number Value Item/Model Value Tag Value Sub-Supplier Value Customer PO Number Value Customer PO REV Value Shipment Date Milestone Date MajorTag1 Value CustomX Value (X is ID of custom Equipment Field) CombinationUnitX Value (X is ID of CombinationUnit Field, integer starting from 1)</p>	<pre>count(YYYY) columns AutoHeight count(YYYY) offset distinct(variable1, ... variableN), where variable is one of the following values: SupplierLineNumber, CustomerLineNumber, CustomerPoNumber, CustomerPoRevNumber, Model, Tag, ShipDate, Milestone, SubSupplier, MajorTag1, CustomX. UnitType=Name for Level Prefix sortBy=FIELD, where FIELD is one of the following values: SupplierLineNumber, CustomerLineNumber, CustomerPoNumber, CustomerPoRevNumber, Model, Tag, ShipDate, Milestone, SubSupplier, CustomX. SortOrder=ASC/DESC AutoHeight</pre>
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Result

SIZING CALCULATIONS INDEX

Item	Tag Number	Item/Model	Page No.
1	Tag1	Needle Steel Valve	2
2	Tag2	Needle Steel Valve	3
3	Tag3	Needle Steel Valve	4
4	Tag4	Needle Steel Valve	11
5	Tag5	Globe Steel Valve	12
6	Tag6	Globe Steel Valve	13
7	Tag7	Globe Steel Valve	18
8	Tag8	Globe Steel Valve	19
9	Tag9	Globe Steel Valve	23
10	Tag10	Butterfly Valve	24
11	Tag11	Butterfly Valve	25
12	Tag12	Butterfly Valve	26
13	Tag13	Butterfly Valve	27
14	Tag15	Butterfly Valve	28
15	Tag15	Butterfly Valve	28

Template examples

Attached to this article, we have included some Section Title Page examples, with the variables of each layout example explained above.