Telelogic Publishing Engine DOORS Quick Reference Guide Release 1.0 Before using this information, be sure to read the general information under Appendix, "Notices" on page 27.

This edition applies to **VERSION 1.0, Telelogic Publishing Engine** and to all subsequent releases and modifications until otherwise indicated in new editions.

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Telelogic Publishing Engine - DOORS Quick Reference

Data

TPE currently supports DOORS, Tau and generic XML data sources.

Queries and contexts

As mentioned in the Document Template section of the reference manual, a TPE template specifies the data to be extracted using *queries*. A *query* is a path in the data source schema.



Figure 1 Sample DOORS Data Schema

NOTE For easier identification attributes are rendered in italic.

The Document Studio abstracts users from much of the complexity of manually writing queries with features such as drag and drop of schema elements. Nevertheless, it is still useful for template authors to understand the concepts of schema and queries and how they are constructed. In the above data source schema some valid queries include:

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Query	Description
module	returns a single result, the source module
module.object	Returns all the objects in the source module, as filtered/sorted by the source view
module.object.attribute	If used in a module object context returns all the attributes for the current object.

A query can exist only in a template element. The template element and all its children can use the attributes of the entities returned by the current query and all of the queries from parent elements.

In the above example, if the query is *module.object* than any Object attribute from the schema can be used: Object Text, Object Heading etc

TPE template elements can be nested. Setting queries on elements and their children defines context. The query in the child element will be executed in the context of the parent's element query results.

Example:

Element 1: module.object

Element 1.1 (child of Element 1) : module.object.attribute

The second query will only return the list of attribute names for the current object returned by the query of element 1. In element 1 only the attributes of DOORS Objects can be used while in element 1.1 the attributes of DOORS *Object attributes* can be used (i.e the names of those Object attributes).

NOTE TPE Studio fully assists the user in building the queries and assigning the appropriate contexts. At no time you will be required to manually type a query.

Filtering data

Sometimes not all the data source is needed. In these cases you can limit the amount of processed data by setting a *filter* on the query. You can specify a filter in two ways:

- *TPE Filter* Javascript expression using the data attributes of the entities returned by the query
- native filter plain text that specific to each data source type.

When the query is performed, only the data entities matching the filter will be included in the output.

NOTE Not all data sources support native filtering.

NOTE For those data sources that support native filtering it is mandatory for the native filter to be a valid filter. TPE cannot and will not perform any validation on the native filter. Providing an invalid native filter can have results ranging from incorrect data in the output to the tool crashing.

NOTE For data sources accessed through TPE's Generic XML input driver it is not possible to define native filtering. The only exception to the rule is for the data sources where the filtering can be specified in the URL.

NOTE It is more efficient for filtering to be performed by the data source so whenever possible it is recommended to use a native filter as it should yield better document generation times than when a TPE filter is used.

Sorting data

Query results can be sorted. You can specify a filter in two ways:

- TPE Sort the list of attributes and the sort direction (ascending/descending)
- Native sort plain text that specific to each data source type. For DOORS this text must be in the format of the DOORS Sort

When the query will be performed, the elements will be displayed in the output document in the correct sort order.

NOTE Not all data sources support native sorting.

NOTE It is more efficient for sorting to be performed by the data source, so whenever possible it is recommended to use a native sort as it should yield better generation times than when a TPE sort is used.

DOORS Data

A **concrete** DOORS Data source is defined by a **view** from a **version** (i.e. Current version or a baseline) of a DOORS **module**. In this context the View is only used to define the filtered and sorted subset of data to use. By default the 'Standard View' is used that contains all Objects.

TPE can extract data from a DOORS database as long as a DOORS 9.1 Client is installed on the same machine. DOORS data can be extracted in two ways:

- Using a headless DOORS client run in the background
- Using an already running DOORS instance

The first method has the advantage of allowing continued use of any already running DOORS instances unhindered. The second method is slightly faster as the overhead of starting DOORS does not exist. The run mode is specified in the Document Specification using the TPE Launcher, by setting the *new_instance* property for each DOORS data source defined in the template.

NOTE TPE opens all the required modules in read-only access mode.

NOTE The data is extracted using DOORS DXL. On average the DXL execution time accounts for ~90% of the document generation time.

NOTE If the interactive run mode (using an existing DOORS instance) is set for a DOORS data source and no DOORS instance is running the data extraction will fail for that data source.

Configuring a concrete DOORS Data Source

When a DOORS data source is present in a Document template you need to define the following properties for the concrete data source:

_	_	Interactive	Headless DOORS
Property	Description	DOORS Client	Client
URI	The absolute path of the DOORS	required	required
	module in the database. Case		
	sensitive		
module_id	The module's unique ID. Used if the	optional	optional
	URI is not specified, ignored otherwise.		
doors_home	The absolute file path of doors.exe	required	required
doors_param	The database to connect to and any	required	requirea
	other valid DOORS command line		
	switch.		
	Default: -data 36677@localhost		
username	The DOORS account name to use for	not used	required
	data extraction		
password	The DOORS account password	not used	required
	(encrypted)		
baseline	The module version to use. Case	required	required
	sensitive		
	Default: Current		
View	The view to use for filtering/sorting	required	required
VICW	Case sensitive	required	required
	Case sensitive		
	Default: Standard View		
new_instance	If set to true a headless DOORS client	-	-
	is used otherwise TPE will attempt to		
	use an existing DOORS instance.		
	_		
	Values: <i>true/false</i>		
	Default: true		

NOTE Providing an incorrect value for any field marked as required (except *view* and *baseline*) will result in the output not being generated.

Providing an incorrect value *view* or *baseline* will result in the output being generated from the Standard View of the current module version.

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DOORS Schema

The DOORS schema was designed to be simple to use and to match closely the DOORS module structure. TPE comes with a predefined DOORS schema that is generic and valid for all DOORS Formal Modules, but new DOORS schemas can be created using the "Schema Discovery" wizard in TPE Studio.

NOTE The predefined DOORS schema is suitable when you are not interested in extracting particular user defined attributes from DOORS but rather the whole content of a view or all of the attributes of the DOORS Objects. When particular user defined attributes are required it is recommended to use the Schema Discovery wizard to generate a schema on your specific data.



Figure 2 Predefined DOORS Schema

Queries and attributes

The following queries and attributes are from the default DOORS schema provided by TPE. User defined schemas will contain additional queried and/or attributes.

Query	Results	Attributes
Module	a single entity, the Module specified in the data source configuration	Name - the Module's name
		 Description – the Module's description
		 Baseline – the Module version (baseline) used
module.attribute	the list of Module level attributes for the current Module	 Name – the attribute's name
		 _value – the attribute's value
module.view	a single result, the View defined for each DOORS data source in the document specification	 Name – the name of the View
module.view.column	the list of columns for the selected View	 Name – the name of the column
		 _value – empty
	NOTE The purpose of the	
	module.view.column query is to	
	without having to iterate the Module	
	Objects. The result does not contain column data.	
module.object	the list of all Objects of the specified	Object Identifier
	version of the current Module's as	Object Text
	The selected view	 Object Heading
		Absolute Number
		Object Level
		 Any attribute elevated by the user in the schema discovery wizard
module.object.attribute	the list of attributes for the current Object if this query is in the context of	Name: the attribute's name
	a <i>module.object</i> query, or the list of all attributes for all Objects in the Module	 _value: the attribute's value

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module.object.column	the list of columns in the selected View for the current Object	 Name: the column's name
		 _value: the column's value for the current Object
module.object.table	no results if the current Object is not a DOORS table	none
	a single result, (the DOORS table) if the Object is a table header Object	
module.object.table.row	the current table's rows	none
module.object.table.row.	a collection of Objects; the current	 Object Identifier
object	rows' cells. Same attribute list available	Object Text
	as for the module.object query	 Object Heading
		 Absolute Number
		Object Level

Images

Images are extracted with the attribute's value. You do not have to (nor can you) specify that you want to extract the images in a DOORS module. What you can configure is the size of the extracted images. The max size is specified through the "image max width" and "image max height" properties. These properties can be specified in two places:

• *element format info*- defines the images min/max size for the images contained in that template element

Formatting
🛨 common
🗉 date
🗉 data
🖬 image
🖃 image size
image width
image height
image max width
image max height
image min width
image min height

Figure 3

Data

• *document specification metadata* - defines the image's min/max size for all the images in all the templates. The element level values override these global values.

date	Nov 5, 2008
time	4:52:18 PM
client	Launcher
machine	spurlos
build	1_0_20081104
data formatting	mixed
date pattern	yyyy.M.d
output locale	
image max width	
image max height	
OLEs as static images	true

Figure 4

OLEs

TPE can extract OLEs from a DOORS data source. How the OLEs reach the output document depends on the output type and the options selected in the document specification.

OLEs will always be rendered as images in HTML and PDF output as those formats do not support OLEs.

For Word output the OLEs will be rendered as static images or as OLEs depending on the "OLEs as static images" flag in the metadata section of the document specification.

If "OLEs as static images" is set to TRUE, OLEs will be included in the output document as static images.

If "OLEs as static images" is set to FALSE, TPE will generate a "ref" folder in the same location as the Word output document. The ref folder contains RTF files for the OLE objects in the DOORS data source. The word output will have one include field pointing to a RTF file for each OLE exported from DOORS.

NOTE TPE cannot update Microsoft Word fields. As a consequence the include fields will not be visible when you open the generated Word document. To make the fields visible you need to take one of the following actions:

Action	Result
select the entire document content and	The OLEs are displayed in the document.
use the "Update fields" function in	The document is not self-contained.
Word	
use the "updateFields" macro provided	The OLEs are displayed in the document.
by TPE	The document is not self-contained.
use the "insertOLEs" macro	The OLEs are displayed in the
provided by TPE	document. The document is self-
	contained.

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NOTE Updating the fields in the document will not make the Word document self contained. This means that moving such a Word document from the machine it was generated on will prevent editing the OLEs. To make the document self contained you need to run the "insertOLEs" macro.

Tables

You need to explicitly query for DOORS tables as they are not extracted automatically from DOORS. Manually adding the queries for extracting a table requires extra effort when building the template but it has the advantage of allowing fine grained control over the formatting of the table.



Figure 5 Extracting tables from DOORS

NOTE Due to how TPE handles elements, the table will only get created for those DOOPS objects that start a table.

NOTE The cells of a DOORS table do not have a dedicated type in the DOORS schema. The content of the cells can be retrieved through the *module.object.table.row.object* query.

NOTE In the case of objects that are DOORS Table cells their *Object Text* attribute is a combination between *Object Heading* and *Object Text*.

What cannot be extracted

TPE does not allow the user to produce documents on the DOORS database structure. Furthermore TPE does not provide the means to query the *module's baseline list* or the *module's list of views*.

NOTE A DOORS Data Source in TPE is defined by the *<module, baseline, view>*. If you want to extract data from more than one module or baseline or view, you can do this in three ways:

 Define more than one DOORS Data Source in the template and add the corresponding template elements

or

• Add the same template multiple times to the document specification and configure the data sources for each template instance to the desired <module, baseline, view>

Add multiple templates to the document specification and configure the data sources for each template instance to the desired <module, baseline, view>

DOORS Schema Discovery

The wizard guides you in building a schema for a specific DOORS module. This will greatly simplify authoring document templates for modules with the same structure (same or similar attribute list) **Start** the wizard

🖶 DOORS Schema Wizard	×
DOORS Schema Discovery Wizard Welcome to the DOORS Schema Wizard	
This wizard allows users to generate a schema file from a DOORS Database and optionally add the newly created schema to the current template.	
< Back Next > Einish Cancel	

Figure 6

Configure DOORS Connection

Specify how you want TPE to connect to DOORS in order to discover the schema.

🕆 DOORS Schem	a Wizard	
DOORS Connect	ion options pelow	
Select the DOORS in OUse running DOC Run a new backg	stance to connect to: R5 instance round DOORS process	
Username]
Password]
Database	<port>@<address></address></port>]
Path to doors.exe		Browse
	< Back Next > Einish	Cancel

Figure 7

Select for which module you want to discover its schema

🖀 DOORS Schema Wizard 🛛 🔁
DOORS Module selection Select a Module from the DOORS database
Select a DOORS module:
< <u>B</u> ack <u>N</u> ext > Einish Cancel

Figure 8

Select the baseline from where to read the attributes

Once you've selected the module you need to specify the module's baseline you want to use. The selected baseline will determine which attribute set to use.

🖶 DOORS Schema Wizard 🛛 🛛 🔀
DOORS Baseline
Select a Baseline from the previously selected DOORS Module
Select a Baseline:
Current 0.1
0.2
<pre><<u>Back</u> <u>N</u>ext > Einish Cancel</pre>

Figure 9 Selecting the baseline

Select the attributes to elevate

This screen allows you to select the attributes to use. The attribute set is taken from the baseline selected in the previous screen.

🖶 DOORS Schema Wizard 🛛 👔					
DOORS Attributes					
Select Attributes which					
Select Attributes to eleva	ate:				
Attribute Name	Scope	Elevation Name	<u>~</u>		
Created By	module	Created_By			
📃 Created On	module	Created_On			
Description	module	Description			
Last Modified By	module	Last_Modified_By			
Last Modified On	module	Last_Modified_On	~		
Select All					
< <u>B</u> ack <u>M</u> ext > Einish Cancel					

Figure 10 Selecting attributes

An elevated attribute allows direct access to that attribute's value from a *module.object* context. Non elevated attribute values are available only from a *module.object.attribute* context.

NOTE You can select the attribute set from any baseline of the module but you cannot have attributes selected from 2 different baselines.

NOTE The elevated name is the name used in script expressions. Hence it must be a valid JavaScript identifier. TPE will generate a valid name out of the DOORS attribute name and will prevent you from changing it to an invalid name.

NOTE The selected baseline is used for the sole purpose of defining the attribute shown to the user. This information (the baseline used to elevate the attributes) is not used at document generation time. If one attribute does not exist in the baseline used for document generation nothing will be rendered for it in the output.

Select the columns you want to elevate

🗄 DOORS Schema Wizard			×	
DOORS Views and Columns Select a View and Columns which need elevation				
Select View: Standard view Evaluation Evaluation - DocExpress Evaluation - Eclipse BIRT Evaluation - ReporterPLUS Evaluation - Target Full Details Requirements Scope	Select Columns to elevate Column Name User Requiremen V Weight Weighted Score Weighted Score Weighted Score Weighted Score Select All Deselect A	e: Elevation Name Evaluation_User_R Evaluation_Weight Evaluation_Weighte Evaluation_Weighte Evaluation_Weighte		
< <u>B</u> ack <u>N</u> ext > Einish Cancel				

Figure 11

An elevated attribute allows direct access to that attribute's value form a *module.object* context. Non elevated attribute values are available only from a *module.object.column* context.

NOTE You can elevate columns from any number of views.

NOTE With the current TPE version you can elevate only columns that do not contain < or >.

NOTE The elevated name is the name used in script expressions. Hence it must be a valid JavaScript identifier. TPE will generate a valid name out of the DOORS column name and will prevent you from changing it to an invalid name.

Save schema and add it to the current template

🗄 DOORS Schema Wizard 🛛 🛛 🔀				
Select Schema Opti	ons			
Save the generated sche	ema to the selected location			
Select Schema Location:	C:\DOCUME~1\calin\LOCALS~1\Temp\default_schema1223	Browse		
	Add Data Source Schema to the current template			
Data Source Schema ID:	Data Source Schema ID: D53			
	< <u>B</u> ack Next > Einish	Cancel		

Figure 12

NOTE You should save discovered schemas so you can reuse them in other templates without having to run the schema discovery wizard again.

Review changes and finalize the wizard

🖶 DOORS Schema Wizard	×
DOORS Schema Summary Review your selections before pressing Finish.	
Wizard summary: Schema file: C:\DOCUME~1\calin\LOCALS~1\Temp\default_schema1223891050571_1430910- Schema will be added to the currently open template with ID: DS3 Module name: User Requirements Baseline version: Current Elseptid attributes	
Elevated attributes: module attribute: Description module attribute: Name object attribute: Absolute Number	>

Figure 13

DOORS Addin

TPE integrates with DOORS to allow DOORS user to generate documents from within their familiar environment. TPE allows a DOORS user to generate documents based on predefined document templates or specifications.

The integration is available both within a module as well as from the database explorer

🜆 DOORS Database: /Require	ments - DOORS	
File Edit View Favorites Tools	Publish Help	
i 🖬 🗃 🏜 🛊 🛣 🖩 📾	Generate Document	
Favorites	Set Location of Document Specification Library	~
🖃 📋 DOORS Database	About Telelogic Publishing Engine	Description
	User Hequirements Formal	Altair User Requirements specification
∎-⊡ IPE ∎-⊡ work		

Figure 14 TPE Addin in database menu

📑 'User Requirements' current 0.1 in /Requirements (Formal module) - DOORS						
File Edit View Insert Link Analysis Table Tools Discussions User DocExpress Publish Help						
i 🛃 🏟 💾 🕴 📑 🖶 📾	🕴 🚏 🚏 🗗 🗚 🧤 🕴 🌚 🧭 🧊 🛛 Generate Document					
View Standard view 🔽 📕 III evels 🔽 🕴 📲 🚠 🕴 📲 🥁 About Telelogic Publishing Engine						

Figure 15 TPE Addin in module menu

Before using the integration a DOORS Administrator needs to set the location for the "Document Specification Library". The Document Specification Library is a folder on the local or network file system used to host document templates and specifications to be shared by all users. The library can contain subfolders to structure the templates as needed, and standard filesystem access rights can be used to control which templates and document specifications are visible to which users.

🖪 TPE - Set Global Library Location - DOORS 🛛 🛛 🔀
Please select an XML file in the library root folder that can be used to store the Document Specification Library details. (Create a new empty XML file, or select an existing one).
Note: This location should be accessible by all DOORS clients who wish to use TPE.
D:\TPE\dxlib.xml Browse
OK Cancel

Figure 16 Setting the Document Specification Library

Installation

The TPE addin for DOORS is automatically installed by TPE if a valid DOORS installation is found. If you install DOOR after you have installed TPE you can install addin by running the TPE installer again with the option to modify the existing installation.

🛃 Telelogic Publishing Engine 1.0 - InstallShield Wizard 🛛 🛛 🔀					
Program Main Modify, repair,	Program Maintenance Modify, repair, or remove the program. Telelogic				
	Change which program features are installed. This option displays the Custom Selection dialog in which you can change the way features are installed.				
O Repair	Repair installation errors in the program. This option fixes missing or corrupt files, shortcuts, and registry entries.				
○ <u>R</u> emove	Remove Remove Telelogic Publishing Engine 1.0 from your computer.				
InstallShield ———	< <u>B</u> ack <u>N</u> ext > Cancel				

Usage

To publish a document from within DOORS you need to follow a set of simple steps.

Select the document template/specification.

🜆 TPE - Publish Document Wizard - DOORS	
Step 1 - Select a Document Specification / Template	
Select a Document Specification / Template from the list below	
TPE Comparison C	
File Name	
D:\TPE\demo.dta	Browse
Document Specification / Template - Description:	
,	
Please click 'Next' to continue	
	lext> Cancel

Figure 17

If the document template/specification is not in the library use the browse button to select it.

NOTE The description field is not filled in the current TPE version.

Select the data sources to be used

有 т	🖪 TPE - Publish Document Wizard - DOORS						
Step	Step 2 - Select data sources						
	Select data sources that you want to use						
	Template	Data Source Name	Data Source Type				
	D:\TPE\demo.dta D:\TPE\demo.dta	DS 1 DS 2	DOORS DOORS				
	Place diak 'Neut' to continue						
				E.			

Figure 18

NOTE A data source that is not selected in this screen will be ignored during the document generation process.

NOTE If no DOORS data source is selected, the wizard will not continue.



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Figure 19 Warning message

Configure the data sources

Applicable when running from the Publish menu in the DOORS database explorer

-	🚪 TPE - Publish Document Wizard - DOORS 🛛 🛛 🔀						
Ste	Step 3 - Configure DOORS data sources						
	Configure data sources from	n the list below					
	Template	Data Source	Module Name	Baseline View			
	D:\TPE\demo.dta	DS 1					
	D:\TPE\demo.dta	DS 2					
	Configure Data Source						
	Please click 'Next' to continue						
				<back n<="" td=""><td>ext> Cancel</td></back>	ext> Cancel		

Figure 20 Configure data sources screen

NOTE If you are publishing a document template the DOORS data sources are left empty.

If you are publishing a document specification, the DOORS data sources are initialized with the configuration set in the document specification.

NOTE You can only configure DOORS data sources. If you are using a document specification, any existing configuration for non-DOORS data sources will be preserved.

Configure the data sources

Applicable when running from the Publish menu in a DOORS Module.

1	📲 TPE - Publish Document Wizard - DOORS 🛛 🔀					
Ste	eo 3 - Configure DOORS da	ata sources				
	,					
	Configure data sources fr	on the list below				
	Conligure data sources in					
	Template	Data Source	Module Name Baseli	ine View		
	D:\TPE\demo.dta	DS 1	/Requirements/ Curren	t Standard		
	D:\TPE\demo.dta	DS 2	/Requirements/ Curren	t Standard		
	Configure Data Source					
	Flease click inext to continue					
				<back next=""> Cancel</back>		

Figure 21

NOTE The DOORS Data sources are initialized with the current module, view and baseline. If you are publishing a Document Specification any existing DOORS Data Source configuration is automatically overridden (though you can still manually change each)

NOTE You can only configure DOORS data sources. If you are using a document specification, any existent configuration for non-DOORS data sources will be preserved.

NOTE If not all selected DOORS sources are configured TPE will issue a warning but will allow you to continue.

DOORS	
?	Un-configured data sources. Do you want to continue ?
	Confirm

Figure 22

Configuring a data source

If you want to change module/baseline/view assigned to a data source you need to select the data source in the list and click the "Configure Data Source" button. The structure of the database will be displayed in a new window allowing you to select the desired module/baseline/view.

🐴 TPE - Explorer - DOORS			
Please select an item			
DOORS Database Requirements User Requirements User Requirements User Requirements User Requirements User Requirements User Requirements Views Evaluation - DocExpress Evaluation - Eclipse BIRT Evaluation - Eclipse BIRT Evaluation - Target Full Details Requirements Scope Scope - v1.0 Standard view TPE			
ie- [™] work			
	Add Close		

Figure 23

Configure the output

Once all data sources are configured you can define the document outputs that you want to use.

🐴 TPE - Publish Documen	t Wizard - DOORS	X		
Step 4 - Select Document Outpu	it Type			
Select a Document Output f	rom the list below			
Output Type	Stylesheet			
Word	D:\TPE\styles\simpleStylesheet.dot			
Select stylesheet				
D:\TPE\styles\simpleStylesheet.dot Browse				
Disco slisk Ward to continue				
ſ	ICASE CICK MEXT TO CONTINUE			
		(Back Next) Cancel		

Figure 24

For each document output you can specify the stylesheet to be used (where applicable). To assign a stylesheet to an output format you need to do the following:

- select the output format in the list
- browse for the desired stylesheet

Document generation options

Once the data sources and output formats are configured you are prompted with options for running the document generation. You can:

- publish the document immediately
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- · create a document specification based on the options made in the wizard
- both

TPE - Publish Document Wizard - DOORS	×
Step 5 - Select Document Generation Options	
✓ Publish document now	
Save document specification for scheduled publishing	
File Name:	Browse
Ignore non critical errors	
Convert OLE's to static images	
Please click 'Next' to continue	
	<back next=""> Cancel</back>

Figure 25

NOTE If "Convert OLE's to static images" is checked, the Word output document, if selected, will contain images instead of OLEs.

NOTE If "Convert OLE's to static images" is unchecked, you need to run the "insertOLEs" macro to get the OLEs embedded in the Word output.

Summary page

Before closing the TPE Publish wizard will display a summary page with all the choices made.



Figure 26

Press Finish to complete the wizard and start the document generation (if option selected).

NOTE The document generation is started as a separate process from DOORS but TPE will use the existing DOORS instance to extract data.

Appendix: Notices

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