

Converter SPIRIT XML to PER Commands

TRACE32 Online Help

TRACE32 Directory

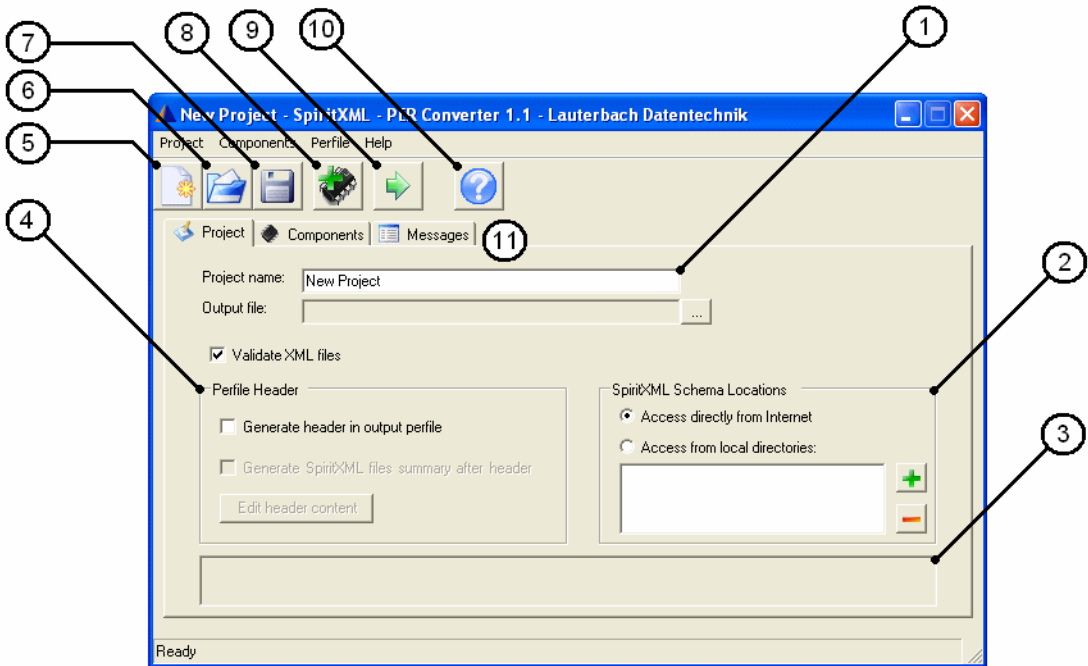
TRACE32 Index

TRACE32 Documents	
Peripheral Files	
Converter SPIRIT XML to PER Commands	1
Introduction	3
Main view	4
Component properties	7
Start processing	9

Introduction

This document describes using SpiritXML - PER Converter. The executable file can be found in the TRACE32 installation directory under `~/demo/tools/ipxact_converter`.

SpiritXML software is used to convert XML format data into a Perfile format data. The files describing the peripheral modules using XML standard are converted to a PER format compatible with TRACE32.



1. Project name & Output Perfile location.

Name of the project should be given in “Project name” field. Location where the perfile will be generated should be given in the “Output” field.

2. SpiritXML Schema Locations.

Access directly from Internet:

If this option is selected, SpiritXML Schema files are accessed directly from SPIRIT Consortium Website, each time the Perfile is generated. The oldest version available from this location is 1.2. Perfile generating may take long time if Internet connection is slow.

Access from local directories:

If this option is selected, SpiritXML Schema files are accessed from local directories listed below (List of SpiritXML Schemas locations). To add a new location, click on the “green plus”. To remove a selected location, click on the “red minus”.

3. Help.

4. Perfile Header options:

Generate header in output perfile:

If this option is set, generated Perfile contains a header.

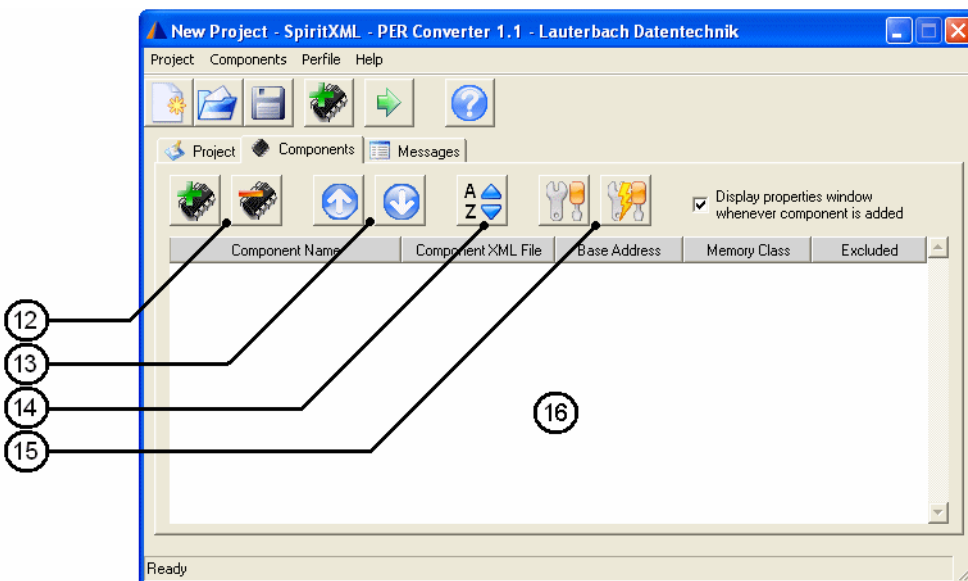
Generate SpiritXML files summary after header:

If this option is set, Perfile header contains information about SpiritXML files used to generate Perfile.

Edit header content Button:

Launch header content editor. In editor is possible available variables changed to values when header is included to perfile.

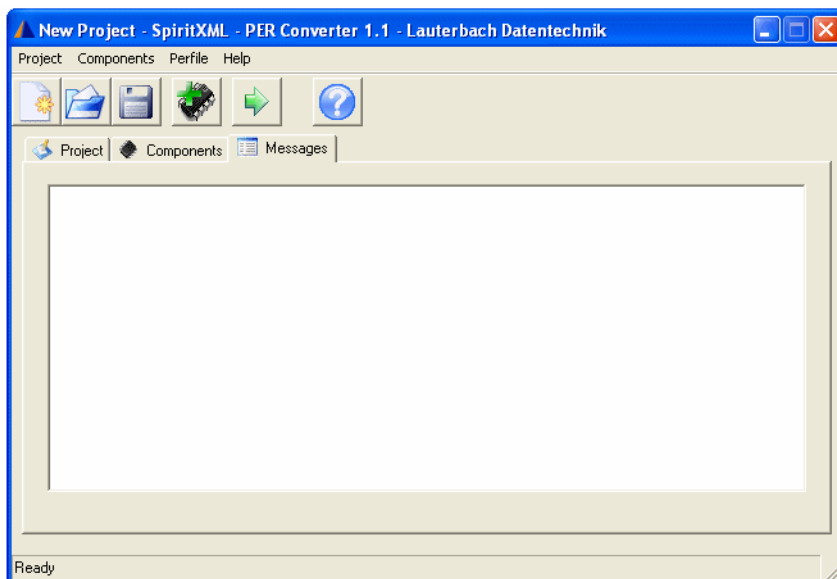
5. New Project. To create a new project, click on this icon or click on tab Project / New Project (Ctrl+n).
6. Open Project. To open the project, click on this icon or click on tab Project / Open Project (Ctrl+o).
7. Save Project. To save the project, click on this icon or click on tab Project / Save Project (Ctrl+s).
8. Add component. To add component, click on this icon or click on tab Components / Add component (Ctrl+a).
9. Start processing. To start data converting, click on this icon or click on tab Perfil / Start processing (F7).
10. Tips. In this field tips and advice are displayed.
11. Bookmarks. In a "Project bookmark" are the main settings for the project. In the "Components bookmark" are settings for the components. In the "Messages bookmark" are information about XML to Perfil data conversion displayed.



12. Add Component / Delete Component:
To add a new Component, click on the "green plus". To remove a selected Component, click on the "red minus".
13. Move Component Up / Move Component Down:
To move Component up, click on the "Up arrow". To move down, click on the "Down arrow".
14. Sort components dialog: Sorting options appears.
15. Properties of selected component / Properties of all components.

16. Components dialog.

In this window information about the conversion of data are displayed.



Component properties

Single Component properties.

In the "General" tab can be changed the following options : component name, path to the component xml file, base address, memory class and checkboxes settings.

In the "Excluded from perfile" checkbox: Setting this option causes component to be skipped when generating perfile.

In the "Automatically open tree with this component is loaded when perfile" checkbox: If enabled, the component TRACE32 tree opens automatically after the peripheral file has been displayed.

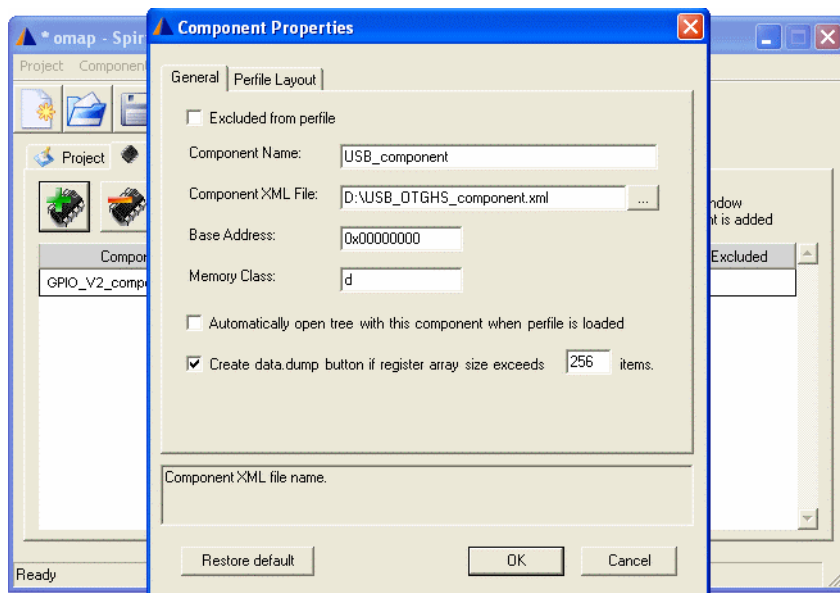
In the "Create button if data.dump register array size exceeds <value> items" checkbox: If enabled, register array of size exceeding the specified number of items will be replaced by data.dump button.

On the "Layout Perfile" You quantity of columns can be changed.

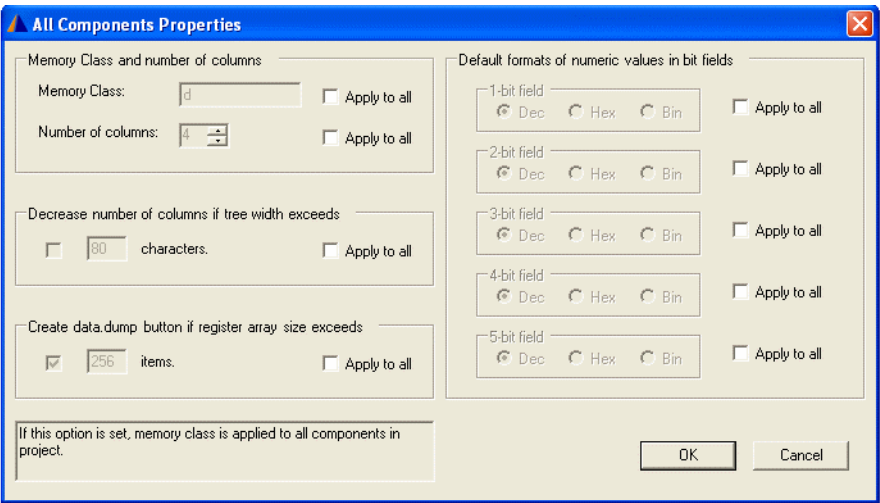
In the "Decrease number of columns if tree width exceeds <value> characters" checkbox: If enabled, the number of columns displayed register of fields will be decreased if the width of the tree exceeds defined number of characters. This option prevents registers from the displayed fields to be not fit in narrow window, making the perfile unreadable.

In the "Default formats of numeric values in bit fields: When selected, all register values of 1 to 5-bit-field which are not directly defined in XML, are displayed in decimal / hexadecimal / binary number format.

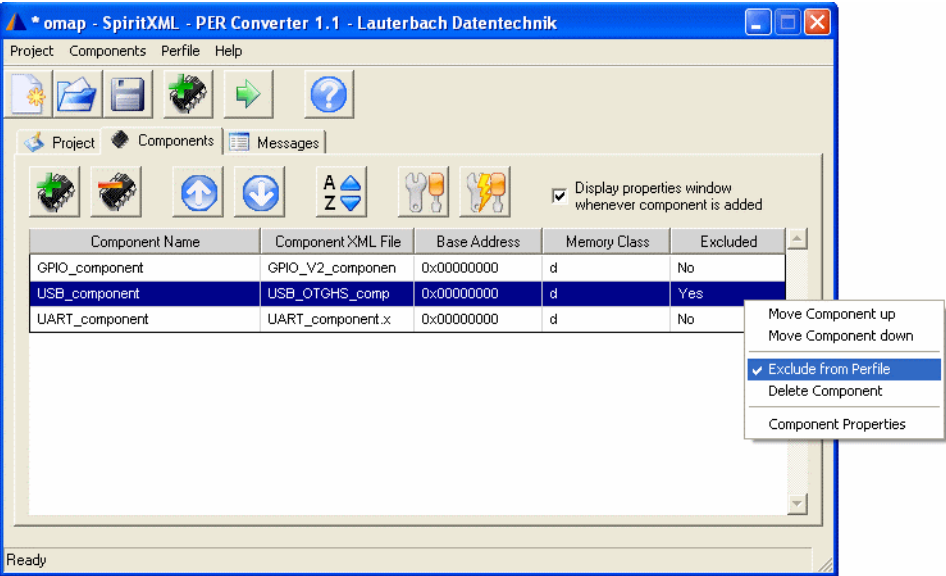
To restore the original settings, click on the "Restore default"



All Component Properties. In this window, the settings are the same as for a single “Component properties”, but the changes are introduced for all components.

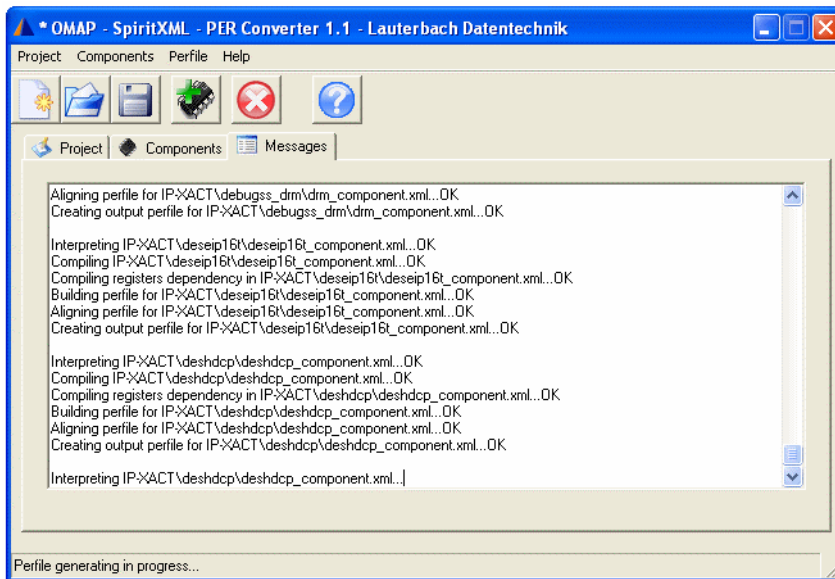


In the dialog box after adding the components their settings can be checked and if necessary enter the next one.



Start processing

After all options are set, conversions can be started. To do this click on the "green arrow" icon or tap F7 key. In the message window information about the conversion are displayed.



Once data processing is completed, a message confirming profile generation appears.

Perfile is created at the location specified in the Output field.

