# SIMOTION

## Frequently asked Questions

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Application example for the consistent creation of test and diagnostics pages in HTML on the basis of an I/O table

IO2HTML

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AL: N ECCN: N



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IO2HTML

### 1 Goal

The present document describes the possibility of how to create consistently test and diagnostics pages in HTML for Simotion, based on a csv file with inputs/outputs that, for instance, has been created by means of EPIan.

The scope of supply includes a script (ImportIOsForHTML.txt) for Simotion Scout that, according to the I/O list in the csv file, creates adequate variables in Simotion and generates an HTML page for giving access to these I/O variables. As the process from the csv file to the HTML page is running automatically, this tool is also suitable for service technicians and start-up engineers without knowledge in programming, who want to check the I/O assignment of a machine.

A download to the SIMOTION device only makes sense by using an Ethernet coupling between SCOUT and device!

This application has been created by means of Simotion V4.1. The HTML page requires a screen resolution of at least 800x600. The application was tested with

• Windows XP SP2 with Internet Explorer 6.0 Sp2

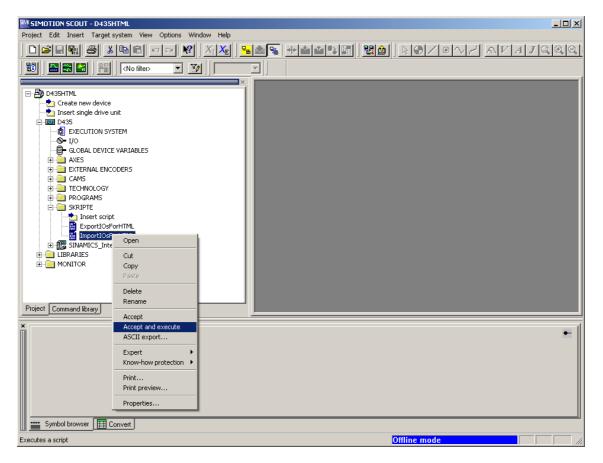


### 2 Process of the automatic creation of a test and diagnostics page

#### 2.1 Importation of the I/O files and insertion into the project

The present paths in Script ImportIOsForHTML indicate D:\XSL. This can always be changed in Script at the according places.

The Script has to be inserted into a Simotion project underneath a device and is only able to run there. The Script can be started by the function "Accept and execute". Please, see the following screenshot:



Note: During the Script process, a program is created and the sequence system in Simotion is changed, so that in version 4.0, Script triggers automatically a separation from the target system (go offline).



Then, the following dialog box opens for the selection of a csv file:

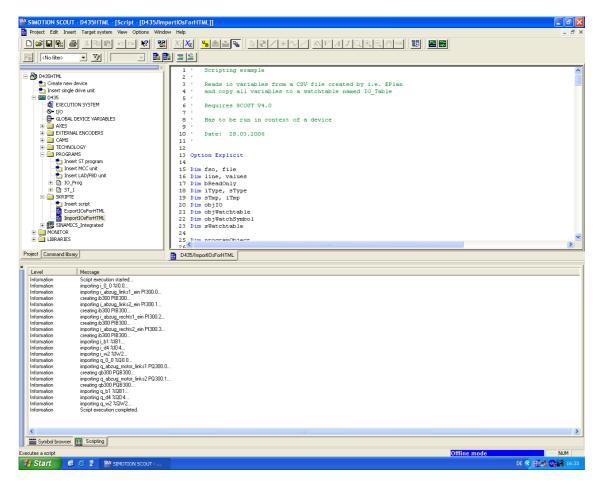
Prove Connect Rayy	Projekt Edit Luser Larget production Wendow Help
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Create new device Total for de fui cuito Dess	
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Level Message	Print Commed Bran
Level Message	r ree: Comercia de Santa de Sa
Information Script execution stated	Level Message
	Information Script execution started
🔤 Symbol browser 🔲 Convert 📳 Scripting	

The format of the csv file must be of the following structure: [Name of the input or output];[address] according to Simotion conventions

Example:
i_0_0;%l0.0
i_withdrawal_left1_ON;PI300.0
i_withdrawal_left2_ON;PI300.1
i_withdrawal_rechts1_ON;PI300.2
i_withdrawal_rechts2_ON;PI300.3
i_b1;%IB1
i_d4;%ID4
i_w2;%IW2
q_0_0;%Q0.0
q_withdrawal_motor_left1;PQ300.0
q_withdrawal_motor_left2;PQ300.1
q_b1;%QB1
q_d4;%QD4
q_w2;%QW2



The successful execution of the Scripts is indicated as follows:



For each input/output in the csv file, a line with the prefix "importing" is indicated in the output window of the Scripting. Especially in case of bit variables beyond the Simotion process image (address > byte 64), an additional byte variable is created (prefix "creating") to avoid an unintentional change of the operating status of the SIMOTION control from RUN to STOP when the system is trying in vain to access to such a variable as the according peripheral is not available.



This is why the following example indicates 16 I/O variables although there are only 14 inputs/outputs in the csv file:

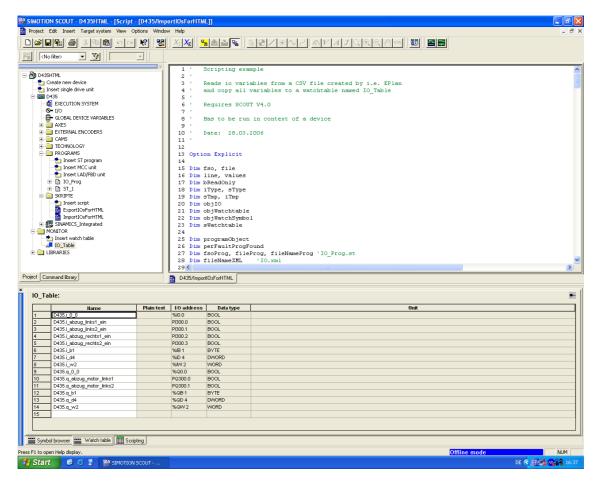
<no filter=""> 💌 ゾ</no>	<b>%</b> 500	<u>]</u> 188  ] <u>2</u> 	K <sub>I</sub> X <sub>E</sub>   <del>P</del>					8		
	<u> </u>									
D435HTML			1 2	Scripting example	2					
🕂 📩 Create new device			3 ' Reads io variables from a CSV file created by i.e. EPlan							
📩 Insert single drive unit			and copy all var:	iables t	o a watchtable name	d IO_Table				
D435		5 '								
EXECUTION SYSTEM			6' I 7'	Requires SCOUT V	4.0					
GLOBAL DEVICE VARIABLES				Has to be run in	context	of a device				
GLOBAL DEVICE VARIABLES			9 1	nas co se run m	CONCEAC	or a acvice				
🕀 🚞 EXTERNAL ENCODERS			10 ' I	Date: 28.03.200	6					
🗄 🛄 CAMS			11 '							
E CHNOLOGY			12							
PROGRAM5     Program     Insert ST program			13 Optic 14	on Explicit						
nsert MCC unit				fso, file						
- 📩 Insert LAD/FBD unit				line, values						
🗄 📑 IO_Prog				oReadOnly						
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SKRIPTE     Market script			19 Dim s 20 Dim c	sTmp, iTmp						
ExportIOsForHTML				objWatchtable						
ExportIOsForHTML ImportIOsForHTML				objWatchSymbol						
ImportIOsForHIML				23 Dim sWatchtable						
🗄 🚼 SINAMICS_Integrated			23 <b>Dim</b> s	sWatchtable						
SINAMICS_Integrated     MONITOR			23 Dim s 24							
SINAMICS_Integrated     MONITOR			23 Dim s 24 25 Dim p	sWatchtable programObject						
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All I/O variables are created with process image BackgroundTask and strategy default value 0.

Note: Only those types of data are supported that are typically provided by the I/O terminals such as bit sizes (DI, DO), words (AI, AO) or double words (counters). Byte arrays are NOT supported!



A watch table (here: Offline mode) with the relevant I/O variable is created, too:

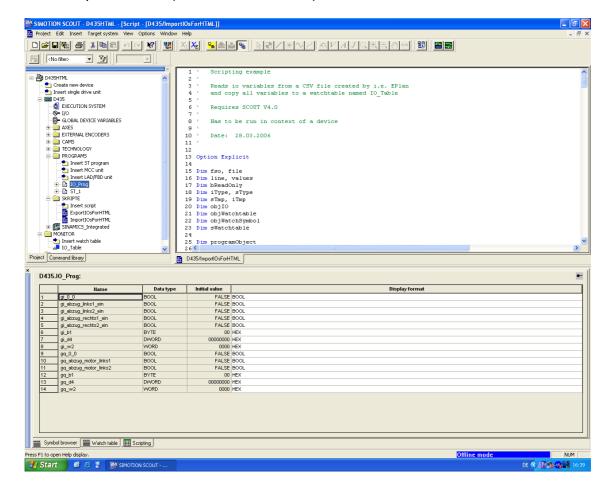


The watch table I/O\_table permits a compact view on the I/O variables and can also still be used in the project with the IBN.

Note: This watch table is used within the Script as the basis for creating the XML file and the HTML file.



As in Simotion V4.0 the access to I/O variables via OPC-XML interface is not supported, a ST-source with global variable is created according to the I/O variables (with an additional prefix "g") and in the source, a program is created that copies the inputs to the corresponding ST-input variables and the according ST-output variables to the outputs as well. (Picture: Offline mode)



IO2HTML

```
Example: I/O_Prog.st
INTERFACE
   VAR_GLOBAL
        gi_0_0
                                  : BOOL;
       gi_withdrawal_left1_ON : BOOL;
        gi_b1
                                   : BYTE;
        gi_d4
                                 : DWORD;
                                 : WORD;
        gi_w2
        gq_0_0
                                  : BOOL;
        gq_withdrawal_motor_left1 : BOOL;
gq_withdrawal_motor_left2 : BOOL;
        gq_withdrawal_motor_left2
                                 : BYTE;
        qq bl
        gq_d4
                                  : DWORD;
        gq_w2
                                  : WORD;
    END_VAR
   PROGRAM PerFault;
   PROGRAM CopyInOut;
END_INTERFACE
IMPLEMENTATION
   PROGRAM PerFault
        ;
    END_PROGRAM
   PROGRAM CopyInOut
        gi_0_0 := i_0_0;
        gi_withdrawal_left1_ON := i_withdrawal_left1_ON;
        gi_withdrawal_left2_ON := i_withdrawal_left2_ON;
gi_withdrawal_right1_ON := i_withdrawal_right1_ON;
        gi_withdrawal_right2_ON := i_withdrawal_right2_ON;
        gi_b1 := i_b1;
        gi_d4 := i_d4;
        gi_w2 := i_w2;
        q_0_0 := gq_0_0;
        q_withdrawal_motor_left1 := gq_withdrawal_motor_left1;
        q_withdrawal_motor_left2 := gq_withdrawal_motor_left2;
        q_b1 := gq_b1;
        q_d4 := gq_d4;
        q_w2 := gq_w2;
   END_PROGRAM
END_IMPLEMENTATION
```

Note: The program PerFault only serves to avoid that the Simotion control changes into the operating status STOP in case of accessing to not existing peripherals.



The sequence system is changed by the Script:

SINOTION SCOUT - D435HTML - [D435 - EXECUTION SYSTEM]							
🕼 Project Edit Inset Target system View Options Window Help - 🗗 X							
DELE S MEE DO 12 XX SALES REZEVE AVAILED. 30 EE							
State No filter>							
Drashmu     Create new device     Create new device     Drash new device     Drash new device     Drash     Dra	MotonTask, 26     MotonTask, 27     MotonTask, 28     MotonTask, 29     MotonTask, 29     MotonTask, 20     MotonTask, 30     MotonTask, 30     MotonTask, 32     BadgroundTask     ST Juby Lest     Structure State     Software State	BackgroundTask  Program assignment   Task configuration    Programs (number of applications):  Programs used:  ID_Programs(II)	tinout				
Project Command library	D435/ImportIOsForHTML 👩 D435						
× Level Message							
Information         Script security attack.           Information         inporting 1_absatix1_tim P300.0           Information         inporting 1_absatix1_tim P300.0           Information         inporting 1_absatix1_tim P300.0           Information         inporting 1_absatix1_tim P300.0           Information         inporting 1_absatix1_tim P300.1           Information         inporting 1_absatix1_tim P300.2           Information         inporting 1_absatextI_1 and P300.2           Information         inporting 1_absatextI_1 and P300.2           Information         inporting 1_absatextI_1 and P300.2           Information         inporting 1_absatextI_2 and P300.3           Information         inporting 1_absatextI_2           Information         inporting 1_absatextI_2.	her	4	2				
Press F1 to open help display.							
Start @ Ø 2 8 K SIMOTION SCOUT			DE C 20 0 00 00 16:42				

The program CopyInOut in the source I/O\_Prog is assigned to the BackgroundTask. The program PerFault is assigned to the PeripheralFaultTask.

### 2.2 Exportation of the I/O tables into an XML file

An HTML file is created according to the variables in the watch table. In addition, the XML file requires a dictionary (io.dtd) and a formatting instruction (io.xsl) in the same directory.

The created HTML document (io.htm) is renamed as user.htm by means of a batch file (user.bat) and is transferred via file transfer protocol (ftp) to the directory \user\simotion\hmi\files on the Simotion memory card in the Simotion control. For this, it is necessary that the PC is connected to the control via Ethernet cabling. The example uses the Simotion standard IP address: 169.254.11.22.

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### 3 Description of the test and diagnostics page

	Internet Explorer provided by Ansicht <u>F</u> avoriten E <u>x</u> tras			
	<ul> <li>Misicit Cavoiter C<u>u</u>tas</li> <li>Misicit Cavoiter C<u>u</u>tas</li> </ul>			
	/169.254.11.22/FILES/USER.HTM			💌 🔁 We
act i	und Diagnoses	ito		
cəi- i	ind Diagnoses	ite		
ingäng	je: An=true, Aus=fa	se	Ausgänge: An=true, /	Aus=false
false	i_0_0		q_0_0	false schreiben
false	i_abzug_links1_ein		q_abzug_motor_links1	false schreiben
false	i_abzug_links2_ein			
false	i_abzug_rechts1_ein		q_abzug_motor_links2	false schreiben
false	i_abzug_rechts2_ein			
0	i_b1		q_b1	0 schreiben
0	i_d4		q_d4	0 schreiben
0	i_w2			
			q_w2	0 schreiben
				l
]				internet

The address of the test and diagnostics page is as follows: http://169.254.11.22/FILES/USER.HTM or the IP address has to be adapted to the real control.

On the left side, you can find a list of the inputs and their current value. In addition, there is the possibility for the outputs on the right side to change the value and to write into the control.

- Note: True means that the input/output is ON; False means that the input/output is OFF.
- Note: The content of the surface is updated every 15 seconds. However, this can be adapted in the Script.



### Appendix

### 4 Project data / Scope of supply

- Simotion Script: ImportIOsForHTML.txt
- Simotion Script :ExportIOsForHTML.txt
- Example csv-file including some inputs/outputs: I/O.csv
- Dictionary and xls file for the indication via XML: io.dtd, io.xsl
- Archive of a project for Simotion D435: D435html.zip
- List file for remote control ftp in a batch file: ftp.lst
- USER.BAT for the transmission of the HTML page to SIMOTION

### 5 Revision

Table 5-1: Revision / Authors

Version	Date/Revision			
1.1	12/06/2006 based on new template			

IO2HTML

### 6 Contact partners

Application Center

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