
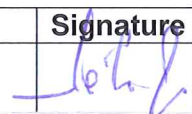


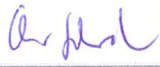
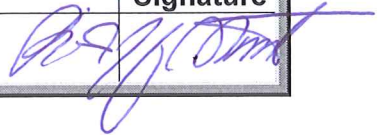
## TOOL SUMMARY FORM (PER TOOL)

[illegible]


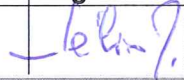
## SINGLE TEST RECORD FORM

<b>Test No: 1</b>	<b>Profile edition No: 1</b>	<b>Tool: PowerFactory 14.0</b>	<b>Score: 4</b>
<b>Test files:</b>			
<b>Import</b>			<b>Export</b>
Profile_Edition_1\Boundary MAS\110504_ENTSO-E_Boundary_Set_4_May_2011_EU.zip			
Profile_Edition_1\ENTSO-E_16\9_11July2011\ENTSOE16nodes_part_NL_v11July.zip			
<b>Comments/Results/Issues:</b>			
<p>Import without errors;          Loadflow successfully calculated;          Results on the slacknode is 597.5 MW and 180.7 MVar which matches the 2010 IOP results</p> <p>The parameters were checked (lines, busbars, loads, machine)          A screenshot was made and stored on server with the Line Data (LineData.png) on the server path of Digsilent</p>			
<b>Supplementary files:</b>			
..1st_Profile\test01\LineData.png			
<b>Date</b>	<b>Vendor</b>	<b>Signature</b>	<b>Test witness</b>
13/jul/2011	<b>Name</b> Christoph Schmid DiSILENT	<b>Signature</b> 	<b>Name</b> Nélio Machado REN
			<b>Signature</b> 

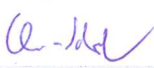

## SINGLE TEST RECORD FORM

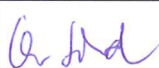
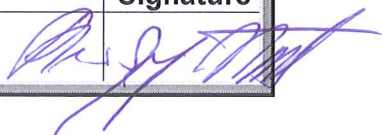
<b>Test No: 2</b>	<b>Profile edition No: 1</b>	<b>Tool: PowerFactory 14.0</b>	<b>Score: 4</b>
<b>Test files:</b>			
<b>Import</b>		<b>Export</b>	
Profile_Edition_1\Boundary MAS\110504_ENTSO-E_Boundary_Set_4_May_2011_EU.zip		\DigSilent\1st_profile\test02\ENTSO-E_16_PF_12J11h_NL.zip	
Profile_Edition_1\ENTSO-E_16\9_11July2011\ENTSOE16nodes_part_NL_v11July.zip			
<b>Comments/Results/Issues:</b>			
Exported ZIP file without errors;			
Validation on CimSpy on EQ, TP and SV without errors.			
Compared the RDFids of the exported file with the original file with success.			
A screenshot was made on the CimSpy validation of EQ (Validation_EQ.png) and stored on the server path of Digsilent			
<b>Supplementary files:</b>			
..1st_Profile\test02\Test 2 2nd in CIMDesk.jpg			
<b>Date</b>	<b>Vendor</b>	<b>Signature</b>	<b>Test witness</b>
15/jul/2011	<b>Name</b> Christoph Schmid DiSILENT	<b>Signature</b> 	<b>Name</b> Vladimir Milić EMS
			<b>Signature</b> 



<b>Test No: 3</b>	<b>Profile edition No: 1</b>	<b>Tool: PowerFactory 14.0</b>	<b>Score: 4</b>
<b>Test files:</b>			
<b>Import</b>			<b>Export</b>
Profile_Edition_1\Boundary MAS\110504_ENTSO-E_Boundary_Set_4_May_2011_EU.zip			
Profile_Edition_1\ENTSO-E_16\9_11July2011\ENTSOE16nodes_part_BE_v11July.zip			
<b>Comments/Results/Issues:</b>			
<p>Imported files used on 7.2.1 without errors; Loadflow successfully calculated;</p> <p>A snapshot was made (ldfresults_BE.png) of the machines values.</p> <p>These results were compared with the results obtained by ODMS Siemens (ODMS_Loadflow_BE.pdf) and the difference was less than 0.1MW/MVar.</p>			
<b>Supplementary files:</b>			
..1st_Profile\test03\ldfresults_BE.png ..1st_Profile\test03\ ODMS_Loadflow_BE.pdf			
<b>Date</b>	<b>Vendor</b>	<b>Signature</b>	<b>Test witness</b>
	<b>Name</b>	<b>Name</b>	<b>Signature</b>
12/jul/2011	Christoph Schmid DiSILENT		Nélio Machado REN 

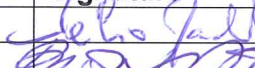

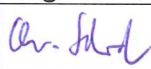

## SINGLE TEST RECORD FORM

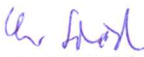
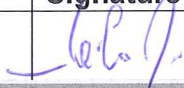
<b>Test No: 4</b>	<b>Profile edition No: 1</b>	<b>Tool: PowerFactory 14.0</b>	<b>Score: 4</b>
<b>Test files:</b>			
<b>Import</b>		<b>Export</b>	
Profile_Edition_1\Boundary MAS\110504_ENTSO-E_Boundary_Set_4_May_2011_EU.zip		\DigSilent\ 1st_profile\test04\ENTSO-E_16_Pf_15J13h_NL_SV.xml	
Profile_Edition_1\ENTSO-E_16\9_11July2011\ENTSOE16nodes_part_NL_v11July.zip		\DigSilent\ 1st_profile\test04\ENTSO-E_16_Pf_15J13h_NL_TP.xml	
<b>Comments/Results/Issues:</b>			
<p>Import without errors;  Loadflow successfully calculated;  Topology change: Opened B1 busbar coupler  Loadflow successfully calculated;  Checked the results and are coherent;  Snapshot with the new results: ldfresults_NL.png</p> <p>Exported TP and SV files and stored on file server.</p> <p>Validation successfully done on CIMDesk.  Snapshot of the validation: test 4 1st in CIMDesk.jpg</p>			
<b>Supplementary files:</b>			
ENTSO-E_2nd_IOP_July2011\DIgSILENT\1st_Profile\Test04\ test 4 1st in CIMDesk.jpg			
<b>Date</b>	<b>Vendor</b>	<b>Test witness</b>	
	<b>Name</b>	<b>Signature</b>	<b>Name</b>
15/jul/2011	Christoph Schmid DiSILENT		Vladimir Milić EMS
			

<b>Test No: 5</b>	<b>Profile edition No: 1</b>	<b>Tool: PowerFactory 14.0</b>	<b>Score: 4</b>
<b>Test files:</b>			
<b>Import</b>		<b>Export</b>	
Profile_Edition_1\Boundary MAS\110504_ENTSO-E_Boundary_Set_4_May_2011_EU.zip		\\172.16.12.4\Public\ENTSO-E_2nd_IOP_July2011\DIgSILENT\1st_Profile\Test05\ ENTSO-E_16_PF_15J14h_NL_SV.xml	
Profile_Edition_1\ENTSO-E_16\9_11July2011\ENTSOE16nodes_part_NL_v11July.zip			
<b>Comments/Results/Issues:</b>			
<p>Import without errors;  Change load "Tennet 1" from 10 to 20 MW and 10 to 20 Mvar  Change generation on "W1" from 140 to 145 MW (PV)  The generation on the slack (G1) was 597.4MW  Running the loadflow the generation on the slack (G1) is now 602.5 MW, which is coherent.  Snapshot of the validation: ldfresults_NL.png</p> <p>Exported SV file and stored on file server.</p> <p>Validation successfully done on CIMDesk.  Snapshot of the validation: test 5 1st in CIMDesk.jpg</p>			
<b>Supplementary files:</b>			
\\172.16.12.4\Public\ENTSO-E_2nd_IOP_July2011\DIgSILENT\1st_Profile\Test05\ test 5 1st in CIMDesk.jpg \\172.16.12.4\Public\ENTSO-E_2nd_IOP_July2011\DIgSILENT\1st_Profile\Test05\ldfresults_NL.png			
<b>Date</b>	<b>Vendor</b>	<b>Test witness</b>	
	<b>Name</b>	<b>Signature</b>	<b>Name</b>
15/jul/2011	Christoph Schmid DiSILENT		Vladimir Milić EMS
			

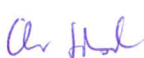
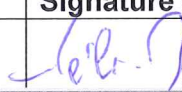



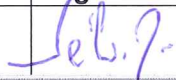
## TOOL SUMMARY FORM (PER TOOL)

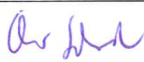

<b>Vendor/Tool: DlgSILENT GmbH / PowerFactory 14.1</b>						<b>Profile edition No:2</b>			
<b>Witnessed by</b>									
<b>Name</b>		<b>Signature</b>		<b>Name</b>		<b>Signature</b>			
1. Nélio Machado, REN				9.					
2. Vladimir Milić, EMS				10.					
3.				11.					
4.				12.					
5.				13.					
6.				14.					
7.				15.					
8.				16.					
<b>Performed tests</b>									
Test No	Score	Test No	Score	Test No	Score	Test No	Score	Test No	Score
1_1	4	15	4						
1_2	4	16	4						
2	4	17	4						
3_1	4	32	4						
3_2	4	32-2	4						
3_3	4	28	4						
3_4	4								
4	4								
5	4								
6	4								
7	4								
8_1	4								
8_2	4								
9	3								
10	4								
<b>Comments:</b>									
<b>Date</b>		<b>Vendor</b>		<b>ENTSO-E</b>					
15/jul/2011		<b>Name</b>		<b>Signature</b>		<b>Name</b>		<b>Signature</b>	
		Christoph Schmid				Chaudhary-Iranov			

<b>Test No: 1_1</b>	<b>Profile edition No: 2</b>	<b>Tool: PowerFactory 14.1</b>	<b>Score: 4</b>
<b>Test files:</b>			
<b>Import</b>			<b>Export</b>
Profile_Edition_2\Boundary MAS\6_28June2011\ENTSO-E_Boundary_Set_28_June_2011_2ndEdition_EU.zip			
Profile_Edition_2\ENTSO-E_16\12_11July2011\ENTSOE_16_NL.zip			
<b>Comments/Results/Issues:</b>			
<p>Import without errors;          Loadflow successfully calculated;          Results on the slacknode is 597.5 MW and 180.7 MVar which matches the 2010 IOP results          The name conventions and parameters were checked (lines, busbars, loads)          A screenshot was made and stored on server with the Line Data (7.2.1.LineData.png) on the server path of Digsilent</p>			
<b>Supplementary files:</b>			
7.2.1.LineData.png			
<b>Date</b>	<b>Vendor</b>	<b>Signature</b>	<b>Test witness</b>
	<b>Name</b>		<b>Name</b>
12/jul/2011	Christoph Schmid DiSILENT		Nélio Machado REN
			<b>Signature</b>
			

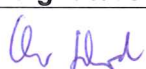


<b>Test No: 1_2</b>	<b>Profile edition No: 2</b>	<b>Tool: PowerFactory 14.1</b>	<b>Score: 4</b>
<b>Test files:</b>			
<b>Import</b>			<b>Export</b>
Profile_Edition_2\Boundary MAS\6_28June2011ENTSO-E_Boundary_Set_28_June_2011_2ndEdition_EU.zip			
Siemens\2nd_profile\Test2\Run2\ENTSOE_2_NL_OD_11J11h.zip			
<b>Comments/Results/Issues:</b>			
<p>Import without errors;          Loadflow successfully calculated;          Results on the slacknode is 597.5 MW and 180.7 MVar which matches the 2010 IOP results          The name conventions and parameters were checked (lines, busbars, loads)</p> <p>A screenshot was made and stored on server with the Line Data (LineData.png) on the server path of Digsilent</p>			
<b>Supplementary files:</b>			
..\test01\ODMS\LineData.png			
<b>Date</b>	<b>Vendor</b>	<b>Signature</b>	<b>Test witness</b>
12/jul/2011	<b>Name</b> Christoph Schmid DiSILENT	<b>Signature</b> 	<b>Name</b> Nélio Machado REN
			<b>Signature</b> 

<b>Test No: 2</b>	<b>Profile edition No: 2</b>	<b>Tool: PowerFactory 14.1</b>	<b>Score: 4</b>
<b>Test files:</b>			
<b>Import</b>		<b>Export</b>	
Profile_Edition_2\Boundary MAS\6_28June2011\ENTSO- E_Boundary_Set_28_June_2011_2ndEdition_EU.zip		ENTSO-E_2 <sup>nd</sup> _IOP_Jul2011\DigSilent\ 2nd_profile\test02\ENTSO- E_16_Pf_12J11h_NL.zip	
Profile_Edition_2\ENTSO- E_16\12_11July2011\ENTSOE_16_NL.zip			
<b>Comments/Results/Issues:</b>			
Exported ZIP file without errors;			
Validation on CimSpy on EQ, TP and SV without errors.			
Compared the RDFids of the exported file with the original file with success.			
A screenshot was made on the CimSpy validation of EQ (Validation_EQ.png) and stored on the server path of Digsilent			
<b>Supplementary files:</b>			
..\test02\Validation_EQ.png			
<b>Date</b>	<b>Vendor</b>	<b>Signature</b>	<b>Test witness</b>
12/jul/2011	<b>Name</b> Christoph Schmid DiSILENT	<b>Signature</b> 	<b>Name</b> Nélio Machado REN
			<b>Signature</b> 

<b>Test No: 3_1</b>	<b>Profile edition No: 2</b>	<b>Tool: PowerFactory 14.1</b>	<b>Score: 4</b>
<b>Test files:</b>			
<b>Import</b>			<b>Export</b>
Profile_Edition_2\Boundary MAS\6_28June2011ENTSO-E_Boundary_Set_28_June_2011_2ndEdition_EU.zip			
Profile_Edition_2\ENTSO-E_16\12_11July2011\ENTSOE_16_BE.zip			
<b>Comments/Results/Issues:</b>			
<p>Imported files used on 7.2.1 without errors; Loadflow successfully calculated;</p> <p>A snapshot was made (ldfresults_BE.png) of the machines values.</p> <p>These results were compared with the results obtained by ODMS Siemens (ODMS_Loadflow_BE.jpg) and the difference was less than 0.1MW/MVar.</p>			
<b>Supplementary files:</b>			
..\test03\ldfresults_BE.png ..\test03\ ODMS_Loadflow_BE.jpg			
<b>Date</b>	<b>Vendor</b>	<b>Test witness</b>	
	<b>Name</b>	<b>Signature</b>	<b>Signature</b>
12/jul/2011	Christoph Schmid DiSILENT		Nélio Machado REN 



<b>Test No: 3_2</b>	<b>Profile edition No: 2</b>	<b>Tool: PowerFactory 14.1</b>	<b>Score: 4</b>
<b>Test files:</b>			
<b>Import</b>		<b>Export</b>	
Profile_Edition_2\Boundary MAS\6_28June2011ENTSO- E_Boundary_Set_28_June_2011_2ndEdition_EU.zip  \\172.16.12.4\Public\ENTSO- E_2nd_IOP_July2011\DMS_Group_EKC\2nd_Profile\Test2.1\ENTSOE16_BE_TN _11J17h30			
<b>Comments/Results/Issues:</b>			
<p>Imported zip files created by TNA - DMS Group EKC without errors;          Loadflow successfully calculated;</p> <p>A snapshot was made (ldfresults_BE.png) of the machines values.</p> <p>These results were compared with the results obtained by TNA - DMS Group EKC          (ODMS_S1_NL_Loadflow.pdf) and the difference was less than 0,5 MW and 0,5 MVar</p>			
<b>Supplementary files:</b>			
\\172.16.12.4\Public\ENTSO-E_2nd_IOP_July2011\DlgSILENT\2nd_Profile\Test03\DMS\ Test3.1_c_2sc_TN_12J14h45.jpg \\172.16.12.4\Public\ENTSO-E_2nd_IOP_July2011\DlgSILENT\2nd_Profile\Test03\DMS\ ldfresults_BE.jpg			
<b>Date</b>	<b>Vendor</b>	<b>Signature</b>	<b>Test witness</b>
14/jul/2011	Name Christoph Schmid DiSILENT	Signature 	Name Vladimir Milić EMS
			Signature 