






## SINGLE TEST RECORD FORM

<b>Test No:</b> 1_1	<b>Profile edition No:</b> 2	<b>Tool:</b> ODMS	<b>Score:</b> 4
<b>Test files:</b>			
<b>Import</b>		<b>Export</b>	
ENTSO- E_Boundary_Set_28_June_2011_2ndEdition_EU.zip ENTSOE_16_BE.zip			
<b>Comments/Results/Issues:</b>			
<p>Imported the boundary zip file and then the BE MAS zip file.          Run load flow. Result is shown in the attached file.</p> <p>We check the generator G1 in substation PP_Brussels\PPBRUG10</p> <p>Nominal P = 199</p>			
<b>Supplementary files:</b>			
 Loadflow			
<b>Date</b>	<b>Vendor</b>	<b>Test witness</b>	
2011-07-11	<b>Name</b>	<b>Name</b>	<b>Signature</b>
	Michael Ford	Svein Olsen	


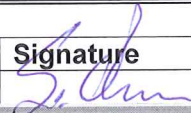
## SINGLE TEST RECORD FORM

<b>Test No: 1_2</b>	<b>Profile edition No: 2</b>	<b>Tool: ODMS</b>	<b>Score: 4</b>
<b>Test files:</b>			
<b>Import</b>		<b>Export</b>	
ENTSO- E_Boundary_Set_28_June_2011_2ndEdition_EU.zip ENTISOE_16_BE.zip			
<b>Comments/Results/Issues:</b>			
<p>Imported the boundary zip file and then the NL MAS zip file.          Run load flow. Result is shown in the attached file.</p> <p>We check the generator Transformer T1 under substation PP_AMSTERDAM</p> <p>PowerTransformer.Winding.r=1.392</p>			
<b>Supplementary files:</b>			
 Loadflow			
<b>Date</b>	<b>Vendor</b>	<b>Signature</b>	<b>Test witness</b>
2011-07-11	<b>Name</b>	<b>Name</b>	<b>Signature</b>
	Michael Ford	Svein Olsen	

## SINGLE TEST RECORD FORM


<b>Test No: 2_1</b>	<b>Profile edition No: 2</b>	<b>Tool: ODMS</b>	<b>Score: 4</b>
<b>Test files:</b>			
<b>Import</b>		<b>Export</b>	
ENTSO- E_Boundary_Set_28_June_2011_2ndEdition_EU.zip ENTSOE_16_BE.zip		ENTSOE_2_BE_OD_11J11h.zip (ENTSOE_2_BE_ OD_11J11h_EQ.xml) (ENTSOE_2_BE_ OD_11J11h_TP.xml) (ENTSOE_2_BE_ OD_11J11h_SV.xml) (ENTSOE_2_BE_ OD_11J11h_DY.xml)	
<b>Comments/Results/Issues:</b>			
<p>Imported the boundary zip file and then the BE MAS zip file.          The exported file was check with CIMdesk. The result is shown in the attached file          "CIMdesk_EQ_Validation.bmp".</p> <p>The error reported for EQ is the same as for the original file.          table.          CIMdesk report error on the TP file, but that is due to the boundary connections. The file is          correct.</p> <p>We check the data for ACLineSegment "DFG-THY 1" and found it to match. See attached file          "Instance Comparison.txt"</p>			
<b>Supplementary files:</b>			
<b>Date</b>	<b>Vendor</b>	<b>Test witness</b>	
2011-07-11	<b>Name</b>	<b>Signature</b>	<b>Signature</b>
	Michael Ford		Svein Olsen 

## SINGLE TEST RECORD FORM



<b>Test No: 2_2</b>	<b>Profile edition No: 2</b>	<b>Tool: ODMS</b>	<b>Score: 4</b>
<b>Test files:</b>			
<b>Import</b>		<b>Export</b>	
ENTSO- E_Boundary_Set_28_June_2011_2ndEdition_EU .zip ENTSOE_NL.zip		ENTSOE_2_NL_OD_11J11h.zip (ENTSOE_2_NL_11J11h_NL_OD_EQ.x ml) (ENTSOE_2_NL_11J11h_NL_OD_TP.x ml) (ENTSOE_2_NL_11J11h_NL_OD_SV.x ml) (ENTSOE_2_NL_11J11h_NL_OD_DY.x ml)	
<b>Comments/Results/Issues:</b>			
<p>Imported the boundary zip file and then the NL MAS zip file.</p> <p>The exported file was check with CIMdesk. The result is shown in the attached file "CIMdesk_EQ_Validation.bmp".</p> <p>The errors reported are the same as for the original file.</p> <p>We check the data for RegulatingControl _c1d5c08a8f8011e08e4d00247eb1f55e and found it to match. See attached file "Instance Comparison.txt"</p>			
<b>Supplementary files:</b>			
<b>Date</b>	<b>Vendor</b>	<b>Test witness</b>	
2011-07-11	<b>Name</b>	<b>Signature</b>	<b>Name</b>
	Michael Ford		Svein Olsen
			



## SINGLE TEST RECORD FORM

<b>Test No: 3_1</b>	<b>Profile edition No: 2</b>	<b>Tool: ODMS</b>	<b>Score: 4</b>																							
<b>Test files:</b>																										
<b>Import</b>		<b>Export</b>																								
ENTSO- E_Boundary_Set_28_June_2011_2ndEdition_EU.zip ENTSOE_16_BE.zip																										
<b>Comments/Results/Issues:</b>																										
<p>Imported the boundary zip file and then the BE MAS zip file.</p> <p>We compare the load flow result from BCP NEPLAN (NEPLAN_Loadflow_BE) with the result from ODMS (ODMS_Loadflow_BE).</p> <p>The following nodes were checked:</p> <table border="1"> <thead> <tr> <th></th> <th></th> <th>ODMS</th> <th>NEPLAN</th> <th>delta</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Node F5</td> <td>Q [MVar]:</td> <td>-100.2</td> <td>-100.3</td> <td>0.1%</td> </tr> <tr> <td>U [kV]:</td> <td>10.98</td> <td>10.98</td> <td>0.0%</td> </tr> <tr> <td rowspan="2">Node S4</td> <td>Q [MVar]:</td> <td>18.77</td> <td>18.72</td> <td>0.3%</td> </tr> <tr> <td>U [kV]:</td> <td>21.987</td> <td>21.987</td> <td>0.0%</td> </tr> </tbody> </table> <p>The reason for the tiny difference could lie in the convergence tolerance – ACCEPTABLE!</p>						ODMS	NEPLAN	delta	Node F5	Q [MVar]:	-100.2	-100.3	0.1%	U [kV]:	10.98	10.98	0.0%	Node S4	Q [MVar]:	18.77	18.72	0.3%	U [kV]:	21.987	21.987	0.0%
		ODMS	NEPLAN	delta																						
Node F5	Q [MVar]:	-100.2	-100.3	0.1%																						
	U [kV]:	10.98	10.98	0.0%																						
Node S4	Q [MVar]:	18.77	18.72	0.3%																						
	U [kV]:	21.987	21.987	0.0%																						
<b>Supplementary files:</b>																										
NEPLAN_Loadflow_BE.PNG ODMS_Loadflow_BE.jpg																										
<b>Date</b>	<b>Vendor</b>	<b>Test witness</b>																								
2011-07-12	<b>Name</b>	<b>Signature</b>	<b>Name</b>																							
	Michael Ford		Andrei Karpatchev																							
			<b>Signature</b>																							



## SINGLE TEST RECORD FORM

<b>Test No:</b> 4_1	<b>Profile edition No:</b> 2	<b>Tool:</b> ODMS	<b>Score:</b> 4
<b>Test files:</b>			
<b>Import</b>		<b>Export</b>	
ENTISO- E_Boundary_Set_28_June_2011_2ndEdition_EU.zip ENTISOE_NL.zip		ENTISOE_16_NL_OD_13J15h.zip (ENTISOE_16_NL_OD_13J15h_TP.xml) (ENTISOE_16_NL_OD_13J15h_SV.xml)	
<b>Comments/Results/Issues:</b>			
<p>Imported the boundary zip file and then the NL MAS zip file.</p> <p>The original load flow is shown in the file "ODMS_S1_NL_Loadflow.pdf".</p> <p>The switch B1 was changes from closed to open. New load flow calculation was done and the result can be seen in "ODMS_S1_NL_Loadflow_after.pdf".</p> <p>Topology (TP) and state variable (SV) were exported as a zip file.</p> <p>The exported file was check with CIMdesk. The results are shown in the attached file starting with "CIMdesk" and include "13J15h". Note CIMdesk report incorrect error.</p> <p>The exported file past the validation.</p>			
<b>Supplementary files:</b>			
ODMS_S1_NL_Loadflow_after.pdf CIMdesk_TP_Validation_OD_13J15h.PNG Loadflow_after.PNG CIMdesk_SV_Validation_OD_13J15h.PNG ODMS_S1_NL_Loadflow.pdf Loadflow_before.PNG			
<b>Date</b>	<b>Vendor</b>	<b>Test witness</b>	
2011-07-13	<b>Name</b>	<b>Signature</b>	<b>Name</b> <b>Signature</b>
	Michael Ford		Svein Olsen 

## SINGLE TEST RECORD FORM

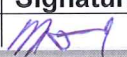

<b>Test No: 5_1</b>	<b>Profile edition No: 2</b>	<b>Tool: ODMS</b>	<b>Score: 4</b>
<b>Test files:</b>			
<b>Import</b>		<b>Export</b>	
ENTSO- E_Boundary_Set_28_June_2011_2ndEdition_EU.zip p ENTSOE_16_BE.zip		ENTSOE_2_BE_OD_12J09h.zip (ENTSOE_2_BE_OD_12J09h_SV.xml) l)	
<b>Comments/Results/Issues:</b>			
<p>Imported the boundary zip file and then the BE MAS zip file.</p> <p>Change the generator G1 Schedule MW from 90 MW to 96 MW and the load L1 Total load MW from 200 to 206.</p> <p>Run a new load flow and exported the result.</p> <p>The exported file was check with CIMdesk. The result is shown in the attached file "CIMdesk_SV_Validation.bmp". No error was found</p>			
<b>Supplementary files:</b>			
Loadflow_afterchanges.pdf Generator_change.PNG Load_change.PNG CIMdesk_SV_Validation.PNG Loadflow.PNG			
<b>Date</b>	<b>Vendor</b>	<b>Signature</b>	<b>Test witness</b>
2011-07-12	<b>Name</b>	<b>Name</b>	<b>Signature</b>
	Michael Ford	Svein Olsen	

## SINGLE TEST RECORD FORM



































<b>Test No: 6_1</b>	<b>Profile edition No: 2</b>	<b>Tool: ODMS</b>	<b>Score: 4</b>
<b>Test files:</b>			
<b>Import</b>		<b>Export</b>	
ENTISO- E_Boundary_Set_28_June_2011_2ndEdition_EU.zip ENTISOE_16_BE.zip ENTISOE_16_BE_OGS_13J9h_SV.zip			
<b>Comments/Results/Issues:</b>			
<p>Imported the boundary zip file and then the BE MAS zip file.</p> <p>We took a screenshot of the equipment not in service, "ODMS_S1_OutofServiceBeforeImport.PNG", that shows that all equipment are in service.</p> <p>We imported the Test No 4 exported file from Open Grid Systems:</p> <ul style="list-style-type: none"> <li>• ENTISOE_16_BE_OGS_13J9h_SV.zip</li> </ul> <p>They imported without any errors.</p> <p>We did a new load flow calculation. Result is shown in the file, ODMS_S1_Loadflow_AfterImport.pdf.</p> <p>We checked that now the line L1 is no longer in operation. See file "ODMS_S1_OutofServiceAfterImport.PNG".</p> <p>This corresponds with the result from Open Grid System, "ModifiedTopologyLoadFlowResults.png"</p>			
<b>Supplementary files:</b>			
ModifiedTopologyLoadFlowResults.png ODMS_S1_Loadflow_AfterImport.pdf ODMS_S1_Loadflow_BeforeImport.PNG ODMS_S1_OutofService_AfterImport.PNG ODMS_S1_OutofService_BeforeImport.PNG			
<b>Date</b>	<b>Vendor</b>	<b>Test witness</b>	
2011-07-12	<b>Name</b>	<b>Signature</b>	<b>Name</b>
	Michael Ford		Svein Olsen
			



## SINGLE TEST RECORD FORM

<b>Test No: 7_1</b>	<b>Profile edition No: 2</b>	<b>Tool: ODMS</b>	<b>Score: 4</b>
<b>Test files:</b>			
<b>Import</b>		<b>Export</b>	
ENTSO- E_Boundary_Set_28_June_2011_2ndEdition_EU.zip ENTSGE_16_BE.zip ENTSGE_16_BE_OGS_13J9h_SV.zip			
<b>Comments/Results/Issues:</b>			
<p>Imported the boundary zip file and then the BE MAS zip file.</p> <p>We took a screenshot of the load flow, "ODMS_S1_Loadflow.pdf".</p> <p>We imported the Test No 5 exported file from Open Grid Systems (OGS):</p> <ul style="list-style-type: none"> <li>• ENTSGE_16_BE_OGS_13J9h_SV.zip</li> </ul> <p>The file imported without any errors.</p> <p>We did a new load flow calculation. Result for loads is shown in the file, "ODMS_S2_Loadflow.pdf".</p> <p>The generator G1 was changes from 90 MW to 100 MW, and the two loads was increased with 5 MW each.</p> <p>The result was compared with the result from Open Grid Systems result shown in the file: "ModifiedSVLoadflowResults.png"</p> <p>The test is passed. The changes are passed over.</p>			
<b>Supplementary files:</b>			
ModifiedSVLoadflowResults.png ODMS_S1_2_Loadflow_Before.pdf ODMS_S2_2_Loadflow_After.pdf			
<b>Date</b>	<b>Vendor</b>	<b>Signature</b>	<b>Test witness</b>
2011-07-12	<b>Name</b>	<b>Signature</b>	<b>Name</b>
	Michael Ford		Svein Olsen
			

## SINGLE TEST RECORD FORM



<b>Test No: 9_1</b>	<b>Profile edition No: 2</b>	<b>Tool: ODMS</b>	<b>Score: 4</b>																						
<b>Test files:</b>																									
<b>Import</b>		<b>Export</b>																							
ENTISO- E_Boundary_Set_28_June_2011_2ndEdition_EU.zip ENTISOE_16_BE.zip ENTISOE_16_NL.zip ENTISOE_16_NL_OD_13J16h.zip		ENTISOE_2_S1_OD_13J16h.zip																							
<b>Comments/Results/Issues:</b>																									
<p>Imported the boundary zip file, the BE MAS zip file and the NL MAS zip file.          Calculated load flow. See attached file for the diagram, "ODMS_Loadflow_Diagram_Solution1.pdf" and table, "ODMS_Loadflow_Table_Solution1.lng" shows the load flow before the topology changes.</p> <p>Exported the full model as one zip file. Verified OK.          The validation files starting with "CIMdesk" and include "13J16h" shows the validation of the exported files. Note that CIMdesk reports incorrect errors.</p> <p>For validation the exported zip file was imported to ODMS without any problem.          Imported the topology and state solution done in Test 4 (with switch B1 changed from closed to open).</p> <p>Calculated the new load flow.          The diagram "ODMS_Loadflow_Diagram_Solution2.pdf" shows the new load flow and that the switch is no open.</p>																									
<b>Supplementary files:</b>																									
<table border="1"> <tr> <td> CIMdesk_OD_13J16h_BE_EQ.PNG</td> <td>13.07.2011 16:43</td> </tr> <tr> <td> CIMdesk_OD_13J16h_BE_TP.PNG</td> <td>13.07.2011 16:43</td> </tr> <tr> <td> CIMdesk_OD_13J16h_EU_EQ.PNG</td> <td>13.07.2011 16:41</td> </tr> <tr> <td> CIMdesk_OD_13J16h_EU_TP.PNG</td> <td>13.07.2011 16:42</td> </tr> <tr> <td> CIMdesk_OD_13J16h_NL_EQ.PNG</td> <td>13.07.2011 16:44</td> </tr> <tr> <td> CIMdesk_OD_13J16h_NL_TP.PNG</td> <td>13.07.2011 16:45</td> </tr> <tr> <td> CIMdesk_OD_13J16h_SV.PNG</td> <td>13.07.2011 16:45</td> </tr> <tr> <td> ODMS_Loadflow_Diagram_Solution1.pdf</td> <td>13.07.2011 14:34</td> </tr> <tr> <td> ODMS_Loadflow_Diagram_Solution2.pdf</td> <td>13.07.2011 17:19</td> </tr> <tr> <td> ODMS_Loadflow_Table_Solution1.PNG</td> <td>12.07.2011 10:39</td> </tr> <tr> <td> ODMS_Loadflow_Table_Solution2.PNG</td> <td>13.07.2011 16:48</td> </tr> </table>				 CIMdesk_OD_13J16h_BE_EQ.PNG	13.07.2011 16:43	 CIMdesk_OD_13J16h_BE_TP.PNG	13.07.2011 16:43	 CIMdesk_OD_13J16h_EU_EQ.PNG	13.07.2011 16:41	 CIMdesk_OD_13J16h_EU_TP.PNG	13.07.2011 16:42	 CIMdesk_OD_13J16h_NL_EQ.PNG	13.07.2011 16:44	 CIMdesk_OD_13J16h_NL_TP.PNG	13.07.2011 16:45	 CIMdesk_OD_13J16h_SV.PNG	13.07.2011 16:45	 ODMS_Loadflow_Diagram_Solution1.pdf	13.07.2011 14:34	 ODMS_Loadflow_Diagram_Solution2.pdf	13.07.2011 17:19	 ODMS_Loadflow_Table_Solution1.PNG	12.07.2011 10:39	 ODMS_Loadflow_Table_Solution2.PNG	13.07.2011 16:48
 CIMdesk_OD_13J16h_BE_EQ.PNG	13.07.2011 16:43																								
 CIMdesk_OD_13J16h_BE_TP.PNG	13.07.2011 16:43																								
 CIMdesk_OD_13J16h_EU_EQ.PNG	13.07.2011 16:41																								
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 ODMS_Loadflow_Diagram_Solution2.pdf	13.07.2011 17:19																								
 ODMS_Loadflow_Table_Solution1.PNG	12.07.2011 10:39																								
 ODMS_Loadflow_Table_Solution2.PNG	13.07.2011 16:48																								
<b>Date</b>	<b>Vendor</b>	<b>Test witness</b>																							
2011-07-11	<b>Name</b>	<b>Signature</b>	<b>Name</b>																						
	Michael Ford		Svein Olsen																						

## SINGLE TEST RECORD FORM

<b>Test No:</b> 10_1	<b>Profile edition No:</b> 2	<b>Tool:</b> ODMS	<b>Score:</b> 4																							
<b>Test files:</b>																										
<b>Import</b>		<b>Export</b>																								
ENTSOE16_OGS_13J12h.zip																										
<b>Comments/Results/Issues:</b>																										
<p>Imported the zip file "ENTSOE16_OGS_13J12h.zip" form Open Grid Systems. This file was exported as part of Open Grid Systems Test 9.</p> <p>The file/files were imported without error message. The load flow was calculated and the result was stored in the file "ODMS_S1_2_Loadflow.pdf".</p> <p>The following node were checked:</p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th></th> <th>OGS</th> <th>ODMS</th> <th>delta</th> </tr> </thead> <tbody> <tr> <td rowspan="2"><b>S4</b></td> <td>U [kV]</td> <td>22.0</td> <td>22.0</td> <td>0.0%</td> </tr> <tr> <td>angle [°]</td> <td>-19.7</td> <td>-20</td> <td>0.015%</td> </tr> <tr> <td rowspan="2"><b>G1</b></td> <td>P [MW]</td> <td>595,2</td> <td>599,6</td> <td>0.012%</td> </tr> <tr> <td>Q [Mvar]</td> <td>182,5</td> <td>180,2</td> <td>0.013%</td> </tr> </tbody> </table> <p>The result from OGS is stored in the file "ENTSOE16_Merged_LoadFlowDiagram1.png".</p> <p>The results are acceptable.</p>						OGS	ODMS	delta	<b>S4</b>	U [kV]	22.0	22.0	0.0%	angle [°]	-19.7	-20	0.015%	<b>G1</b>	P [MW]	595,2	599,6	0.012%	Q [Mvar]	182,5	180,2	0.013%
		OGS	ODMS	delta																						
<b>S4</b>	U [kV]	22.0	22.0	0.0%																						
	angle [°]	-19.7	-20	0.015%																						
<b>G1</b>	P [MW]	595,2	599,6	0.012%																						
	Q [Mvar]	182,5	180,2	0.013%																						
<b>Supplementary files:</b>																										
ENTSOE16_Merged_LoadFlowDiagram1.png																										
ODMS_S1_2_Loadflow.pdf																										
<b>Date</b>	<b>Vendor</b>	<b>Signature</b>	<b>Test witness</b>																							
2011-07-13	<b>Name</b>	<b>Name</b>	<b>Signature</b>																							
	Michael Ford	Svein Olsen																								



## SINGLE TEST RECORD FORM

<b>Test No:</b> 11_1	<b>Profile edition No:</b> 2	<b>Tool:</b> ODMS	<b>Score:</b> 4
<b>Test files:</b>			
<b>Import</b>		<b>Export</b>	
ENTSO- E_Boundary_Set_28_June_2011_2ndEdition_EU.zip ENTISOE_16_BE.zip		ENTISOE_16_BE_OD_Diff_14J15h.xml ENTISOE_16_BE_OD_15J10h.zip	
<b>Comments/Results/Issues:</b>			
<p>Imported the boundary zip file and the BE MAS zip.          Made the following changes using Project module:</p> <ul style="list-style-type: none"> <li>- Add a new load D2_conf (confirming load) with 50 MW and 45 Mvar</li> <li>- Change the existing load D1 name to D1_nonconf and P from 100 MW to 50 MW and Q from 90 Mvar to 45 Mvar</li> </ul> <p>Exported the changes as a difference file, "ENTSOE_16_BE_OD_Diff_14J15h.xml".          Committed the changes to the model and run load flow. The result is shown in the file "PP_Brussels_AfterChanges.png". The load flow is the same as before the changes.</p> <p>Exported the full TP and SV in a zip file, "ENTSOE_16_BE_OD_15J10h.zip".</p> <p>The full model and different file was zipped to a common file, "ENTSOE_16_BE_OD_15J10h_all.zip"</p> <p>The difference file and the TP and SV file were validated by CIMdesk without any errors. See file starting with "CIMdesk".          The validation of the difference file failed on the CIMdesk validation. It states that the file is a full model rather than a DifferenceModel.</p> <p>Open Grid Systems imported the file without any problem and managed to recognise the changes in the difference file.          The export of the difference file is valid.</p>			
<b>Supplementary files:</b>			
CIMdesk_OD_15J10h_SV.PNG CIMdesk_OD_15J10h_TP.PNG PP_Brussels_AfterChanges.jpg			
<b>Date</b>	<b>Vendor</b>	<b>Signature</b>	<b>Test witness</b>
2011-07-14	<b>Name</b>	<b>Signature</b>	<b>Name</b>
	Michael Ford		Svein Olsen
			



## SINGLE TEST RECORD FORM

<b>Test No: 12_1</b>	<b>Profile edition No: 2</b>	<b>Tool: ODMS</b>	<b>Score: 4</b>																							
<b>Test files:</b>																										
<b>Import</b>		<b>Export</b>																								
ENTSO- E_Boundary_Set_28_June_2011_2ndEdition_EU.zip ENTSOE_16_BE.zip ENTSOE_16_BE_OD_Diff_14J15h.xml ENTSOE_16_BE_OD_15J10h.zip																										
<b>Comments/Results/Issues:</b>																										
<p>Imported the boundary zip file and then the BE MAS zip file.          The different file and the TP and SV were imported separately.          The diff file was first imported then the zip file with TP and SV.</p> <p>Load flow was calculated and the result was exported in the file          "ODMS_BE_Load_AfterImport_15J10h.PNG".</p> <p>The result was compared with the result from Open Grid Systems result from there test 13.</p> <p>The following node were checked:</p> <table border="1"> <thead> <tr> <th></th> <th></th> <th>OGS</th> <th>ODMS</th> <th>delta</th> </tr> </thead> <tbody> <tr> <td rowspan="2"><b>S4</b></td> <td>U [kV]</td> <td>21.987</td> <td>21.987</td> <td>0.00%</td> </tr> <tr> <td>angle [°]</td> <td>-19.668</td> <td>-19.668</td> <td>0.00%</td> </tr> <tr> <td rowspan="2"><b>F5</b></td> <td>P [MW]</td> <td>90.000</td> <td>90.000</td> <td>0.00%</td> </tr> <tr> <td>Q [Mvar]</td> <td>98.585</td> <td>100.180</td> <td>1.59%</td> </tr> </tbody> </table> <p>The result from OGS is stored in the file "DiffLoadFlowResults_CP.png".</p> <p>The results are acceptable.</p>						OGS	ODMS	delta	<b>S4</b>	U [kV]	21.987	21.987	0.00%	angle [°]	-19.668	-19.668	0.00%	<b>F5</b>	P [MW]	90.000	90.000	0.00%	Q [Mvar]	98.585	100.180	1.59%
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<b>Date</b>	<b>Vendor</b>	<b>Signature</b>	<b>Test witness</b>																							
2011-07-15	<b>Name</b>	<b>Name</b>	<b>Signature</b>																							
	Michael Ford	Svein Olsen																								