

TOOL SUMMARY FORM (PER TOOL)

Vendor/Tool: RTE / Convergence				Profile edition No: 1	
Witnessed by					
Name		Signature		Name	
1. <u>TOMASZ ROGOWSKI</u>		<u>Rogowski T.</u>		9.	
2.				10.	
3.				11.	
4.				12.	
5.				13.	
6.				14.	
7.				15.	
8.				16.	
Performed tests					
Test No	Score	Test No	Score	Test No	Score
1	4				
2	4				
3	4				
4	2				
5	<u>2</u>				
6	-				
7	-				
9	-				
10	-				
27	-				
28	-				
Comments:					
Date		Vendor		ENTSO-E	
15/07/2011		Name		Name	
		Signature		Signature	
		<u>CONVERGENCE</u>		<u>Youssef AKEL</u>	
		<u>Charaf Ivanov</u>		<u>[Signature]</u>	

SINGLE TEST RECORD FORM

Test No: 1	Profile edition No: 1	Tool: Convergence	Score: 4
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Test files:	
Import ENTSO- E16nodes_part_NL_v11July_EQ.xml ENTSO-E16nodes_part_NL_v11July_TP.xml ENTSO-E16nodes_part_NL_v11July_SV.xml ENTSO- E_Boundary_Set_4_May_2011_EU_EQ.xml ENTSO- E_Boundary_Set_4_May_2011_EU_TP.xml	Export None

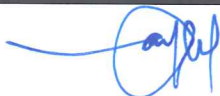
Comments/Results/Issues:

 Import successful of the single NL MAS.
 The load flow converged and the results were as expected.
 We counted the instance data:

- ACLineSegment
We checked the correctness of the imported attributes (data) of ACLineSegment K1 and X3
- BaseVoltage
Correct number and voltages
- EnergyConsumer
We checked the correctness of the imported attributes (data) of EnergyConsumer Load 1 and Xnode load 2
- PowerTransformer
Ok

Supplementary files:
 RTE_CO_Screenshot.png
 RTE_CO_Screenshot2.png

Date	Vendor	Test witness	
15/07/11	Name	Signature	Signature
	RTE	Youssef AKEL	ROGOWSKI TOMASZ Kępczyński T.



SINGLE TEST RECORD FORM

Test No: 2	Profile edition No: 1	Tool: Convergence	Score: 4
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Test files:	
Import ENTSO- E16nodes_part_NL_v11July_EQ.xml ENTSO-E16nodes_part_NL_v11July_TP.xml ENTSO-E16nodes_part_NL_v11July_SV.xml ENTSO- E_Boundary_Set_4_May_2011_EU_EQ.xml ENTSO- E_Boundary_Set_4_May_2011_EU_TP.xml	Export ENTSO-E_16_CO_15J14h_EQ.xml ENTSO-E_16_CO_15J14h_TP.xml ENTSO-E_16_CO_15J14h_SV.xml

Comments/Results/Issues:

We did the counting of the exported objects (with respects to the original files).

We have counted the same number of each instance data.

There are extra information exported:

- 3 ReactiveCapabilityCurve and CurveData: built from minP, maxP, minQ, maxQ
- 1 RatioTapChanger (with a fixed tap and no voltage
- OperationalLimits and CurrentLimits

Supplementary files:

RTE_CO_Screenshot.png
 Test no2 validated export RTE.JPG
 Test no2 validated original file.JPG

Date	Vendor	Test witness	
15/07/11	Name	Signature	Name
	RTE	Youssef AKEL	<div style="display: flex; justify-content: space-between;"> <div> <i>Rogier T. ...</i> <i>Rogier T. ...</i> </div> <div> <i>Rogier T. ...</i> <i>Rogier T. ...</i> </div> </div>



SINGLE TEST RECORD FORM

Test No: 3	Profile edition No: 1	Tool: Convergence	Score: 4	
Test files:				
Import		Export		
ENTSO- E16nodes_part_NL_v11July_EQ.xml ENTSO-E16nodes_part_NL_v11July_TP.xml ENTSO-E16nodes_part_NL_v11July_SV.xml ENTSO- E_Boundary_Set_4_May_2011_EU_EQ.xml ENTSO- E_Boundary_Set_4_May_2011_EU_TP.xml		None		
Comments/Results/Issues:				
The results converged with the load flow of Open Grid System within the engineering tolerance (less than 1~2 %).				
Supplementary files:				
RTE_CO_Screenshot.PNG RTE_CO_Screenshot2.png Profile1Test1-NL-LoadFlowResult.png				
Date	Vendor		Test witness	
15/07/11	Name	Signature	Name	Signature
	RTE	Youssef AKEL	Rogier T. Jansen	Rogier T. Jansen



SINGLE TEST RECORD FORM

Test No: 4	Profile edition No: 1	Tool: Convergence	Score: 2
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Test files:	
Import ENTSO- E16nodes_part_NL_v11July_EQ.xml ENTSO-E16nodes_part_NL_v11July_TP.xml ENTSO-E16nodes_part_NL_v11July_SV.xml ENTSO- E_Boundary_Set_4_May_2011_EU_EQ.xml ENTSO- E_Boundary_Set_4_May_2011_EU_TP.xml	Export ENTSO-E_16_CO_15J14h_TP.xml ENTSO-E_16_CO_15J14h_SV.xml

Comments/Results/Issues:

The internal switch between the transformer NL_trafo 1 and the bus D5 has been turned off.
 The busbar coupler between buses BB and D5 has been switched on.

The active power flow doesn't cross the NL_trafo 1 anymore, but the busbar coupler instead.

The CIM export reflects this topology change.

The exported files were validated in CIMDesk:

- When we have merged with the original EQ file with the newly exported TP and SV:
 There are some errors since not all rdf:IDs are persistent.
 For example, the id of a PowerTransformer is indeed persistent in the current Convergence CIM import/export tool version. But the tool is not yet able to handle the persistent ids for objects like RatioTapChanger, PhaseTapChanger, TransformerWinding, since they are not directly converted to the internal application/system model.

Supplementary files:
 RTE_CO_Screenshot.png
 Test no4 validated exported file.JPG

Date	Vendor		Test witness	
15/07/11	Name	Signature	Name	Signature
	RTE	Youssef AKEL	Rogerski Tomasz	Rogerski T.

