



European Network of Transmission System Operators for Electricity

INTEROPERABILITY TEST "CIM FOR SYSTEM DEVELOPMENT AND OPERATIONS" 2010

APPENDIX C: TEST RECORD FORMS

PART 5



TOOL SUMMARY FORM (PER TOOL)

/endor: Si	endor: Siemens PTI				Tool: PSS®ODMS (w/PSS®E)				
						Signa	turo		
Vitnessed	бу	Signature		Name		Signa			
lame		Sur Ola	_	9.					
. Svein Ol		Mino Rue For	In	10.					
2. Mario Fe	erreira	(Ano pro Tope	7	11.					
3.				12.					
4.				13.					
5.				14.					
6.				15.					
7.				16.					
8.									
Performe	d tests		1.0		Test No	Score			
Test No	Score	Test No	-	ore	Testito				
1 2	Pass	15_1	Pa		-				
2 1	Pass	16_1	-	ISS					
3_1	Pass	17_1	_	ass	-				
<u>3_1</u> 4 1	Pass	27_2		ass					
5 1	Pass	28_1		ass					
6 2	Pass	29_1	N	ot completed	_				
7 1	Pass	30_1	_	ot completed					
	Not completed	31_1	P	ass					
8	Pass				_				
9_2 10_1	Pass								
11 17_	Pass				_				
12 3	Pass				_				
and the second s	Pass				_				
13_2	Not complete	b			_				
14	Not complete								
All CIM validate Test 8 v covered Test 14 Test 18 dynami Test 29 importe	owing tests were /XML processin d the load flow so was not done du in the tools. We could not be cor to 27 could no c model data. Was not completed. Test 30 could ne constraints.	g was done olution and fo e to lack of c did not mana npleted due to t be complet	r the ertain age to o lac ed d	dynamics test nty in the need o come back to k of difference ue to lack of time and miss of due to lack	s. ded functional o this due to la file from othe support for c	ity for shor ack of time. r vendors. onverting r the files th file from o	non-standar at should k ther vendo		
Date	Vendor				me		Signatur		
16/2	-/o Name Michael	Ford	S	ignature Na	ein Olsen, St	atnett SF	Swoll		

ENTSO-E AISBL • Avenue Cortenbergh 100 • 1000 Brussels • Belgium • Tel +32 2 741 09 50 • Fax +32 2 741 09 51 • info@entsoe.eu • www.entsoe.eu

Test No:1_	2	Tool: PSS®OI	DMS	S	core: Pass		
Test files							
Import			Export				
	_16_EU_EQ.xml		1.				
	_16_EU_TP.xml		2.				
	_16_BE_EQ.xml		3.				
	_16_BE_TP.xml		4.				
5. ENTSOE	_16_BE_SV.xml (V	ersion 1)	5.				
The version Re-run the Checked:	Comments/Results/Issues: The version of PSS®ODMS v.7.0.2.4 Re-run the test with an updated ENTSOE_16_BE_SV.xml Checked: Area interchange: Area 1 : not transferred to PSS/O, but included in imported data in ODMS.						
Line R 0.00 Line X 0.07							
	ints were reverse ir 5 3. This is not a pro		E 3 to NC	DDE 11 it	states in the sy	stem NODE	
Loads: NODE 1 an	d NODE 3 -> OK						
Generator: NODE 10 -> OK							
Supplementary files: Siemens_OD_No1_2_Load_flow.jpg Screen shot of the load flow solution.							
Date	Vendor		T	est with	ess		
2010-06-	Name	Signa		lame		Signature	
12	Michael Ford	Mil			en, Statnett SF	South	

Test No:2_1		Tool: PSS®OD	/IS	Score: Pass			
Test files		1.01					
2. ENTSOE	16_EU_EQ.xml 16_EU_TP.xml 16_BE_EQ.xml		2. ENTSOE_1	6_BE_OD_12J14h_ 6_BE_OD_12J14h_ 6 OD 12J15h SV.	TP.xml		
4. ENTSOE	_16_BE_TP.xml _16_BE_SV.xml (\ _16_BE_SV.xml (\		5. EINIGOL_1 4. 5.	0_00_1201011_01			
	Results/Issues: of PSS®ODMS v.	7.0.2.4					
Lines: NODE 3 -> Aggregate fl	Area interchange: Area 1 -> OK						
NODE 2 -> 2	KAA_AB11 -> OK						
load flow so Generator: NODE 10: P NODE 7: Qg	exported is the s lution needs to be gen (MW) 118.170 gen (Mvar) 100.255 ce is inside 5% de	exported from PS 02 (expected) – re 57 (expected) – re	S/O, before th sult 118.1416 sult 100.3007	,	n values the ported.		
Transformer	epresented as 4 s	hunt compensato	s: 4x100 Mva	r and one is turned	off.		
Check 5 loa	d flow points -> Ol	K					
ENTSOE_1	Run CIMspy 2.3 validation of the exported files: ENTSOE_16_BE_OD_12J14h_EQ.xml -> same result as the original file ENTSOE_16_BE_OD_12J14h_TP.xml -> OK ENTSOE_16_BE_OD_12J14h_SV.xml -> OK						
	D_No1_2_Load_1 D_No2_1_CIMsp			flow solution. the CIMspy valida	ation of the		
Date	Vendor		Test w	itness			
2010-06- 12	Name Michael Ford	Signat		Disen, Statnett SF	Signature		

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Test No:3_1	Tool: P	SS®ODMS	Score: Pass			
Test files Import 1. ENTSOE 2. ENTSOE 3. ENTSOE 4. ENTSOE 5. ENTSOE Comments/ The version Checked: The followin NODE 10 NODE 3 NODE 2 NODE 1	Import Export 1. ENTSOE_16_EU_EQ.xml 1. 2. ENTSOE_16_EU_TP.xml 2. 3. ENTSOE_16_BE_EQ.xml 3. 4. ENTSOE_16_BE_TP.xml 4. 5. ENTSOE_16_BE_SV.xml (Version 1) 5. Comments/Results/Issues: The version of PSS®ODMS v.7.0.2.4 Checked: PSS/E DIgSILENT NODE 10 118.15/18.78 NODE 3 158.56/-23.77 NODE 2 -275.75/23.68					
Supplementary files: "Siemens_OD_No1_2_Load_flow.jpg" Screenshot of the load flow solution. "1.2.3 ENTSOE_16_BE_LDF_Result".wmf Screenshot showing DIgSILENT load flow solution						
Date 2010-06- 13	Vendor Name Michael Ford	Signature <i>MOT</i>	Test witness Name Svein Olsen, Statnett	SF SU		

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Test No:4_	1	Tool: PS	S®ODMS		Score: Pass		
Test files (Version 1) Import Export 1. ENTSOE_16_EU_EQ.xml 1. ENTSOE_16_NL_OD_13J12h_TP.xml 2. ENTSOE_16_EU_TP.xml 2. ENTSOE_16_NL_OD_13J12h_SV.xml 3. ENTSOE_16_NL_EQ.xml 3. 4. ENTSOE_16_NL_TP.xml 4. 5. ENTSOE_16_NL_SV.xml 5. Comments/Results/Issues: The version of PSS®ODMS v.7.0.2.4							
	The breaker on NODE 8 to NODE 5 in Area 2 was open. Validated the topology and state file using CIMspy.						
Supplementary files: "Siemens_OD_No4_1_Load_flow_BeforeChange.jpg" Screenshot of the load flow solution based on the original files. "Siemens_OD_No4_1_Load_flow_AfterChange.jpg" Screenshot of the load flow solution after the changes. "Siemens_OD_No4_1_CIMspyValidation_TP.jpg" Screenshot of the CIMspy validation of the Topology file. "Siemens_OD_No4_1_CIMspyValidation_SV.jpg" Screenshot of the CIMspy validation of the state file.							
Date	Vendor	1		Test wit	ness		
2010-06- 13	Name Michael Ford		Signature MDF	Name Svein Ol	sen, Statnett SF	Signature	

Test No:6_2	Tool: P	SS®ODMS	S	Score: Pass	
Test files (Version 1)					
Import		Ехро	rt		
1. ENTSOE_16_EU_EQ.>		1.			
2. ENTSOE_16_EU_TP.x		2.			
3. ENTSOE_16_NL_EQ.>		3.			
4. ENTSOE_16_NL_PF_	and the second se				
5. ENTSOE_16_PF_13J1	15h_SV.xml	5.			
Comments/Results/Issu The version of PSS®ODM					
	NO V.7.0.2.4				
We imported the files from	n DIgSILENT.				
Validated that the change 8 to NODE 5 in Area 2 wa		SILENT was	transferred	over: The breake	er on NODE
Made a screenshot of the		ition (ODMS).			
The following values were	e compared: DMS	DIgSILENT		PSSE	
	4.69/28.56	-74.69/28.	70	-74.69/28.54	
NODE 4 Lo side T3 7	4.84/-26.72	74.84/-26.8		74.84/-26.70	
NODE 9 Lo side T5 3	24.73/91.57			324.73/91.58	
The number as inside the	e 5% tolerance	·			
Supplementary files:					
"Siemens_OD_No6_2_Lo			of the load	d flow solution	based on
topology changed made b	by DIgSILENT.				
"1.2.4 ENTSOE_16_NL		.wmf" Screer	nshot show	ing DIgSILENT	load flow
solution for NL with the bi		us such at from		the load flow cal	ution based
"Siemens_S_No6_2_Load_flow.jpg" Screenshot from PSS®E of the load flow solution based changed made by DIgSILENT.					
Date Vendor			Test witne	SS	
2010-06- Name		Signature	Name		Signature
15 Michael Ford	d	NOF	Svein Olse	n, Statnett SF	SO.

Test No:7 1	Tool: PSS®ODMS	Score: Pass				
Test files (Version 1)						
Import	Exp	ort				
1. ENTSOE_16_EU_EQ.xml	1.					
2. ENTSOE_16_EU_TP.xml	2.					
3. ENTSOE_16_NL_EQ.xml	3.					
4. ENTSOE_16_NL_TP.xml	4.					
5. ENTSOE_16_NL_PF_13J1	6h_SV.xml 5.					
Comments/Results/Issues: The version of PSS®ODMS v.7.0.2.4 We imported the SV file from DIgSILENT. That included the following changes: Generator 1 at node 9 from P = 140 MW to P = 160 MW Node 9 svVoltage changed from V = 1.047 pu to V = 1.04 pu. Load 2 at node 4 from P = 10 MW to P=20 MW Set ODMS to use the svVoltage level to reset the regulation target of the regulating equipment. Without setting this – the solution is calculated based on the prior voltage settings. The reset of regulation target needs to be set before exporting the RAW file to PSS/ to get the same result in PSS/E.						
Calculated load flow solution. Made a screenshot of the load flow solution (ODMS). The following values were compared: ODMS DIgSILENT PSSE NODE 4 Hi side T3 -84.69/29.29 -84.69/29.45 -84.69/29.28 NODE 4 Lo side T3 84.85/-27.17 84.85/-27.33 84.85/-27.16 NODE 9 Lo side T5 310.00/128.70 310.00/129.71 310.00/129.11 The number as inside the 5% tolerance.						
Supplementary files: "Siemens_OD_No7_1_Load_flow.jpg" Screenshot of the load flow solution based on topology changed made by DIgSILENT. "1.2.5 ENTSOE_16_NL_LDF_Results.wmf" Screenshot showing DIgSILENT load flow solution for NL with the breaker open. "Siemens_OD_No7_2_Load_flow.jpg" Screenshot of the load flow solution based on topology changed made by DIgSILENT. "Siemens_S_No7_2_Load_flow.jpg" Screenshot from PSS®E of the load flow solution						
based changed made by DIgSILENT.						
Date Vendor		Test witness				
2010-06- Name	Signature	Name	Signature			
13 Michael Ford	Nor	Svein Olsen, Statnett SF	SQ			

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Test No:9_2	Т	ool: PSS®O	DMS		Score: Pass		
Test files (Version	1)						
Import			Expo	ort	I THE ALLER &		
1. ENTSOE_16_E			1. ENTSOE 16 NL OD 14J10h EQ.xml				
2. ENTSOE_16_E	U_TP.xml				3_NL_OD_14J1		
3. ENTSOE_16_N	L_EQ.xml				6_EU_OD_14J1		
4. ENTSOE_16_N					6_BE_OD_14J1		
5. ENTSOE_16_N			5. EN	ITSOE_10	6_BE_OD_14J1	0h_TP.xml	
6. ENTSOE_16_B							
7. ENTSOE_16_B							
8. ENTSOE_16_B							
9. ENTSOE_16_N							
10. ENTSOE_16_I	NL_OD_13J12	h_SV.xml					
Comments/Results/Issues: The version of PSS®ODMS v.7.0.2.4 Imported the file. Calculated load flow. Created a screenshot showing the result. Exported the merge model. Validated all the exported files in CIMspy.							
Supplementary files: "Siemens_OD_No9_2_Load_flow_Solution_1.jpg" Screenshot of the load flow solution based on the merge of original files. "Siemens_OD_No9_2_Load_flow_Solution_2.jpg" Screenshot of the load flow solution for the merge solution with the changes from 1.2.4 – open the breaker on NODE 8 to NODE 5 in Area 2. "Siemens_OD_No9_2_CIMspyValidation_EQ.jpg" Screenshot of the CIMspy validation of the Equipment file. "Siemens_OD_No9_2_CIMspyValidation_TP.jpg" Screenshot of the CIMspy validation of the topology file.							
Date Vend				Test wit	ness		
2010-06- Name		Signa	ature	Name		Signature	
13 Micha	el Ford	Most		Svein O	sen, Statnett SF	Ser	



Test No:10	1	Tool: PSS®C	DMS		Score: Pass	
Test files (V		1001.10080	DINO]	00010.1 433	
Import	ersion T)		Ехро	rt		
	16 EU EQ.xml		LAPO			
	16 EU TP.xml					
3. ENTSOE	16_NL_OD_14J1	0h_EQ.xml				
	16_NL_OD_14J1					
	16_EU_OD_14J1					
	16_BE_OD_14J1	A COLORED OF COLORED O	-			
7. ENISOE	16_BE_OD_14J1	0h_TP.xml				
	Results/Issues:					
The version of	of PSS®ODMS v.	7.0.2.4				
Imported the	files created in 1.2	2.9. This mode	include	es the mer	ge base model.	
The following	y values were com	pared:				
	ODMS		ILENT		PSS/E	
NODE 10			7/18.42		118.17/18.75	
NODE 7 NODE 3		9.77 90.0 -24.07 158.6			90.00/100.04 158.53/-23.76	
NODE 2		/24.15 -275.			-275.74/23.75	
	ide T3 -74.61/				-74.67/29.77	
	side T3 74.75/-				74.82/-27.92	
NODE 9 Lo s		/159.93 290			290.00/160.23	3
The result is	inside the 5% tole	rance.				
Supplement	ary files:					
"Siemens_OI	D_No10_1_Load_	flow.jpg" Scree	enshot d	of the load	d flow solution ba	ased on the
merge model						
"Siemens_OI	D_No10_1_unit.jp	g" Screenshot	of the I	load flow	solution based or	n the merge
model.			after Tr			had about
DIASILENT	SOE_16_NL_BE_	LDF_Results	after Th	Sv_imp	on .wmr Screenst	not snowing
	_No10_1_Load_flc	wing" Screen	shot fro	om PSSR	E of the load fl	ow solution
based chang	ed made by DIgSI	LENT.				SW SOLUTION
	, , ,					
	Vendor			Test with	ess	
	Name	Signa	ature	Name		Signature
15	Michael Ford	May	2	Svein Ols	en, Statnett SF	S.l.

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Test No:11	_2	Tool: P	SS®ODMS		Score: Pass	
Test files (\	/ersion 1)					
Import			Ехро	rt		
1. ENTSOE	16_EU_EQ.xml				6_NL_OD_15J15h_	
2. ENTSOE	16_EU_TP.xml	C	2. EN	TSOE_16	6_NL_OD_15J15h_	TP.xml
3. ENTSOE	16_NL_OD_14J1	0h_EQ.x	ml 3. EN	TSOE_16	6_OD_15J15h_SV.	xml
4. ENTSOE	16_NL_OD_14J1	0h_TP.xr	nl			
5. ENTSOE	16 EU_OD_14J	10h_SV.x	ml			
6. ENTSOE	16 BE_OD_14J1	l0h_EQ.x	ml			
7. ENTSOE	16 BE OD 14J1	Oh TP.x	ml			
8.						
9.						
10.						
	/Deculte //courses					
	Results/Issues:	7024				
	of PSS®ODMS v.	1.0.2.4				
Imported the	ig changes was ma	ado to the	solution:			
	e breaker betweer					
	loved Load 2 at N					
	ad flow solution.	JDL 1.				
		model in t	he DIFF file.	This file in	cludes incremental	differences
in equipmen	nt. topology and sta	ate variab	les. This occu	irs since	the removal of the	_oad affects
the topology	v and state. It cha	nges to t	he model that	t only effe	ects equipment, the	en the DIFF
file will only	include equipmen	t informat	tion. The spec	ification of	of difference file is a	a bit unclear
on this poin						
		odel. Exp	orted a full top	ology and	d state variable files	3.
	screenshot with the					
Since CIMs	py does not suppo	rt validati	on of different	/ increm	ental file, we only u	sed CIMspy
to look at th	e changes.					
Validated al	I the SV and TP fil	es in CIM	spy.			
Supplemen	tary files					
		flow ind"	Screenshot	of the los	ad flow solution ba	ased on the
	ne to the model.	_now.jpg	obroomonor			
		by DIFF.	ipa" Screens	hot of t	he CIMspy valida	tion of the
Equipment		pj_=	JP3			
		pvValidat	ion TP.ipa" S	Screensho	ot of the CIMspy v	alidation of
the topology				1000 000 000 000 000 000 000 000 000 00		
		pyValidat	ion_SV.jpg" S	Screensho	ot of the CIMspy v	alidation of
the state va	riable file.					
"Siemens S	S_No11_2_Load_f	low.jpg" S	Screenshot of	the load t	flow solution from F	SSE based
	on the changes done to the model.					
Date	Vendor			Test wit	iness	
2010-06-	Name		Signature	Name		Signature
15	Michael Ford				lsen, Statnett SF	
			Mat			20
1	1			1		1

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Test No:12_3	Tool: PSS®ODMS	Score: Pass	
Test files (Version 1)			
Import	Export		
1. ENTSOE_16_EU_EQ.xml			
2. ENTSOE_16_EU_TP.xml			
3. ENTSOE_16_NL_OD_14.			
4. ENTSOE_16_NL_OD_14			
5. eg_ENTSOE_16_EU_NL 6. eg_ENTSOE_16_EU_NL			
7. eg ENTSOE 16 EU NL		-	
T. eg_ENTSOE_T0_E0_NL			
Comments/Results/Issues:			
The version of PSS®ODMS			
	7.7.0.2.4		
Imported the file exported in	1.2.9 to create the merge	e model.	
Imported the DIFF files repre			
The following changes was in			
1. Add Substation "EG			
2. Changed neutral and		e shifter.	
3. Changed x value on a	transformer		
The solution from GE is bas	ed on the Version () of t	he hase file rather than Ve	ersion 1 We
reversed the signed in th			
eg_ENTSOE 16 EU NL Te			carea acr
This file was imported.			
Calculate load flow solution.			
Validated load and generator	data and they were insid	de 1% difference.	
Supplementary files:			
"Siemens_OD_No12_3_Loa	ds.jpg" Screenshot of	the load result from the	e load flow
calculation based on the cha			
"Siemens_OD_No12_3_Unit			v calculation
based on the changes done			
"eg_test11_resolution_scree	1.doc Screenshot show	ng GE load flow solution.	
Date Vendor		Test witness	
2010-06- Name	Signature	Name	Signature
16 Michael Ford	Signature	Svein Olsen, Statnett SF	
	MPF		20.

Test No:13_2	Tool: PSS®ODMS	Score: Pass					
Test files (Version 1)							
Import	Export						
1. ENTSOE_16_EU_EQ.xml		DE_16_NL_OD_16J15h_DIFF.xml					
2. ENTSOE_16_EU_TP.xml		DE_16_NL_OD_16J15h_TP.xml					
3. ENTSOE_16_NL_EQ.xml		DE_16_OD_16J15h_SV.xml					
4. ENTSOE_16_NL_TP.xml		DE_16_BE_OD_16J15h_DIFF.xml					
5. ENTSOE_16_NL_SV.xml 6. ENTSOE 16 BE EQ.xml	5. ENTSC	DE_16_BE_OD_16J15h_TP.xml					
7. ENTSOE 16 BE TP.xml							
8. ENTSOE 16 BE SV.xml							
9.							
10.							
Comments/Results/Issues:	7024						
The version of PSS®ODMS v.7.0.2.4 Imported the file. The following changes was made to the solution: 1. Close breaker between NODE 6 and NODE 9. 2. Add new Load at NODE 5. 3. Remove Generator at NODE 7 4. Add Line between NODE 3 and NODE 11, IdentifiedObject.name=PTI IdentifiedObject.description=new in 1.2.11 IdentifiedObject.description=new in 1.2.11 IdentifiedObject.aliasName=DFG-THY 3 ACLineSegment.bch=4.61157E-05 ACLineSegment.r=1.06601 ACLineSegment.gch=1E-09 ACLineSegment.c0=1.16601 ACLineSegment.v0=34.3853 ACLineSegment.g0ch=2E-9 Equipment.aggregate=false Calculate load flow solution. Export incremental / different model in the two DIFF file. This file includes incremental differences in equipment, topology and state variables. This occurs since the removal of the							
is a bit unclear on this point.	nodel. Exported a full Topol	n. The specification of difference file logy and state variable files. Export					

Validated a	ll the exported files in CIMsp	ру.						
calculation "Siemens_(based on th "Siemens_ different file	DD_No13_3_Loads.jpg"So based on the changes done DD_No13_3_Units.jpg"Scre he changes done. OD_No13_2_CIMspy_NL_E ofor NL. DD_No13_2_CIMspy_BE_D	eenshot of the DIFF.jpg" Scr	unit result from the load flow	w calculation showing the				
"Siemens_OD_No13_2_CIMspy_NL_TP.jpg" Screenshot of the CIMspy validation of the topology file. "Siemens_OD_No13_2_CIMspy_NL_SV.jpg" Screenshot of the CIMspy validation of the state variable file. "Siemens_OD_No13_2_CIMspy_BE_TP.jpg" Screenshot of the CIMspy validation of the topology file. "Siemens_OD_No13_2_CIMspy_BE_TP.jpg" Screenshot of the CIMspy validation of the topology file.								
Date	Vendor		Test witness					
2010-06- 16	Name Michael Ford	Signature	Name Svein Olsen, Statnett SF	Signature SA				



Test No:15	_1	Tool: PSS®O	DMS	Score: Pass				
Export Import Export 1. ENTSOE_16_EU_EQ.xml								
	_16_NL_DY.xml E 16 BE DY.xml							
The version Imported th The instant Calculated ENTSOE_1 The files we and dynami	Comments/Results/Issues: The version of PSS®ODMS v.7.0.2.4 Imported the file. Created a screenshot showing the imported dynamic data. The instant data was checked.							
Supplementary files: "Siemens_OD_No15_1_Dynamic.jpg" Screenshot of the dynamic data imported. "Siemens_OD_No15_1_Load_flow.jpg" Screenshot of the load flow solution based on the base model with dynamic data. "Siemens_S_No15_1_Dynamic_initial.jpg" Screenshot of the dynamic initialized model.								
Date	Vendor	0:		t witness	0:			
2010-06- 16	Name Michael Ford	Sign Ma		ne in Olsen, Statnett SF	Signature			

	6_1	Tool: PSS®O	DMS		Scor	e: Pas	SS		
Test files	(Version 1)								
Import			Expo	ort					
1. ENTSOE 16 EU EQ.xml 1. ENTSOE 16 NL OD 16J10h EQ.xml								nl	
2. ENTSOE 16 EU TP.xml 2. ENTSOE 16 NL OD 16J10h TP.xml									1
3. ENTSO	E 16 NL EQ.xml		3. EN	ITSOE ^	6 EU	OD 1	6J10h	SV.xm	nl
4. ENTSO	E_16_NL_TP.xml		4. EN	ITSOE_	6 BE	OD_1	6J10h	EQ.xn	nl
5. ENTSO	E_16_NL_SV.xml		5. EN	ITSOE_	6 BE	OD 1	6J10h	TP.xm	1
6. ENTSO	E_16_BE_EQ.xml			ITSOE_					
7. ENTSO	E_16_BE_TP.xml			ITSOE_					
8. ENTSO	E_16_BE_SV.xml								
9. ENTSO	E_16_NL_DY.xml								
	DE_16_BE_DY.xml								
Validated 1	he exported EQ files		lalizeu	the mode	91.				
Suppleme "Siemens_ base mode "Siemens_ "Siemens of the NL E "Siemens_	DD_No15_1_Dynar OD_No15_1_Dynar OD_No15_1_Load with dynamic data S_No15_1_Dynami _OD_No16_1_CIMs quipment file. OD_No16_1_CIMs	s in CIMspy. nic.jpg" Screen flow.jpg" Scree c_initial.jpg" Sc pyValidation_N	shot of enshot reensho L_EQ.jj	the dyna of the lo ot of the pg" Scre	mic dat bad flow dynamienshot	v solut c initia of the	tion ba alized r CIMsp	model. py valid	atior
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result match inside 1% tolerance. Supplementary files: "Siemens_OD_No15_1_Dynamic.jpg" Screenshot of the dynamic data imported. "Siemens_OD_No15_1_Load_flow.jpg" Screenshot of the load flow solution based on the base model with dynamic data. "Siemens_S_No15_1_Dynamic_initial.jpg" Screenshot of the dynamic initialized model. "Siemens_S_No15_1_Dynamic_initial.jpg" Screenshot of the dynamic initialized model. "Siemens_S_No17_1_Dynamic.jpg" Screenshot of the dynamic simulation result. "1.2.17 ENTOSE_16 Node 6 vief step respose.wmf" screenshot showing the DIgSILENT result from the dynamic simulation. Date Vendor Test witness 2010-06- Name Signature Signature	Run dynam	nic simulation and	compare	ed the re	sult v	with the	result from DIgSII	_TENT. The		
"Siemens_OD_No15_1_Dynamic.jpg" Screenshot of the dynamic data imported. "Siemens_OD_No15_1_Load_flow.jpg" Screenshot of the load flow solution based on the base model with dynamic data. "Siemens_S_No15_1_Dynamic_initial.jpg" Screenshot of the dynamic initialized model. "Siemens_S_No15_1_Dynamic_initial.jpg" Screenshot of the dynamic initialized model. "Siemens_S_No17_1_Dynamic.jpg" Screenshot of the dynamic simulation result. "1.2.17 ENTOSE_16 Node 6 vief step respose.wmf" screenshot showing the DIgSILENT result from the dynamic simulation. Date Vendor Date Vendor 2010-06- Name							0			
"Siemens_OD_No15_1_Dynamic.jpg" Screenshot of the dynamic data imported. "Siemens_OD_No15_1_Load_flow.jpg" Screenshot of the load flow solution based on the base model with dynamic data. "Siemens_S_No15_1_Dynamic_initial.jpg" Screenshot of the dynamic initialized model. "Siemens_S_No15_1_Dynamic_initial.jpg" Screenshot of the dynamic initialized model. "Siemens_S_No17_1_Dynamic.jpg" Screenshot of the dynamic simulation result. "1.2.17 ENTOSE_16 Node 6 vief step respose.wmf" screenshot showing the DIgSILENT result from the dynamic simulation. Date Vendor Date Vendor 2010-06- Name										
"Siemens_OD_No15_1_Dynamic.jpg" Screenshot of the dynamic data imported. "Siemens_OD_No15_1_Load_flow.jpg" Screenshot of the load flow solution based on the base model with dynamic data. "Siemens_S_No15_1_Dynamic_initial.jpg" Screenshot of the dynamic initialized model. "Siemens_S_No15_1_Dynamic_initial.jpg" Screenshot of the dynamic initialized model. "Siemens_S_No17_1_Dynamic.jpg" Screenshot of the dynamic simulation result. "1.2.17 ENTOSE_16 Node 6 vief step respose.wmf" screenshot showing the DIgSILENT result from the dynamic simulation. Date Vendor Date Vendor 2010-06- Name	Supplemen	ntary files:								
"Siemens_OD_No15_1_Load_flow.jpg" Screenshot of the load flow solution based on the base model with dynamic data. "Siemens_S_No15_1_Dynamic_initial.jpg" Screenshot of the dynamic initialized model. "Siemens_S_No17_1_Dynamic.jpg" Screenshot of the dynamic simulation result. "1.2.17 ENTOSE_16 Node 6 vief step respose.wmf" screenshot showing the DIgSILENT result from the dynamic simulation. Date Vendor Z010-06- Name			nic.jpg" S	Screensh	ot of t	the dynar	nic data imported.			
base model with dynamic data. "Siemens_S_No15_1_Dynamic_initial.jpg" Screenshot of the dynamic initialized model. "Siemens_S_No17_1_Dynamic.jpg" Screenshot of the dynamic simulation result. "1.2.17 ENTOSE_16 Node 6 vief step respose.wmf" screenshot showing the DIgSILENT result from the dynamic simulation. Date Vendor 2010-06- Name Signature								ased on the		
"Siemens_S_No17_1_Dynamic.jpg" Screenshot of the dynamic simulation result. "1.2.17 ENTOSE_16 Node 6 vief step respose.wmf" screenshot showing the DIgSILENT result from the dynamic simulation. Date Vendor 2010-06- Name Signature Name Signature										
"1.2.17 ENTOSE_16 Node 6 vief step respose.wmf" screenshot showing the DIgSILENT result from the dynamic simulation. Date Vendor Test witness 2010-06- Name Signature										
result from the dynamic simulation.DateVendorTest witness2010-06-NameSignatureName										
Date Vendor Test witness 2010-06- Name Signature Name Signature				o respos	e.wm	f" screer	shot showing the	DIgSILENT		
2010-06- Name Signature Name Signature	result from	the dynamic simulat	tion.							
		Vendor				Test wit	iness			
16 Michael Ford Michael Svein Olsen, Statnett SF				Signatu	ire	Name		Signature		
	16	Michael Ford		MOF		Svein O	lsen, Statnett SF	50.		

Test No:27	_2	Tool: PSS®OD	MS	Score: Pass				
Test files (Version 1)							
Import			Export					
1. ge1_eq.x				16J13h_EQ.xm				
2. ge1_tp_v								
3. ge1_sv_v	_sv_v2.xml 3. GE1_OD_16J13h _SV.xml							
4.			4. GE1_OD_	16J13h _DY.xm	nl			
5.								
6.								
7.								
8.								
9.								
10.								
Comments/Results/Issues: The version of PSS®ODMS v.7.0.2.4 Imported the file in CPSM profile format. Exported the data in ENTSO-E profile format. Validated the exported EQ, TP and SV file in CIMspy. The DY files were not validated. The file validated correctly.								
Supplementary files: "Siemens_OD_No27_2_CIMspyValidation_GE1_EQ.jpg" Screenshot of the CIMspy validation of the Equipment file. "Siemens_OD_No27_2_CIMspyValidation_GE1_TP.jpg" Screenshot of the CIMspy validation of the topology file. "Siemens_OD_No27_2_CIMspyValidation_GE1_SV.jpg" Screenshot of the CIMspy validation of the state variable file.								
Date	Vendor		Test w	itnoss				
2010-06-	Name	Signat		111633		Signature		
16	Michael Ford		Svein (Olsen, Statnett S	SF	SQ		

Test No:28_1 Tool: PSS	BRODMS	Score: Pass					
Test files (Version 1)	141						
Import	Export						
1. ABB40bus_EQ_NM_14J13.xml	1.						
2. ABB40bus_TP_CN2TP_NM_14J08.xm 3. ABB40bus_SV_NM_14J15.xml	1 <u>2.</u> 3.						
4.	4.						
5.	5.						
6.							
7.							
8.							
9.							
10.							
Comments/Results/Issues: The version of PSS®ODMS v.7.0.2.4 Imported the file. The TP file included error in the header. The following changes was done to the new TP file: ABB40bus TP CN2TP_NM_14J08_PTI							
Changed md namespace to "http://iec.ch/	2010/schema/CIM_	model_description#"					
Changed md:Model.DependentOn to rdf:r	esource="_"						
<md:description> <md:descri </md:descri </md:description>	<md:model.modelingauthorityset> <md:description> <md:description.name>LOCAL</md:description.name></md:description></md:model.modelingauthorityset>						
The following changes was done to new S ABB40bus_SV_NM_14J15_PTI	SV file:						
Changed md namespace to "http://iec.ch/	2010/schema/CIM_	model_description#"					
Added ModelingAuthoritySet same as abo	ove						
We change SvTapStep.RatioTapChanger	to SvTapStep.Tap	Changer					
Ignore the error reporting that SvTapStep	refers to missing T	apChanger.					
	Calculate load flow solution. The solution solved. It was difficult to compare the values with ABB result. Some check where done and found OK.						
Supplementary files:							

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"Siemens_OD_No28_1_Loads.jpg" Screenshot of the load result from the load flow calculation. "Siemens_OD_No28_1_Units.jpg" Screenshot of the unit result from the load flow calculation. "ABB40bus_NM_11J21_bus-branch-report.xml" XML files showing the load flow in ABB system.

Date	Vendor		Test witness		
2010-06-	Name	Signature	Name	Signature	
16	Michael Ford	Man F.	Svein Olsen, Statnett SF	Sel	

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Test No:31_1	Tool: PSS®ODMS	Score: Pass
Test files (Version 1)		
Import	Export	
1. ENTSOE_16_EU_EQ_Error	.xml	
2. ENTSOE_16_EU_TP_Error		
3. ENTSOE_16_NL_EQ_Error		
4. ENTSOE_16_NL_TP_Error.		
5. ENTSOE_16_NL_SV_Error.	xml	
Commonte /Desuite /laser		
Comments/Results/Issues: The version of PSS®ODMS v.	7024	
The version of F33@ODIvi3 v.	7.0.2.4	
	le was changed back to the	ader. The file was imported, error ne original condition and name and
ENTSOE_16_EU_EQ_Error.x		
xmlns:pti="http://www.pti-us.co		#
changes to		
xmlns:pti="http://www.pti-us.co		
The import failed with an error	screen. Created a screens	hot with the message.
ENTSOE_16_EU_TP_Error.xi	ml	
<md:model.dependenton< td=""><th></th><td>rdf:resource="http://www.pti-</td></md:model.dependenton<>		rdf:resource="http://www.pti-
us.com/2010/ENTSOE_16_EU	EQ/1"/>	raineeearee map
Change to		
<md:model.dependenton< td=""><th></th><td>rdf:resource="http://www.pti-</td></md:model.dependenton<>		rdf:resource="http://www.pti-
us.com/2010/ENTSOE_16_EU		
The import failed with an error		hot with the message.
ENTSOE_16_NL_EQ_Error.x		
<md:model.modelingauthoritys <md:description></md:description></md:model.modelingauthoritys 	bel>	
	>ENTSOE_16_NL <td>scription name></td>	scription name>
<th>Set></th> <td></td>	Set>	
Is removed from the file.		
The import failed with an error	screen. Created a screens	hot with the message.
ENTROE 40 NU TO E		
ENTSOE_16_NL_TP_Error.xr <md:model.profile></md:model.profile>	ni	

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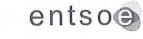
<m <m <m /md: /md:Mode Changed t <md:desc <md:desc< th=""><th>d:Description.name>ENTSO d:Description.version>2Description> el.Profile> to ription.version>2ription.version>3t goes OK. The system sh</th><th>E-Topology<!--<br-->I:Description.v iption.version> iption.version></th><th>ersion></th><th>to</th></md:desc<></md:desc </m </m </m 	d:Description.name>ENTSO d:Description.version>2Description> el.Profile> to ription.version>2ription.version>3t goes OK. The system sh	E-Topology <br I:Description.v iption.version> iption.version>	ersion>	to						
<md:desc Changed t <md:desc The impor</md:desc </md:desc 	ENTSOE_16_NL_SV_Error.xml <md:description.uri><u>http://www.entsoe.eu/StateVariables/2> Changed to: <md:description.uri><u>http://www.entsoe.eu/State/2> The import goes OK. The system should have reported that this is not a profile file that is supported.</u></md:description.uri></u></md:description.uri>									
Supplementary files: "Siemens_OD_No31_1_EU_EQ_Error.jpg" Screenshot of the error message showed in the log file. "Siemens_OD_No31_1_EU_TP_Error.jpg" Screenshot of the error message showed in the log file. "Siemens_OD_No31_1_NL_EQ_Error.jpg" Screenshot of the error message showed in the log file.										
Date	Vendor		Test witness							
Date 2010-06- 16	Vendor Name Michael Ford	Signature	Test witness Name	Signature						

TOOL SUMMARY FORM (PER TOOL)

Vendor: SISC	0		To PI		CO UIB Ada stem	apter	for OSIsoft
Witnessed by							
Name		Signature		me		S	Signature
1. Chavdar Iva		you	9.				
2. Pierluigi Di	Cicco se	e test record					
3.			11				
4.		1.6	12				
5.			13				
6.		2.1	14				
7.			15				
8.			16				
Performed tes	sts						
Test No	Score	Test No	Score		Test No	Sco	ore
1_1	Pass	Unstruct_1_2	Pass				
4_1	Pass	1_7	Pass				
9_1	Pass	Unstruct_1_3	Pass				
10_1	Pass	1_8	Pass				
15_1	Pass	1_9	Pass				
1_2	Pass	28_1	Pass		1	1	
12_1	Pass	24_1	Pass				
31_1	Pass						
1_3	Pass		-				
1_4	Pass						
31_2	Pass		1			1	
1_5	Pass						
1_6	Pass		1				
31_3	Pass						
Unstruct_1_1	Pass						
provide functio	s 2,3,5,6,7,8,11 nality of export performed due import only.	, load flow anal	ysis, or sir	nulation		produ	uct does not
Date	Vendor			ENT	SO E		
			Signature				Signature
16 July 20	M SISC		Mubel Jal		idar Iva	nov	(D)

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ENSTOE 16 MODEL

Test No:1_	1	Tool: SI	SCO UIB PI-/	AF Score:	PASS					
Test files										
Import			Expo	t						
	_16_EU_EQ.xml+_		1.							
	_16_BE_EQ.xml +	TP+SV+D	9Y 2. 3.							
3. 4.			4.							
5.										
	/Results/Issues:									
	rameters of SVPov	werFlow a	nd SVVoltage							
Supplemen	ntary files:									
ENTSOE 1	_1.jpg (screenshot	t of import	ed instance d	ata)						
Date	Vendor			Test witness						
12072010	Name		Signature	Name		Signature				
	SISCO		Aubut Jalk	Chavdar Ivanov		Que				

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Test No:4_	1	Tool: SI	SCO UIB PI-/	AF Scor	e: PASS	
Test files			1941			
Import	in the second second	-1.	Expo	rt		
	_16_EU_EQ.xml+		1.			
	_16_BE_EQ.xml +	-TP+SV+L				
3. 3.						
4. 5.			4.			
	/Results/Issues:		0.			
Removed c	onnection to D1 (C	conforman	t Load) P=100)MW Q=90		
Product doe	es not perform exp	ort functio	nality.			
Suppleme	ntary files:					
				in the second		
ENTSOE_4	_1.jpg (screensho	t of impor	ted instance d	ata)		
				Teater		
Date	Vendor		Cimerture	Test witness		Signatura
12072010	Name		Signature	Name Chavdar Ivan	01/	Signature
	SISCO		MA Joll		UV .	yas

Test No:9	1	Tool: SI	SCO UIB PI-	AF Score: P/	ASS			
Test files								
Import			Ехро	rt				
	_16_EU_EQ.xml+_1		1.					
	_16_NL_EQ.xml+TF	P+SV+D						
4. 5.	4. 4.							
			5.					
Comments	/Results/Issues:							
Verified Am	sterdam Substation	added.						
Product doe	es not perform Load	Flow or I	Exports.					
Supplemen	ntary files:							
ENTROL) 1 ing (coroonchot a	fimnort	od instance d	lata)				
	9_1.jpg (screenshot o	mpone		iata)				
Date	Vendor			Test witness				
12072010	Name		Signature	Name	Signature			
	SISCO		Abil 2all	Chavdar Ivanov	an 3			
L		1	mannenne		4			
Contraction of the second s			distantiation and a state of the		The second se			

Test No:10	_1	Tool: SISC	O UIB PI-/	AF Score: F	PASS
Test files					
Import		·	Expo	rt	
	16 EU EQ.xml+	TP	1.		
	_16_BE_EQ.xml +		2.		
			3.		
4.ENTSOE			4.		
5.			5.		
Comments	/Results/Issues:				
	and export not sup				
Supplemen	ntary files:				
ENTOOR 4	0 1 in a (at of loss and -	d instance	data)	
ENISUE_1	0_1.jpg (screensho	ot of importe	a instance	ບລເລ)	
Date	Vendor			Test witness	
12072010	Name	Si	ignature	Name	Signature
	SISCO		what Jalk	Chavdar Ivanov	and



Test No:15	_1	Tool: SISCO L	JIB PI-AF	Score: PAS	S
Test files Import 1. ENTSOE 2. ENTSOE 3. ENTSOE 4. 5. Comments Checked at	<u>16_EU_EQ.xml+</u> <u>16_BE_EQ.xml+</u> <u>16_NL_EQ.xml+</u> / Results/Issues: tribute values for Es	TP TP+SV+DY TP+SV+DY SAC1A of ExcA0	Export 1. 2. 3. 4. 5.		S
Supplemer	ntarv files:				
		t of important in a	topoc det	-	
ENTSUE_1	5_1.jpg (screensho	or imported ins		a)	
Date	Vendor			st witness	
12072010	Name	Signa		me	Signature
	SISCO	Marke	J2M Ch	avdar Ivanov	gaes

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. 1

ABB 40 MODEL

Test No:1_	2	Tool: SISCO L	JIB PI-	AF	Score: PASS	
Test files						
Import			Ехро	rt		
	us_EQ_NM_11J21		1.			
	us_TP_NM_11J21.		2.			
	us_SV_NM_11J21.	XML	3.			
4.			4.			
5.			5.			
Comments	/Results/Issues:					
Checked pa	arameters of Trans	formerWinding a	nd ACL	ineSegm	nent	
Product doe	es not support expo	ort or power flow				
Supplemen	ntary files:					
	4 T 6 14"					
	1_TransformerWind					
	1_ACLineSegment	.168				
Data	Vandar			Test wit	noss	
Date 13072010	Vendor Name	Signa	aturo	Name	11692	Signature
13072010	SISCO				Di Cicco	0
		Wabert	Inth	, ionuigi	51 01000	Finhy D'lice
Į	1					

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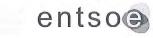
Test No:12	_1	Tool: SISCO UIB PI-AF		AF	Score: PASS			
2. ABB40bu 3. ABB40bu	is_EQ_NM_11J21. is_TP_NM_11J21. is_SV_NM_11J21.	XML XML	Expo 1. 2. 3.	rt				
4. ABB40b	us_Incr_AddBreak	er_12J09.XML	4. 5.					
Comments	/Results/Issues:							
Checked the	Checked the addition of breaker and topology.							
Product doe	Product does not perform load flow.							
Supplemer	ntary files:							
ABB40_12_	_1_AddedBreaker.j	pg						
Date	Vendor	1		Test witr	ness			
13072010	Name SISCO	Signa Mubuk		Name Pierluigi I	Di Cicco	Signature Finhy & Cce		

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Test No:31	_1	Tool: SISCO L	JIB PI-	٩F	Score: PASS		
Export Export 1. ABB40bus_EQ_NM_11J21.XML 1. 2. ABB40bus_TP_NM_11J21.XML 2. 3. ABB40bus_SV_NM_11J21.XML 3. 4. Modifying ABB40bus_SV_NM_12J09.xml 4. 5. 5.							
Comments/	Results/Issues:						
Changed in A	BB40bus_SV_NM_	12J09.xml					
to	I.DependentOn I.DependentOn rdf:re				76f1a24e75af6190 19d1700ccc54d"/>		
	was previously impo del rdf:about="#_c37			431efc7a	2"> not being char	iged.	
Changed to:							
<md:fullmo< td=""><td>del rdf:about="#_c37</td><td>24b84989b43288</td><td>0a2b9a</td><td>431efc7a</td><td>9"></td><td></td></md:fullmo<>	del rdf:about="#_c37	24b84989b43288	0a2b9a	431efc7a	9">		
Re-imported a	and the missing dep	endsOn was dete	cted.				
	dependency from: I.DependentOn rdf:re	esource="#_61e4	ae76f1a	24e75af6	19d1700ccc54d"/>		
<md:mode< td=""><td>I.DependentOn</td><td>rdf:res</td><td>ource="</td><td>#_61e4ae</td><td>76f1a24e75af619</td><td>d1700ccc54c"/></td></md:mode<>	I.DependentOn	rdf:res	ource="	#_61e4ae	76f1a24e75af619	d1700ccc54c"/>	
Re-imported with no header problems detected.							
Supplemen	tary files:						
ABB40_31_1_FilePreviouslyImported.jpg, ABB40_31_1_DependsOnMissing.jpg							
Date	Vendor			Test wit	ness		
13072010	Name SISCO	Signa Nuhú		Name Pierluigi	Di Cicco	Signature Finlig & Cas	

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BCP

Test No: 1	3	Tool: SISCO UIB PI-AF Score: PASS					
Test files							
Import		Exp	ort				
1. ENTSOE	_16_EU_EQ_NE_12J						
	_16_EU_TP_NE_12J						
	16_BE_EQ_NE_12J						
	_16_BE_TP_NE_12J						
5. ENTSOE	_16_EU_SV_NE_12J	11h.xml 5.					
Comments	/Results/Issues:						
Checked Li	Checked Substation C4\Node3\SvVoltage & C4\Node3\SvPowerFlow Checked Line Parameters. Product does not perform load flow or export.						
Supplemen	itary files:						
BCP_1_3_F	BCP_1_3_PowerFlow.jpg , BCP_1_3_ACLineSegment.jpg						
Date	Vendor		Test witnes	S			
13072010	Name	Signature	Name	Signature			
	SISCO	Auful Jal	Pierluigi Di 0	Cicco Pinluiz Dice			

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DigSilent

Test No:1_	4	Tool: SISCO UIB PI-AF Score: PASS					
Test files Import: from 1.2.2 Export ENTSOE_16_PF_13J16h.zip 1. 1. ENTSOE_16_EU_EQ.xml 1. 2. ENTSOE_16_EU_TP.xml 2. 3. ENTSOE_16_NL_EQ.xml 3. 4. ENTSOE_16_NL_TP.xml 4. 5. 1.2.2 ENTSOE_16_PF_13J16h_SV.xml 5.							
Checked A	CLineSegment and	GeneratingUnit	S				
Product doe	Product does not support export or power flow.						
Supplemen	ntary files:						
DIGSILENT_1_4_ACLineSegment.jpg, DIGSILENT_1_4_GeneratingUnit.jpg							
Date	Vendor	1		Test wit	ness		
14072010	Name SISCO	Signa Muhut	CLACK REPORT	Name Pierluigi	Di Cicco	Signature Rinhy D: Coo	

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Test No:31_2	Tool: S	ISCO UIB PI-/	AF Score: F	PASS				
Test files		()e1						
Import: from 1.2.2		Expo	rt					
ENTSOE_16_PF_13J16								
1. ENTSOE_16_EU_EQ.xn		1.						
2. ENTSOE_16_EU_TP.xm		3.						
3. ENTSOE_16_NL_EQ.xm 4. ENTSOE_16_NL_TP.xm		4.						
5. 1.2.2 ENTSOE 16 PF		5.						
Comments/Results/Issu								
	Attempted to re-import 1.2.2 ENTSOE_16_PF_13J16h_SV.xml. Receive warning that it already exists							
Changed model header:								
rdf:about="http://www.pti-us	.com/2010/ENT	SOE_16_NL_S	V/1 to					
rdf:about="http://www.pti-us	.com/2010/ENT	SOE_16_NL_S	V/2					
AND changed								
<md:model.dependentor< td=""><th>n rdf:resource="l</th><td>http://www.pti-u</td><td>s.com/2010/ENTSOE</td><th>E_16_NL_TP/1" /></th></md:model.dependentor<>	n rdf:resource="l	http://www.pti-u	s.com/2010/ENTSOE	E_16_NL_TP/1" />				
То								
<md:model.dependentor< td=""><th>n rdf:resource="l</th><td>http://www.pti-u</td><td>s.com/2010/ENTSOE</td><th>E_16_NL_TP/2" /></th></md:model.dependentor<>	n rdf:resource="l	http://www.pti-u	s.com/2010/ENTSOE	E_16_NL_TP/2" />				
Changed the dependsOn b <md:model.dependentor< td=""><th>ack to h rdf:resource="l</th><td>http://www.pti-u</td><td>s.com/2010/ENTSOE</td><th>E_16_NL_TP/1" /></th></md:model.dependentor<>	ack to h rdf:resource="l	http://www.pti-u	s.com/2010/ENTSOE	E_16_NL_TP/1" />				
Imported with no errors.								
Our and a sector of the sec								
Supplementary files:								
DIGSILENT_31_2_ImportedPreviouslyCheck.jpg , DIGSILENT_31_2_FailedDependsOn.jpg								
Date Vendor			Test witness					
14072010 Name		Signature	Name	Signature				
SISCO		Mubrit Julk	Pierluigi Di Cicco	Pichy D'Gra				

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CESI

Test No:1_	5	Tool: SISCO UIB PI-AF Score: PASS					
Test files							
Import: fro	m		Expo	ort			
	16_EU_EQ_SP.xml		1.				
61	16_EU_TP_SP.xml		2.				
	16_NL_EQ_SP.xml		3.				
	16_NL_TP_SP.xml		4.				
5. ENTSOE	_16_SV_SP.xml		5.				
	Checked HydroGeneratingUnit and ACLineSegment Product does not support export or power flow.						
Supplementary files: CESI_SPIRA_1_5_HydroGeneratingUnit.jpg CESI_SPIRA_1_5_ACLineSegment.jpg							
Date	Vendor			Test witness			
14072010	Name		Signature	Name		Signature	
	SISCO		Mahrt Julk	Pierluigi Di C	ссо	Pinky DCco	

FGH

Test No:1_	6	Tool: SISCO UIB PI-AF Score: PASS						
Test files								
Import: fro	m		Ехро	rt				
1. ENTSOE	16_IN_14J09_EU_E	Q.xml	1.					
	16_IN_14J09_EU_T		2.					
	16_IN_14J09_NL_E		3.					
	_16_IN_14J09_NL_TI		4.					
5. ENTSOE	_16_IN_14J09_NL_S	V.xml	5.					
	Checked HydroGeneratingUnit and ACLineSegment Product does not support export or power flow.							
Supplementary files: FGH_1_6_GeneratingUnit.jpg FGH_1_6_ACLineSegment.jpg								
Date								
14072010	Name	S	Signature	Name		Signature		
	SISCO	1	Huht Jalk	Pierluigi Di Ci	icco	Pierby Di Gro		

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ABB MMS

Test No:31_3	Tool: SISCO UIB PI-A	F Score: PASS	
Test files			
Import: from		Export	
1.Export_ENTSO-E_16_EU_EQ		1.	
2. Export_ENTSO-E_16_EU_TP	_BM_13JUL11h.xml	2.	
3.		3.	
4. 5.		4.	
		5.	
Comments/Results/Issues:			
EQ file had the following rdf:abou	t="#http://www.abb.com/AB	B40Bus/BaseCase/topolog	У"
DependentOn rdf:resource="http:	//www.abb.com/ABB40Bus/	BaseCase/equipment"/>	
Since there was no "#" in the dep	endsOn, an appropriate war	rning was shown.	
Changed TP dependsOn to add " DependentOn rdf:resource="#http		s/BaseCase/equipment"/>	
Re-imported TP file and no wa	rning was displayed		
Supplementary files:			
ABB-MMS_31_3_DependsOn	Message.jpg , ABB-MMS	- <u>31_3_SuccessfulImpo</u>	rt.jpg
Date Vendor	Т	est witness	
14072010 Name	Signature N	ame	Signature
SISCO	Norbert Sulle P	ierluigi Di Cicco	Pialy DEas

Test No:Ur	nstruct_1_1	Tool: SISCO UIB PI-	١F	Score: PASS	6				
Test files									
Import: fro	m	Exp	ort						
	16_EU_EQ.xml – fro		1.	1.4.4					
	_16_EU_TP.xml – fro		2.						
		EQ_BM_13JUL11h.xml	3.						
	NTSO-E_16_NL_T	P_BM_13JUL11h.xml	4.						
5.			5.						
Comments	/Results/Issues:								
the Netherla Looked for There were	Imported original Entso-e boundary files (e.g. EU). Then imported the ABB exported files for the Netherlands. Looked for unresolved externals, which would have indicated boundary-to-model mismatch. There were no unresolved externals.								
ABB-MMS_	Then verified connectivity between boundary and Netherlands. Supplementary files: ABB-MMS_Unstruct_1_1_NoUnresolves.jpg ABB-MMS_Unstruct_1_1_ConnectivityCheck.jpg								
Date	Vendor		Test wit	ness					
14072010	Name	Signature	Name		Signature				
	SISCO	Abut Julk	Pierluigi	Di Cicco	Finlig D.C.ca				



OGS

Test No: U	nstruct_1_2	Tool: S	ISCO UIB PI-	AF	Score: PAS	S		
Test files								
Import: fro					Export			
1. ENTSOE	16_EU_EQ.xml – fro	om origina	I Entso-E		1.			
	16_EU_TP.xml – fro				2.			
	_16_BE_EQ_CP_				3.			
	_16_BE_TP_CP_^				4.			
5. ENTSOE	_16_BE_SV_CP_1	13J10h.xi	nl		5.			
Comments	/Results/Issues:							
Imported original Entso-e boundary files (e.g. EU). Then imported the ABB exported files for the Netherlands. Looked for unresolved externals, which would have indicated boundary-to-model mismatch. There were no unresolved externals.								
Then verifie	d connectivity betv	veen bou	ndary and Bel	gium.				
Supplementary files:								
	uctured_1_2_NoU uct_1_2_Connecti							
Date	Vendor			Test	witness			
14072010	Name		Sjgnature	Nam			Signature	
	SISCO		Aubert Julh	Pierl	uigi Di Cicco	2	Pinling Decc	

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ABB-MMS

Test No:1_	7	Tool: SISCO U	JIB PI-AF	Score: PAS	S				
Test files	Test files								
Import: fro	m		Export						
1.Export_ENT	SO-E_16_EU_EQ_BM	_13JUL11h.xml	1.						
2. Export_EN	TSO-E_16_EU_TP_BN	I_13JUL11h.xml	2.						
3.Export_ENTS	O-E_16_BE_EQ_BM_13J	IUL11h.xml	3.						
4. Export_ENT	SO-E_16_BE_TP_BM_13	JUL11h.xml	4.						
5. Export_ENT	SO-E_16_BE_SV_BM_13	JUL11h.xml	5.						
Comments/Results/Issues: Forced import for BE files even though the files had the same Model Header rdf:about value. The EU_EQ and BE_EQ files had the same rdf:about: rdf:about= <u>http://www.abb.com/ABB40Bus/BaseCase/equipment</u> The EU_TP and BE_TP files had the same rdf:about. rdf:about="http://www.abb.com/ABB40Bus/BaseCase/topology" Checked 3WindingTransformer and ACLineSegment Product does not support export or power flow.									
Supplemen	ntary files:								
	ABB-MMS_1_7_3WindingTransformer.jpg ABB-MMS_1_7_ACLineSegment.jpg								
Date	Vendor		Те	st witness					
14072010	Name	Signa	Signature Name Signature						
	SISCO	SISCO Pierluigi Di Cicco Tinhup du							

10 GE ENERGY

Test No: U	nstruct_1 <u>23</u> Tool: S	SISCO UIB PI-	AF Score: PASS					
Test files Import: from Export 1. ENTSOE_16_EU_EQ.xml – from original Entso-E 1. 2. ENTSOE_16_EU_TP.xml – from original Entso-E 2. 3. eg_ENTSOE_16_NL_test02_EQ.xml 3. 4. eg_ENTSOE_16_NL_test02_TP.xml 4. 5. eg_ENTSOE_16_NL_test02_SV.xml 5. Comments/Results/Issues: Comments/Results/Issues:								
Then verifie	Then verified connectivity between boundary and Belgium.							
Supplemen	ntary files:							
GEEnergy_Unstruct_1_2_PowerFlow.jpg GEEnergy_Unstruct_1_2_ACLineSegment.jpg								
Date	Vendor		Test witness					
14072010	Name SISCO	Signature MututZollh	Name Pierluigi Di Cicco	Signature Pinkiy Di Cos				

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11 INTERCOMPRO

Test No:1_	D:1_8 Tool: SISCO UIB PI-AF Score: PASS							
Test files								
Import: fro	m	E	Export					
1. ENTSOE_	16_BE_EQ.xml – origina							
2. ENTSOE_	16_EU_EQ.xml – origin							
3. ENTSOE_16	S_TP_IS_14J14h.XML		3.					
	S_SV_IS_14J14h.XML							
5.		Ę	5.					
there are no	es not support expo	BE_TP, or BE_S\		s. This is by d	esign. Therefore,			
Supplemer		. And the second						
intercompro _1_8_3WindingTransformer.jpg intercompro_1_8_ACLineSegment.jpg								
Date	Date Vendor Test witness							
15072010	Name	Signatu	ire Name		Signature			
	SISCO	Nulit	July Pierluig	gi Di Cicco	Frenhing Dilias			

12ALSTOMGRID

Test No: 1	9	Tool: SISCO L	JIB PI-AF	Score: PASS			
Test files							
Import: fro	m			Export			
	16_EU_EQ.xml – fron			1.			
2. ENTSOE	16_EU_TP.xml – from	original Entso-		2.			
	E_EQ_14072010.xm			3.			
	E_TP_14072010.xm			4.			
5. export_B	E_SV_14072010.xm	nl		5.			
Comments	/Results/Issues:						
edited the f		f "a", "b", and "o	" for the	er. This is not valid rd EQ, TP, and SV files r ader.			
Alstom TP a	and SV files used rdf	ID instead of r	df:about.				
Imported or files for Bel		dary files (e.g.	EU). Th	en imported the Alsto	mGrid exported		
	unresolved external no unresolved exter		have inc	licated boundary-to-m	odel mismatch.		
Then verifie	ed connectivity betwe	en boundary a	nd Belgiu	ım.			
Checked 3	VindingTransformer/	TransformerW	indings a	s well as StateVoltage			
Product doe	es not support expor	t or power flow					
Supplemen	ntary files:						
AlstomGrid_1_9_3WindingTransformert.jpg AlstomGrid_1_9_StateVoltage.jpg							
AlstomGrid_1_9_NoUnresolved.jpg AlstomGrid_1_9_ConnectivityCheck.jpg							
Date	Vendor		Т	est witness			
15072010	Name	Signa		ame	Signature		
	SISCO	Ahubi	1 0	ierluigi Di Cicco	Pigly Di Geo		

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Test files Export 1. ABB40bus_EQ_NM_14J13.XML 1. 2. ABB40bus_SV_NM_14J15.xml 3. 3. ABB40bus_SV_NM_14J15.xml 3. 4. 5. Comments/Results/Issues: 5. Verified ACLineSegment, verified instance counts 5. Product does not support load flow. 5. Supplementary files: ABB40_28_1_AClineSegment.jpg ABB40_28_1_AClineSegment.jpg Test witness Date Vendor 15072010 Name Signature Signature Name Signature Signature Name Signature	Test No:28	_1	Tool: SISCO UIB	PI-AF	Score: PAS	S				
1. ABB40bus EQ_NM_14J13.XML 1. 2. ABB40bus TP_CN2TP_NM_14J08.xml 2. 3. ABB40bus_SV_NM_14J15.xml 3. 4. 5. 5. 5. Comments/Results/Issues: Verified ACLineSegment, verified instance counts Product does not support load flow. Supplementary files: ABB40_28_1_ACLineSegment.jpg ABB40_28_1_InstanceCounts.jpg Date Vendor Vendor Test witness 15072010 Name	Test files									
2. ABB40bus TP_CN2TP_NM_14J08.xml 2. 3. ABB40bus_SV_NM_14J15.xml 3. 4. 5. 5. 5. Comments/Results/Issues: Verified ACLineSegment, verified instance counts Product does not support load flow. Supplementary files: ABB40_28_1_ACLineSegment.jpg ABB40_28_1_InstanceCounts.jpg Date Vendor Test witness 15072010 Name				port						
3. ABB40bus_SV_NM_14J15.xml 3. 4. 5. 5. 5. Comments/Results/Issues: Verified ACLineSegment, verified instance counts Product does not support load flow. Supplementary files: ABB40_28_1_ACLineSegment.jpg ABB40_28_1_InstanceCounts.jpg Date Vendor Test witness 15072010 Name										
4. 5. 5. Comments/Results/Issues: Verified ACLineSegment, verified instance counts Product does not support load flow. Product does not support load flow. Supplementary files: ABB40_28_1_AClineSegment.jpg ABB40_28_1_InstanceCounts.jpg Date Vendor Test witness 15072010 Name										
5. 5. Comments/Results/Issues: Verified ACLineSegment, verified instance counts Product does not support load flow. Supplementary files: ABB40_28_1_AClineSegment.jpg ABB40_28_1_InstanceCounts.jpg Date Vendor Test witness 15072010 Name		us_SV_INIM_14J15.								
Comments/Results/Issues: Verified ACLineSegment, verified instance counts Product does not support load flow. Supplementary files: ABB40_28_1_ACLineSegment.jpg ABB40_28_1_InstanceCounts.jpg Date Vendor To72010 Name Signature										
Verified ACLineSegment, verified instance counts Product does not support load flow. Supplementary files: ABB40_28_1_AClineSegment.jpg ABB40_28_1_InstanceCounts.jpg Date Vendor T5072010 Name Signature Name										
Product does not support load flow. Supplementary files: ABB40_28_1_AClineSegment.jpg ABB40_28_1_InstanceCounts.jpg Date Vendor 15072010 Name Signature	Comments	/Results/issues:								
Product does not support load flow. Supplementary files: ABB40_28_1_AClineSegment.jpg ABB40_28_1_InstanceCounts.jpg Date Vendor 15072010 Name Signature										
Supplementary files: ABB40_28_1_AClineSegment.jpg ABB40_28_1_InstanceCounts.jpg Date Vendor Test witness 15072010 Name Signature Name	Verified AC	LineSegment, verif	ied instance counts							
Supplementary files: ABB40_28_1_AClineSegment.jpg ABB40_28_1_InstanceCounts.jpg Date Vendor Test witness 15072010 Name Signature Name										
Supplementary files: ABB40_28_1_AClineSegment.jpg ABB40_28_1_InstanceCounts.jpg Date Vendor Test witness 15072010 Name Signature Name	Duradivistida		<i>6</i> 1							
ABB40_28_1_AClineSegment.jpg ABB40_28_1_InstanceCounts.jpg Date Vendor Test witness 15072010 Name Signature	Product do	es not support load	now.							
ABB40_28_1_AClineSegment.jpg ABB40_28_1_InstanceCounts.jpg Date Vendor Test witness 15072010 Name Signature										
ABB40_28_1_AClineSegment.jpg ABB40_28_1_InstanceCounts.jpg Date Vendor Test witness 15072010 Name Signature										
ABB40_28_1_AClineSegment.jpg ABB40_28_1_InstanceCounts.jpg Date Vendor Test witness 15072010 Name Signature										
ABB40_28_1_AClineSegment.jpg ABB40_28_1_InstanceCounts.jpg Date Vendor Test witness 15072010 Name Signature										
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ABB40_28_1_AClineSegment.jpg ABB40_28_1_InstanceCounts.jpg Date Vendor Test witness 15072010 Name Signature										
ABB40_28_1_AClineSegment.jpg ABB40_28_1_InstanceCounts.jpg Date Vendor Test witness 15072010 Name Signature										
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ABB40_28_1_AClineSegment.jpg ABB40_28_1_InstanceCounts.jpg Date Vendor Test witness 15072010 Name Signature										
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ABB40_28_1_AClineSegment.jpg ABB40_28_1_InstanceCounts.jpg Date Vendor Test witness 15072010 Name Signature										
ABB40_28_1_AClineSegment.jpg ABB40_28_1_InstanceCounts.jpg Date Vendor Test witness 15072010 Name Signature										
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ABB40_28_1_AClineSegment.jpg ABB40_28_1_InstanceCounts.jpg Date Vendor Test witness 15072010 Name Signature										
ABB40_28_1_AClineSegment.jpg ABB40_28_1_InstanceCounts.jpg Date Vendor Test witness 15072010 Name Signature										
ABB40_28_1_AClineSegment.jpg ABB40_28_1_InstanceCounts.jpg Date Vendor Test witness 15072010 Name Signature										
ABB40_28_1_InstanceCounts.jpg Date Vendor Test witness 15072010 Name Signature	Suppleme	ntary files:								
ABB40_28_1_InstanceCounts.jpg Date Vendor Test witness 15072010 Name Signature	ABB/0 28	1 AClineSegment	ing							
Date Vendor Test witness 15072010 Name Signature										
15072010 Name Signature Name Signature										
15072010 Name Signature Name Signature										
15072010 Name Signature Name Signature										
	Date	Vendor		Test wi	tness					
SISCO Mobul Jerth Pierluigi Di Cicco Pionluigi & Ca	15072010		Signature			Signature				
1 mon series 0.00		SISCO	M1 +9	Pierluigi	Di Cicco	Pinluis D'C				
			mon ser			0				

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		T		1	l.	
Test No:24		Tool: SISCC			Score: PASS	\$
	from: 1.2.25 ENTSC	DE_16_PF_15				
Import			Expo	ort		
	=_16_EU_EQ.xml +		1.			
	E_16_BE_EQ.xml + E_16_NL_EQ.xml +		2. 3.			
	E 16 BE DY.xml	11	4.			
	= 16 NL DY.xml		5.			
Comments	s/Results/Issues:					
to rdf:resou ENTSOE_	U EQ and TP. The irce="". Manually ec 16_BE_EQ_fixed.xn	dited the file to nl. Then impo	remove rted the	e the line. fixed file.	d an rdf error o Saved fixed file	on line 1045 due ∋ as
Verified the	e existence of appro	priately constr	ucted M	etaBlock.		
Product do	es not support load	flow.				
Supplemer	ntary files:					
DiaSilent 2	4_1_MetaBlock.jpg					
Digolicit_2						
Date	Vendor			Test wit	ness	
15072010	Name	Sign	ature	Name		Signature
	SISCO	Afub	18 Jula	Pierluigi	Di Cicco	Finluig R'Ca
	•	1				1

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TOOL SUMMARY FORM (PER TOOL)

Vendor: CESI			Тоо	Tool:SPIRA				
Witnesse	d by							
Name	,	Signature	e Nam	e	Signature			
1.Pietro C	apurso		9.					
	Portoghese		10.					
3.			11.					
4.			12.					
5.			13.					
6.			14.					
7.			15.					
8.			16.					
Performe	d tests							
Test No	Score	Test No	Score	Test No	Score			
1_1	Pass							
1_2	Pass							
1_3	Pass							
1_4	Pass							
2_1	Pass							
2_2	Pass							
3_1	Pass							
4_1	Pass							
5_1	Pass		_					
6_1	Pass							
7_1	Pass							
7_2	Pass							
8_1	Pass		_					
8_2	Pass	-						
9	Pass (Partial)							
SIPRA do During the	Comments: SIPRA doesn't still manage the header, but CESI will implement soon this function. During the export of SV file, a new attribute svTapStep is created with rdf:ID="null". This doesn't generate any problem to other vendors that import this file, anyway CESI is working							
	e a SV file without				Ŭ			
In general all test done was successfully performed.								
Date	Vendor			ENTSO-E				
16 July	Name		Signature	Name	Signature			
	CESI		hep	Chavdar Ivanov	Ver			

Test No:1_	1	Tool:SPIRA	Score: Pas	S				
Test files								
Import		Ex	oort					
	E_16_NL_EQ.xml (v							
	16_NL_TP.xml (v							
3. ENTSOE	_16_EU_EQ.xml (\	ver 12July) 3.						
	_16_EU_TP.xml (v							
	16_NL_SV.xml (v	er 12July) 5.						
6.		6.						
7.		1.						
The followir • Loa • Volt • Gen • The • Tie f	 Voltage on the electrical node; Generation data of area NL; The Flow trough the Phase Shifter Transformer between NODE 4 and NODE 8; 							
PS: SIPRA	doesn't still manage	e the header, but CE	SI will implement soon t	his function.				
Supplemen	ntary files:							
Screen shot: SP_TEST01_1_SCREENSHOTH.doc								
Date	Vendor		Test witness					
13 July	Name	Signature	Name	Signature				
	CESI	Lip	Pietro Capurso	T.S.				



Test No:1_2	2	Tool:SPIRA		5	core: Pass	
Test files						
Import			Expo	ort		
	_16_EU_IN_13J16		1.	1		
	_16_EU_IN_13J16		2.			
	16_NL_IN_13J16		3.			
	16_NL_IN_13J16		4.			
	_16_NL_IN_13J16	_TP.xml	5.			
6. 7.			6. 7.			
1.			1.			
Comments/	Results/Issues:					
It was import	ed the model prod	luced by FGH d	uring t	he test 2_1.		
The import v ENSTOE_16	vas successful and 3.	d the load flow s	solutio	n give result	comparable	e with the model
 The following issues of the input model are not compliant with the official test model ENTSOE_16: The input model doesn't contain generator type; The input model has the load of NODE 8 divided in 3 different node; The input model doesn't contain the name of the electric node (NODE 1, NODE 2 etc) 						
PS: SIPRA doesn't still manage the header, but CESI will implement soon this function.						
Supplement	ary files:					
Load Flow C	olution OD TEOT			Lout		
Screen shot	olution: SP_TEST	creenshot ECH	doc	1.0UL		
Screen shot: SP_TEST01_2_screenshot_FGH.doc						
Date	Vendor			Test witne	SS	
14 July	Name	Signa	ture	Name		Signature
	CESI	her		Pietro Cap	urso	Ale



Test No:1_3	3	Tool:SPIRA Score: Pass				
Test files Import 1. ENTSOE 2. 3. 4. 5. 6. 7.	_16_PF_13J08h.z					
Comments/Results/Issues: It was imported the model produced by Digsilent during the test 02. The import was successful and the load flow solution give result comparable with the model ENSTOE_16. The following issues of the input model are not compliant with the official test model ENTSOE_16: • The input model doesn't contain generator type; • The input model doesn't contain the name of the electric node (NODE 1, NODE 2 etc)						
	doesn't still mana	ige the header, but	CESI will implement	soon this function.		
Date 14 July	Vendor Name CESI	Signate	Test witness ure Name Pietro Capurso	o Signature		



Test No:1_	4	Tool:SPIRA	Score: I	Pass		
Export Export 1. eg_ENTSOE_16_NL_test02_EQ.xml 1. 2. eg_ENTSOE_16_NL_test02_SV.xml 2. 3. eg_ENTSOE_16_NL_test02_TP.xml 3. 4. 5. 5. 5. 6. 6.						
7. Comments/Results/Issues: It was imported the model produced by GE Energy during the test 02. The import was successful and the load flow solution give result comparable with GE Results. PS: SIPRA doesn't still manage the header, but CESI will implement soon this function.						
Supplementary files: Load Flow Solution: SP_TEST01_4_LFSolution_GE.out						
Date 15 July	Vendor Name CESI	Signatu	Test witnessreNamePietro Capurso	Signature		



Test No:2 1		Tool:SPIRA		Score: Pass		
Test files Import 1. ENTSOE 2. ENTSOE 3. ENTSOE 4. ENTSOE 5. ENTSOE 6. 7.	16_NL_EQ.xml (ve 16_NL_TP.xml (ve 16_EU_EQ.xml (ve 16_EU_TP.xml (ve 16_NL_SV.xml (ve	er 12July) er 12July) er 12July)	2. ENTSOE_1	6_NL_EQ_SPv1.xm 6_NL_TP_SPv1.xm 6_SV_SPv1.xml		
Comments/Results/Issues: Cimspy was used to check all the instance counts and some instance details as below. Phase Shifter Tap position ControlArea GeographicRegion BaseVoltage VoltageLevel It is noted that the original model contains class of <i>OperatingParticipant</i> and <i>Zone</i> . These two classed are not in the July 12 2010 version of Entso-E profile. The exported files do not contain these two classes. A new attribute svTapStep was created with rdf:ID="null". This doesn't generate any problem to other vendors that import this file, anyway CESI is working to produce a SV file without this dirt. The SV file contain also the class <i>LoadFlowSettings</i> produced by CESI but the validation is ok. rdf:ID are also checked between original models and exported models for most of the elements. PS: SIPRA doesn't still manage the header, but CESI will implement soon this function.						
Also Bound	htary files: SP_Test02_1_Valio solution: SP_Test0 lary files are expor 16_EU_EQ_SPv1. 16_EU_TP_SPv1.)	12_1_LFSolution ted: xml	out			
Date 13 July	Vendor Name CESI		Ature Name	witness e o Capurso	Signature	



Test No:2_2		Tool:SPIRA		Score: Pass			
Test files Import 1. ENTSOE 2. ENTSOE 3. ENTSOE 4. ENTSOE 5. ENTSOE 6. Comments/	16_NL_EQ.xml(16_NL_TP.xml(16_EU_EQ.xml(16_EU_TP.xml(16_NL_SV.xml(Results/Issues:	ver 13July) /er 13July) ver 13July) ver 13July) ver 13July)	Export 1. ENTSOE_16_NL_EQ_SPv2.xml 2. ENTSOE_16_NL_TP_SPv2.xml 3. ENTSOE_16_SV_SPv2.xml 4. 5. 6.				
Cimspy was used to check all the instance counts and some instance details as below. Phase Shifter Tap position ControlArea GeographicRegion BaseVoltage VoltageLevel It is noted that the original model contains class of <i>OperatingParticipant</i> and <i>Zone</i> . These two classed are not in the July 13 2010 version of Entso-E profile. The exported files do not contain these two classes. A new attribute svTapStep was created with rdf:ID="null". This doesn't generate any problem to other vendors that import this file, anyway CESI is working to produce a SV file without this dirt.							
The SV file ok. rdf:ID are a elements. The Bounda	also checked be ary files produced	tween original m are compliant wit	odels and ex h the profile	ced by CESI but th cported models fo plement soon this	r most of the		
Supplementary files: Valitation: SP_Test02_2_Validation.doc Load Flow solution: SP_Test02_2_LFSolution.out Also Boundary files are exported: ENTSOE_16_EU_EQ_SPv2.xml ENTSOE_16_EU_TP_SPv2.xml							
Date 13 July	Vendor Name CESI	Signa ///	ture Name	witness e o Capurso	Signature		



Test No:3_1	Tool:SP	IRA	Score: Pass		
Test files Import 1. ENTSOE 2. ENTSOE 3. ENTSOE 4. ENTSOE	16_NL_EQ.xml (ver 12July) 16_NL_TP.xml (ver 12July) 16_EU_EQ.xml (ver 12July) 16_EU_TP.xml (ver 12July) 16_NL_SV.xml (ver 12July)) 1. 2.) 3.) 4.			
Comments/Results/Issues: The comparison was made between the following tool in relation to the Test 01: SPIRA and Enterprise Gateway. The results are comparable and mach in the engineering tolerance. PS: SIPRA doesn't still manage the header, but CESI will implement soon this function.					
Supplementary files: Screen shot: SP_TEST03_1_SCREENSHOTH.doc					
Date 13 July	Vendor Name CESI	Signature	Test witness Name Pietro Capurso	Signature	



Test No:4_	1 Tool: 0	CESI	Score: Pass	3		
Test files:		Eve	ant .			
2. ENTSOE 3. ENTSOE	_16_NL_EQ.xml (ver 13Ju _16_NL_TP.xml (ver 13Ju _16_NL_SV.xml (ver 13Ju	ıly) 1. El ly) 2. El ly) 3. El	Export 1. ENTSOE_16_NL_TP_SPv1_16J9h.xml 2. ENTSOE_16_EU_TP_SPv1_16J9h.xml 3. ENTSOE_16_SV_SPv1_16J9h.xml			
	_16_EU_EQ.xml (ver 13Ju _16_EU_TP.xml (ver 13Jul					
Comments/Results/Issues: The following Topology change is made: Change status of Breaker between NODE 6 and NODE 9 from Open to Close Load Flow results are in the output file SP_test04_1_LFSolution.out						
	te Variable file, All the origi such as SvPowerFlow, Sv1			also, some other		
	oute svTapStep was created adors that import this file, ar					
The SV file ok.	The SV file contain also the class <i>LoadFlowSettings</i> produced by CESI but the validation is ok.					
PS: SIPRA	PS: SIPRA doesn't still manage the header, but CESI will implement soon this function.					
Supplementary files: Power flow result: SP_test04_1_LFSolution.out CimSpy data: SP_test04_1_validation.doc						
Date	Vendor		Test witness			
July 16	Name CESI	Signature	Name Pietro Capurso	Signature		



Test No:5_	1	Tool: SPIRA		Score: Pass		
Test files:						
Import	C. S. Strengtheren		Export			
1. ENTSOE	_16_NL_EQ.xml (13 July)		6_SV_SPv1_16J9h.xml		
	_16_NL_TP.xml (1		2.			
	_16_NL_SV.xml (1		3.		[
	_16_EU_EQ.xml (1 _16_EU_TP.xml (1		4. 5.]	
		5 July)	5.			
	Results/Issues:					
and the second	ng StateVariable ch	•		- CONNAL		
	inge Load MW of "L			m 150 MW to 175 MW.		
Ulla	inge the generation	or generator or	INE NODE 9 110			
Load Flow s	solves and results a	re in the output	file SP_test05_	1_LFSolution.out		
Ear the Sta	to Variable file. All	the original info	rmation (rdf:ID)	are undeted and the valids	tion	
in ok.	te variable file, All	the original info	rmation (rdf:ID)	are updated and the valida	ation	
in ok.						
A new attrik	oute svTapStep was	s created with ro	df:ID="null". This	doesn't generate any prob	lem	
to other ver				o produce a SV file without		
dirt.						
The CV file	anatain alaa tha al					
ok.	contain also the ci	ass LoadFlows	ettings produce	d by CESI but the validation	on is	
OIX.						
PS: SIPRA	doesn't still manage	e the header, bu	t CESI will impl	ement soon this function.		
Supplemen						
	result: SP_test05_1		t			
CimSpy dat	CimSpy data: SP_test05_1_validation.doc					
Date	Vendor		Test wit			
July 16	Name	Signa		Signat	ture	
	CESI	pref	Pietro C	apurso	1	
				ų –		



Test No:6_1	Tool:SPIRA	Score: Pass	
Test files			
Import		port	
1. SELF TEST	1. N	J/A	
2. ENTSOE_16_NL_EQ.xml			
3. ENTSOE_16_NL_TP_SPv			
4. ENTSOE_16_SV_SPv1_16			
5. ENTSOE_16_EU_TP_SPv			
6. ENTSOE_16_EU_EQ.xml			
7.	7.		
Comments/Results/Issues:			
It was imported the TP and SV			
The EQ file is the same of the	original test model (E	NTSOE_16 version 1 – 13 July)	
Load Flow results are the sam	ne of the model modify	y as in test 4_1	
DC: CIDDA desen't still manage	ne the header but CE	Cl will implement even this function	
PS. SIPRA doesn't suir manaç	ge the header, but CE	SI will implement soon this function.	
Supplementary files:			
Device flow requilt CD to stor	4 LEColution colfice	4	
Power flow result: SP_test06_	_I_LFSolution_selites	51.0UL	
Date Vendor		Test witness	
16 July Name	Signature		Ire
CESI		Pierluigi Portoghese	
	Jul	In the second se	n
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Test No:7_	1	Tool:SPIRA		Score: Pass		
Test files						
Import			Export			
	_16_NL_EQ.xml (1. N/A			
	_16_NL_TP.xml (1		2.			
	_16_SV_SPv1_16		3.			
	_16_EU_EQ.xml (*		4.			
	_16_EU_TP.xml (1	3 July)	5.			
6.			6.			
			7.			
Comments/Results/Issues: Test 7_1 is made as a Self Test importing SV file produced during the Test 05_1. The EQ and TP files are the same of the original test model (ENTSOE_16 version 2 – 13 July) After importing process it was cheked that the modification of test 05_1 was applied. The LF results are the same of the test 05_1. PS: SIPRA doesn't still manage the header, but CESI will implement soon this function.						
Supplemen	tary files:					
Power flow	result: SP_test07_	1_LFSolution_se	elftest.out			
Date	Vendor		Test w	itness		
16 July	Name	Signa	ture Name		Signature	
	CESI	fre	Pierluig	i Portoghese	findthe	
			0			

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Test No:7_2	2	Tool:SPIRA			Score: Pass		
Test files							
Import				Export			
	_16_NL_EQ_SPv2		1. N/	A			
	_16_NL_TP_SPv2		2.				
	ISOE_16_PF_13j1		3.				
	_16_EU_EQ_SPv2		4.				
	_16_EU_TP_SPv2	.xmi	5. 6.				
6.			7.				
			1.				
 Comments/Results/Issues: Test 7_2 is made importing SV file produced by Digsilent during the Test 5b and TP/EQ produced by SPIRA during test 02_2 The following modification are been verified: Generator 1 at node 9 from P = 140 MW to P = 160 MW. Generators at node 9 changed voltage setpoint for node 1 from V = 1.047 pu to V = 1.04 pu. Load 2 at node 4 from P = 10 MW to P = 20 MW. The Solution was solved and the load flow results (voltage and Power flow) are very close to the output of DigSilent "1.2.5 ENTSOE_16_NL_LDF_Results.wmf" and the maximum difference between the solutions is related to the reactive power trough the busbar coupler (NODE 8 – NODE 5) about 2 MVar 							
PS: SIPRA	doesn't still manag	e the header,	but CES	l will impl	ement soon this fu	unction.	
Supplemen	ntary files:						
Power flow result: SP_test07_2_LFSolution_selftest.out							
Date	Vendor			Test wit	tness		
16 July	Name	Sia	nature	Name		Signature	
, c c sirj	CESI	9	0	Pietro C	apurso	20	
		pu	4			1ºCA	

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Test No:8_	1	Tool:SPIRA	Score: Pass	;		
2. ENTSOE 3. ENTSOE 4. ENTSOE	_16_BE_EQ.xml (v _16_BE_TP.xml (v _16_BE_SV.xml (v _16_EU_EQ.xml (v _16_EU_TP.xml (v	er 13July) er 13July) /er 13July)	ort			
Comments/Results/Issues: The following items were checked: • Load data of area NL and BE • Generation data of area NL • The Flow trough the Phase Shifter Transformer between NODE 4 and NODE 8 (maximum difference of reactive power about 2 MVar) • Tie flow data between area NL and EU The power flow of the Merged Model gave results close to the original data of the model. The exported files are verified using CIMSpy. • The exported EQ Belgium file has less OperationalLimitSet (11 instead of 13) and CurrentLimit (33 instead of 39) that correspond to the current limits of 220 kV tieline.						
 A new attribute svTapStep was created with rdf:ID="null". This doesn't generate any problem to other vendors that import this file, anyway CESI is working to produce a SV file without this dirt. TO BE COMPLETED (Last two steps) PS: SIPRA doesn't still manage the header, but CESI will implement soon this function. 						
Supplementary files: Screen shot: SP_TEST09_SCREENSHOTH.doc Load Flow Solution: SP_test09_1_LFSolution1.out CIMSpy Validation: SP_test09_1_validation.doc						
Date 16 July	Vendor Name CESI	Signature	Test witness Name Pietro Capurso	Signature		

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Test No:8_	2	Tool:SPIRA		Score: Pass		
Test files						
Import			Export			
	_16_BE_EQ.xml (v		N/A			
	_16_BE_TP.xml (v					
	_16_BE_SV.xml (v					
	_16_EU_EQ.xml (v					
5. ENTSOE	_16_EU_TP.xml (v	er 13July)				
	/Results/Issues: was correctly imp	orted except fo	or Mutual coupl	ing that are not r	managed by	
 The SC analysis was performed considering the following parameters: 1. SC According to IEC60909; 2. Shunt branches of the lines are considered; 						
The 3-phase DigSilent.	e shorts circuit res	sult for the NOE	E 2 is compara	ble with the result	obtained by	
The Digsiler	nt unbalanced shor	ts circuit results	are not availab	le.		
Unfortunate simulation.	ly there isn't any	referring case	useful to eva	luate the good r	esult of the	
Supplement SC Solution	t ary files: ∷ SP_test08_2_scS	Solution.out				
Date	Vendor		Test wit	iness		
16 July	Name	Signa			Signature	
	CESI	Nec		Portoghese	Polita	
l l			Letter L		1 1	



Test No:9		Tool:SPIRA			Score:	Pass (Pa	artial)
Test files							
Import			Expo	rt			
1. ENTSOE	_16_BE_EQ.xml (ve	er 13July)			6 SV SI	- 16J10h	.xml
2. ENTSOE		er 13July)	2. EN	TSOE 1	6 BE E	Q SP 16	J10h.xml
						P SP 16.	
	_16_NL_TP.xml (ve		4. EN	TSOE_1	6_NL_E	Q_SP_16	J10h.xml
5. ENTSOE	_16_EU_EQ.xml (v	er 13July)	5. EN	TSOE_1	6_NL_TF	P_SP_16.	J10h.xml
	_16_EU_TP.xml (ve		6. EN	TSOE_1	6_EU_E	Q_SP_16	J10h.xml
7. ENTSOE	_16_NL_SV.xml (ve	er 13July)	7. EN	TSOE_1	6_EU_TI	P_SP_16	J10h.xml
8. ENTSOE	_16_BE_SV.xml (ve	er 13July)					
 Load Gen The (ma Tie f The power The exported The exported • The Curr A ne prob 	 Generation data of area NL The Flow trough the Phase Shifter Transformer between NODE 4 and NODE 8 (maximum difference of reactive power about 2 MVar) Tie flow data between area NL and EU The power flow of the Merged Model gave results close to the original data of the model. The exported files are verified using CIMSpy. The exported EQ Belgium file has less OperationalLimitSet (11 instead of 13) and CurrentLimit (33 instead of 39) that correspond to the current limits of 220 kV tieline. 						
501	ne without this dift.						
	TO BE COMPLETED (Last two steps) PS: SIPRA doesn't still manage the header, but CESI will implement soon this function.						
Supplemer	ttary files: t: SP_TEST09_SCR	FENSHOTH de	20				
	Solution: SP test09						
	idation: SP_test09_						
Date	Vendor			Test wi	tness		
16 July	Name	Signat	ture	Name			Signature
	CESI	ref)	Pietro C	apurso		Baffer
						-11	

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TOOL SUMMARY FORM (PER TOOL)

Name Signature 1.Oana Stanescu Image: Signature 2. Image: Signature 3. Image: Signature 3. Image: Signature 3. Image: Signature 4. Image: Signature 5. Image: Signature 6. Image: Signature 7. Image: Signature 8. Image: Signature 9. Image: Signature 10. Image: Signature 13. Image: Signature 14. Image: Signature 15. Image: Signature 16. Image: Signature 12.9_1 Passed 12.9_1 Passed Image: Signature Image: Signature Image: Signature Image:	Vendor:	TIBCO Softwa	re	Tool: Col	Tool: Collaborative Information Manager			
Name Signature 1.Oana Stanescu A. 2.	Witnesse	d by						
1.0ana Stanescu 1.0ana Stanescu 9. 2. 10. 3. 11. 4. 12. 5. 13. 6. 14. 7. 15. 8. 16.	Name		Signature	Name		Signature		
3. 4. 4. 11. 5. 13. 6. 14. 7. 15. 8. 16. Performed tests Test No Score Test No 12.1_1 Passed	1.Oana S	tanescu		9.				
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Performed tests Test No Score Test No Score 1.2.1_1 Passed Test No Score	6.			14.				
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Comments:

TIBCO is testing with Master Data Management application, which doesnot support powerflow. Also the import of StateVariables and Dynamics have no functional role in a Master Data Management environment due to their transactional nature.

Although TIBCO Collaborative Information Manager does support full loop lifecycle management of master data, which includes exporting it to and synchronizing with external applications, the functionality to perform these exports in the CIMXML format was not yet implemented at the time of the IOP.

For these reasons the only IOP tests that were applicable are test 1.2.1 (Import of full model of a single MAS) and test 1.2.9 (import of full model of multiple MAS's and merge them).

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Date	Vendor		ENTSO-E	
07/16/10	Name	Signature	Name	Signature
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Test No:1.2.1	Tool: TIBCO Collaborative Information Manager	Score:Pass
Test files		
Import	Export	
1.TestModels\ENTSO-	1.	
E16model\Version_2_13_July		
\Merged\ENTSOE_16_NL_EC	J.XMI	
2 Test Asdele) ENTRO	2.	
2.TestModels\ENTSO-		
E16model\Version_2_13_July		
\Merged\ENTSOE_16_NL_TF	² .xmi	
2	2	
3. 4.	3.	
5.	4.	
5.	5.	
Comments/Results/Issues:		
Also the import of StateVari Management environment due Verified numnber of Topologic	iables and Dynamics have no t e to their transactional nature.	vhich doesnot support powerflow. functional role in a Master Data blogicalNode.
Supplementary files:		
TIBCO_Test1_2_1_Topologic	calNodes_NL.png	

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	ID IdentifiedObject.pathlame IdentifiedObject.pathlame IdentifiedObject.pathlame IC InterSizeGateSizitizEcCoblectSizeLassilame IdentifiedObject.pathlame	IdentifiedObjectiname Modified By	equals FX-34	Select a value	Case-senetive		
Name IdentifiedObject.name IdentifiedObject.name	Interactives/211/s1652000058a 0.7200 B4; MAPST_11 B4	IdentifiedObjectname Modified by Modification Date Search Cisar View All firecula	equals Fox in equals	y Select a value	Case-senetive		1
		IdentifiedObjectiname Modified By Modification Date Search Clear You, All Records	equals	Seect a value	T Cass-senselve	identifiedCbisctaliasIame	IdentifiedDigect name
		IdentifiedObjectname Medified By Modification Date Search Clear View, All Recents Create Resorts 10	equals Fox se equals	Seect a value	T Cass-senselve		identifiedDiject name
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68	F 15555153711345216555312383 V7.184057_21 V7	IdentifiedObjectname ModifiedDy Modification Date	equals equals equals equals defenting Be, Harris Be, Harris ESS K3, Harris	Seect a valve	T Cass-senselve	B4 K3	J IdentifiedObject name
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Test No: 9	1 (unstructured) Tool: E	UROSTAG 4	.6 Score: Pass				
Test files							
Import		Exp	ort				
	_16_full_EQ.xml	1.					
	_16_full_TP.xml	2.					
E	_16_full_SV.xml	3.					
4.		4.					
5.		5.					
Comments	/Results/Issues:						
This test aims in the import of full ENTSOE16 node model meaning that ENTSOE_16_full_EQ.xml is the concatenated Equipment file (ENTSOE_16_BE_EQ.xml, ENTSOE_16_EU_EQ.xml & ENTSOE_16_NL_EQ.xml), ENTSOE_16_full_TP.xml is the concatenated Topology file (ENTSOE_16_BE_TP.xml, ENTSOE_16_EU_TP.xml & ENTSOE_16_NL_TP.xml) and State Variable file is the concatenated SV file (ENTSOE_16_BE_SV.xml & ENTSOE_16_NL_SV.xml).							
	There were three warnings due to the ENTSOE profile issue (ratedApparentPower attributes were not set in the official ENTSOE 16 node test model).						
We did the count of imported (into EUROSTAG 4.6) objects and it did not show any discrepancy with the original object count. We validated the correctness of obtained topology validate connection points of three winding transformer, shunt Compensators, generators, loads and both boundary nodes and tie-lines (see the screenshots in the file import_full_16node_ENTSOE_model.docx)							
	tary files: 16node_ENTSOE_model.c _ENTSOE_model.lf – load		shots of topology check				
Date	Vendor		Test witness				
16 th July	Name	Signature	Name	Signature			
2010	Christian Merckx	Jelekx	Tomasz Rogowski	Keymen I.			
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SINGLE TEST RECORD FORM

Test No: 9_2 (unstructured)	(unstructured) Tool: EUROSTAG 4.6		Score: PASS with errors	
Test files				
Import 1. ENTSOE_16_full_EQ.xml 2. ENTSOE_16_full_TP.xml 3. ENTSOE_16_full_SV.xml 4. 5.	2. El	NTSO-E_16 NTSO-E_16	6_EQ_EU_16J17h 6_TP_EU_16J17h 6_SV_EU_16J17h	.xml
Comments/Results/Issues: This test aims in the import of full ENTSOE 16 node model meaning that ENTSOE_16_full_EQ.xml is the concatenated Equipment file (ENTSOE_16_BE_EQ.xml, ENTSOE_16_EU_EQ.xml & ENTSOE_16_NL_EQ.xml), ENTSOE_16_full_TP.xml is the concatenated Topology file (ENTSOE_16_BE_TP.xml, ENTSOE_16_EU_TP.xml & ENTSOE_16_NL_TP.xml) and State Variable file is the concatenated SV file (ENTSOE_16_BE_SV.xml & ENTSOE_16_NL_SV.xml) and then export the Equipment, Topology & State Variables file back to the CIM format. We exported successfully three files (ENTSO-E_16_EQ_EU_16J17h.xml, ENTSO- E_16_TP_EU_16J17h.xml and ENTSO-E_16_SV_EU_16J17h.xml). We performed files validation using CIMTool. It showed some minor errors (date format, undefined association of ACLineSegment.BaseVoltage, which is already the known CIM issue). There were more significant errors in Topology and State Variables file (see the file with the screenshots).				
Supplementary files: validationExport_full_16node_ENTSOE_model.docx – screenshots of full ENTSOE 16 node model (ENTSO-E_16_EQ_EU_16J17h.xml, ENTSO-E_16_TP_EU_16J17h.xml and ENTSO-E_16_SV_EU_16J17h.xml)				
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