Use Case – Create EMS Test Model COPS.P01 ModelManageData_UC_CreateEMSTestModel_V0.3

Name: Create the EMS Test Model

Summary:

Create an EMS Test Model for the AREVA test system using the NMMS software and the selected NOMCRs and SAMRs from the Approved and Scheduled list. The output is a CIM/XML file that is generated per the RDF specification plus the ERCOT CIM extensions. The Contingency File, Dynamic Ratings File, SPS, and RAP supporting information files should also be packaged and sent with this model

Acronyms:

ERCOT Electric Reliability Council of Texas

MC ERCOT Model Coordinator EMS Energy Management System

MP Market Participant

NMMS Network Model Management System

NOMCR Network Operations Model Change Request (AKA: Project Files)

MT ERCOT Model Tester (NMMS)
SAMR Special Action Model Request
TSP Transmission Service Provider

Actor(s):

Name	Role description
MC at ERCOT	Selects from the list of Scheduled NOMCR's and SAMRs to
	be included in the current EMS Test Model and creates the
	EMS Model for specific day(s). Attaches the companion files
	as required. These files include the Contingency, SPS, RAP
	and other supporting files.

Participating Systems:

System	Services or information provided
Energy Management System	Receives the Model after the Case Builder completes the EMS
(EMS)	Test Model build
NMMS at ERCOT	The MC uses the Case Builder within the NMMS to build the
	EMS Test Model using the selected NOMCRs and SAMRs.
	SPS definitions, RAP definitions, and the Contingency filet
	are also pulled and sent to the EMS Test system.
	The EMS Test Model is generated based on the CIM RDF format and delivered in a CIM/XML file. The EMS Test
	Model build contains ERCOT extensions to the CIM schema,
	which are included within the generated Model file.

Pre-conditions:				
			N	IONE

Design Considerations:

None

Known assumptions, limitations, constraints, or variations that may affect this use case:

- One or more of these models may be generated daily by one or more testers.
- The models may include all or some of the approved and scheduled NOMCRs and SAMRs
- The models may also include unapproved or unscheduled NOMCRs and SAMRs

Normal Sequence:

Use	Description	From - To	Information
Case			Content
Step			
Step 1	Based on inputs from the MC, the NMMS software	(from)	
	inserts the selection of NOMCRs and SAMRs into	NMMS to	
	the Network Operations Model	(to) NMMS	
Step 2	NMMS software creates the CIM model file with ERCOT CIM extensions and sends the CIM/XML RDF file to the EMS.	(from) NMMS to (to) MMS	The model is in the CIM RDF format and contains ERCOT CIM
			extensions. They are delivered in CIM XML RDF. The package should also contain
			the supporting files such as Contingency files and SPS and RAP information files.

Exceptions / Alternate Sequences:

NONE

Post-conditions:

NONE

References:

Use Cases referenced by this use case, or other documentation that clarifies the requirements or activities described.

COPS.P01.ModelManageData_UC_ProcessContingencyDefinition

The following Standards and other documents are referenced by this case:

- IEC 61970-552-4, CIM/XML Model Exchange Format Rev6 20050505 Standard (Incremental Change Specification)
- IEC 61970-501, CIM RDF Schema
- ERCOT Nodal Protocols
- ERCOT NMMS Requirements

Issues:

ID	Description	Status
1.	Description of the ERCOT CIM extensions to be included in the	In Work
	CIM XML output	

Revision History:

No	Date	Author	Description
0		J. Winkel	Initial Version
1	9/10/06	M. Goodrich	Added comments from Crews and Moseley
2	9/12/06	M. Goodrich	Added edits from NMG