

WG13 Issues - CIM Issues #6461

302,457 issue PowerFlowSettings missing 3 attributes

07/02/2023 09:45 AM - Chavdar Ivanov

Status:	Closed	
Priority:	Normal	
Target version:		
Author/Contact Info:	Chavdar Ivanov	Standard(s):
Base Release:	18v03	Version:
Solution to be Applied To:	18v05	Clause:
Solution Version:	CIM18v05	Sub-Clause:
Solution Applied By:	Chavdar Ivanov	Paragraph:
Completion Date:	07/02/2023	Table:
CIM Keywords:	61970-Dynamics	Originally Closed in Version:
Breaking Change:	No	Origination Date: 05/17/2023
Breaking Change Description:		Origination ID:
CIM Impacted Groups:	WG13	Originally Assigned To:
Requestor:		
Description PowerFlowSettings class is missing 3 important attributes to complete the basic settings for the power flow - maxIterationsInnerLoop - maxIterationsOuterLoop - loadResponseCharacteristicsEnabled These were discussed but got forgotten in last iterations		
Proposed Solution Add the following attributes and profile them in 457 as required attributes - maxIterationsInnerLoop, integer, Description: Maximum iterations of inner loop of the power flow calculation algorithm. - maxIterationsOuterLoop, integer, Description: Maximum iterations of outer loop of the power flow calculation algorithm. This can refer to the maximum number of iterations when area interchange control is used. - loadResponseCharacteristicsEnabled, boolean, Description: True means load response characteristics are considered, if present in the model. False, means that even if enabled, the load response characteristics are not taken into account by the power flow calculation algorithm.		
Decision Add as proposed. It was a miss by the project work. The gap was identified recently		
Release Notes The following attributes are added to 302 and 457 as required attributes in simulation settings profile - maxIterationsInnerLoop, integer, Description: Maximum iterations of the power flow calculation algorithm inner loop. - maxIterationsOuterLoop, integer, Description: Maximum iterations of the power flow calculation algorithm outer loop. This can refer to the maximum number of iterations when area interchange control is performed as part of an outer loop or when specific control actions are done in the outer loop. - loadResponseCharacteristicsEnabled, boolean, Description: True means load response characteristics are considered, if present in the model. False, means that even if enabled, the load response characteristics are not taken into account by the power flow calculation algorithm.		

History

#1 - 07/02/2023 09:49 AM - Chavdar Ivanov

- Description updated
- Decision updated

#2 - 07/02/2023 09:49 AM - Chavdar Ivanov

- *Status changed from New to Open*

#3 - 07/02/2023 09:49 AM - Chavdar Ivanov

- *Status changed from Open to Review*

#4 - 07/02/2023 09:49 AM - Chavdar Ivanov

- *Status changed from Review to Closed*

#5 - 07/02/2023 09:58 AM - Chavdar Ivanov

- *Release Notes updated*

#6 - 07/05/2023 10:01 AM - Chavdar Ivanov

- *Solution Version changed from 18v05 to CIM18v05*