

## WG13 Issues - CIM Issues #4049

### SynchronousMachine attributes r and x are outdated Synchron

09/14/2021 03:43 PM - Herbert Falk

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Target version:</b>	
<b>Author/Contact Info:</b> ENTSO-E 2012 IOP	<b>Standard(s):</b>
<b>Base Release:</b> 61970cim16v10	<b>Version:</b>
<b>Solution to be Applied To:</b> 61970cim16v12	<b>Clause:</b>
<b>Solution Version:</b> CIM16	<b>Sub-Clause:</b>
<b>Solution Applied By:</b> KLH	<b>Paragraph:</b>
<b>Completion Date:</b> 09/26/2012	<b>Table:</b>
<b>CIM Keywords:</b>	<b>Originally Closed in Version:</b> CIM16
<b>Breaking Change:</b> No	<b>Origination Date:</b> 07/22/2012
<b>Breaking Change Description:</b>	<b>Origination ID:</b> 13_111
<b>CIM Impacted Groups:</b> WG13	<b>Originally Assigned To:</b>
<b>Requestor:</b>	
<b>Description</b> SynchronousMachine attributes r and x are outdated SynchronousMachine.r and SynchronousMachine.x are present in the UML and in the profiles, but these attributes are not needed anymore. The reason is that additional attributes were added to complete the model of SynchronousMachine in respoect to short circuit and dynamics data exchanges. (From Christoph Schmid) Synchronousmachine.r has been replaced by Synchronousmachine.equivalentResistance for the SHC calculation. For Dynamics Synchronousmachine.r has been replaced by RotatingMachine.statorResistance. (Chavdar please check in the ENTSO-E profile as I could not find this attribute in the html as attribute. It is only mentioned in the text). The attribute Synchronousmachine.x was required for Dynamics only and has been replaced by SynchronousMachineTimeConstantReactance.xDirectSync and SynchronousMachineTimeConstantReactance.xQuadSync	
<b>Proposed Solution</b> Remove attributes SynchronousMachine.r and x from 452 or from CIM UML.	
<b>Decision</b> (2012-08-22) Decided to check with Chavdar and remove attributes from CIM UML if not used by ENTSO-E.  (2012-09-05) WG 13 - Agreed to keep SynchronousMachine.r and to update the description with the text from SynchronousMachine.equivalentResistance, which will be removed. SynchronousMachine.x will also be removed.	