ARCTEQ®
RELAYABLE POWER

Model Implementation Conformance Statement (MICS) for the IEC 61850 Edition 2 server interface in AQ-S391 product

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1 Introduction

This model implementation conformance statement is applicable for **AQ-300 series** with firmware version **2.10.**

This MICS document specifies the modelling extensions compared to IEC 61850 Edition 2. For the exact details on the standardized model please compare the ICD substation configuration file: “AQ-S391.icd”, version 1.0.

The following chapters describe the list of implemented logical nodes and the new and extended logical nodes (if any).

1.1 Logical nodes list

The following table contains the list of logical nodes implemented in the device:

L: System Logical Nodes
LPHD (Physical device information)
LLN0 (Logical node zero)
LTRK (Service tracking)
P: Logical Nodes for protection functions
R: Logical nodes for protection related functions
G: Logical Nodes for generic references
GGIO (Generic process I/O)
M: Logical Nodes for metering and measurement
MMTR (Metering)
MMXU (Measurement)
MMXN (Non-phase related meas.)
X: Logical Nodes for switchgear
XCBR (Circuit breaker)
XSWI (Switch)
C: Logical Nodes for control
CSWI (Switch controller)
CILO (Interlocking)

Logical Node Extensions
The following table use

- M: Data object is mandatory in the IEC 61850-7-4 ED.2.
- O: Data object is optional in the IEC 61850-7-4 ED.2 and is used in the device.
- E: Data object is an extension to the IEC 61850-7-4 ED.2.

1.2 New logical nodes

Newly created logical nodes are listed in this clause, with lnNs attribute in the Name plate.
There is no new logical node in the configuration.

1.3 Extended logical nodes

The following logical nodes have been extended with extra data. All extra data has been highlighted in the tables and marked as “E” (Extended).

MMTR class				
Data object name	Common data class	Explanation	M/O/E	Remarks
MMTR		Metering		Type: EUPP2_E_MMTR
Data objects				
Common Logical Node Information				
Beh	INS	Behaviour	M	
Status Information				
DmdVArhPV	MV	Demand value - reactive	E	
DmdWhPV	MV	Demand value - active	E	
SupVArhPV	MV	Supply value - reactive	E	
SupWhPV	MV	Supply value - active	E	