

MODEL IMPLEMENTATION CONFORMANCE STATEMENT  
FOR THE IEC 61850 INTERFACE IN SEL-487B

August 26, 2013

UCA INTERNATIONAL USERS GROUP  
TESTING SUB COMMITTEE

TEMPLATE VERSION 0.1  
DATE: APRIL 24, 2008

# INDEX

<b>INDEX</b>	<b>1</b>
<b>1 Introduction</b>	<b>2</b>
<b>2 Logical Node List</b>	<b>3</b>
<b>3 Logical Node Extensions</b>	<b>4</b>
3.1 Extended Logical Nodes . . . . .	4
3.1.1 GGIO: Generic Process I/O . . . . .	4

# **1. Introduction**

**This model implementation conformance statement is applicable for SEL-487B firmware R307:**

**This MICS document specifies the modelling extensions compared to IEC 61850 edition 1. For the exact details on the standardized model please compare the ICD substation configuration file: “SEL\_487B.CID”, version 005.**

**Clause 2 contains the list of implemented logical nodes.**

**Clause 3 describes the new and extended logical nodes.**

**Clause 4 describes the new and extended common data classes.**

**Clause 5 describes enum type extensions.**

## 2. Logical Node List

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

C: Supervisory Control
CSWI: Switch Controller
G: Generic Function References
GGIO: Generic Process I/O
L: System Logical Nodes
LLN0: Logical Node Zero
LPHD: Physical Device Information
M: Metering and Measurement
MMXN: Non Phase Related Measurement
P: Protection Functions
PDIF: Differential
PTRC: Protection Trip Conditioning
R: Protection Related Functions
RDRE: Disturbance Recorder Function
X: Switchgear
XCBR: Circuit Breaker
XSWI: Circuit Switch

## 3. Logical Node Extensions

The following tables use:

- M: Mandatory
- O: Optional
- E: Extension

### 3.1 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), these data contain the dataNs attribute.

#### 3.1.1 GGIO: Generic Process I/O

For a description of this LN, see IEC 61850-5. This node shall be used to model in a generic way device processes that are not predefined by the groups S, T, X, Y, or Z.

GGIO Class				
Attribute Name	Attribute Type	Explanation	M/O/E	Remarks
LNNName		Shall be inherited from Logical Node Class.		
Data				
Mod	INC	Mode	M	
Beh	INS	Behavior	M	
Health	INS	Health	M	
NamPlt	LPL	Name Plate	M	
AnIn	MV	Analogue input	O	

SPCSO	SPC	Single point control- lable status output	O	
Ind	SPS	General indication (binary input)	O	
Ra	MV	Remote Analog	E	
Rao	MV		E	