



GE VERNOVA

MiCOM P40 Agile

Px4x, P40 Agile

SICS
SCL Implementation Conformance Statement

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1 SCL IMPLEMENTATION CONFORMANCE STATEMENT (SICS)

1.1 INTRODUCTION

The following tables G.1 and G.2 contain mandatory and optional features of System Configuration tools and IED configuration tools. It is up to the tool manufacturer to decide to which extent his tool fulfills one or both roles. At least for one main role all mandatory features shall be supported.

The IED configurator features can also partly be implemented within the IED itself, if it can be configured by an SCD or CID file. In this case the conformance statement refers to the combination of IED and IED configurator tool. If an IED tool supports several IED types with different engineering capabilities, then for each combination of tool and IED type a separate IED configurator conformance statement should be given.

The features are grouped. If a group is mandatory, then at least all mandatory features of this group shall be implemented. If a group is optional, then either all features of this group shall be missing, or at least all mandatory ones shall be implemented.

The result of an export function can be checked in the generated SCL file. The result of an import can be checked by tool behaviour, and at the final configured IED, by browsing through it or by its communication behaviour.

1.2 IED CONFIGURATOR CONFORMANCE STATEMENT

		Mandatory/ Optional	Value/ Comments
ICD export		M	
I11	Fix ICD file (no adaptable export needed)	GC_1 (1)	Yes
I12	Export of ICD file or IID file according to IED preconfiguration performed by tool	GC_1 (1)	Yes
I13	State the data model name space (61850-7-3 subclause 7.2) within ICD file (LLN0.NamPit.IdNs value)	M	IEC61850-7-4:2007A
I14	State the data model version (61850-7-3 subclause 7.8.3) and any predefined / fixed configuration values within ICD file	M	N/A
I15	Version 2003 export	GC_1 (2)	Yes
I16	Version ____ export	GC_1 (2)	2007B
I17	Predefined data sets	O	
I18	Predefined control blocks	O	Yes
I19	Substation bay template with IED part	O	
I110	Communication section with default address	O	
I111	Export correct valKind value	O	RO, Conf
I112	Exports internal addresses as InRef or Input section	O	
I113	Exports internal addresses in Input section with expected serviceType	O	
I114	Exports in UTF-8 coding	M	Yes
SCD import		M	
I21	Identify IED to be configured in SCD file by IED name	M	Yes
I22	Configure LD name (at least via IdInst, dependent on the IED capabilities) and IED addresses from SCD	M	Yes
I23	Determine communication side addresses of IED inputs from SCD	C1	Yes
I24	Determine and use clock communication addresses from SCD	C1	Yes
I25	Configure values of (existing) control block from SCD	C3	Yes
I26	Prepare (new) control block instances according to SCD file	C3	
I27	Prepare / configure data sets according to SCD file	C3	Yes
I28	Modify predefined data sets according to SCD	C3	Yes

		Mandatory/ Optional	Value/ Comments
I29	Interpret client references in the control blocks of other IEDs to find the control block instances allocated to this IED, and data sent to this IED.	C1	Yes
I210	Set IED configuration values and parameter values as defined in SCD file	O	Yes
I211	Support changed (reduced capability) valKind (e.g. from Set to RO or to Conf) Error! Reference source not found.	O	
I212	Support IdName on other IEDs	C3	Yes
I213	Interpret input signal references to source control blocks	O	
I214	Imports UTF-8 coding of XML	M	Yes
IID export after IED engineering		O	
I31	IED version and instance information: LPHD.PhyNam: hwRev, swRev, serNum, LLN0.NamPit.configRev	O	Yes
I32	Configuration values (fc=CF)	O	Yes
I33	Setting Parameter values (fc=SP, SG)	O	Yes
I34	SCL Header management	C2	Yes
I35	Modify IED data model (add LN/Data object/LD, or remove unused LD/LN/Data object)	O	Yes
Tool functionality		M	
I41	Support MustUnderstand concept	M	Yes
I42	Bind incoming 61850 signals to IED internal (input) signals	C1	Yes
I43	Use or create IED Input section for binding incoming (external) signals to internal signals, to document this binding	O	Yes
I44	Create CID file for IED	O	Yes
I45	Support IdName for LD name specification	C3	Yes
I46	Modify LN prefixes or InInst	O	Yes
<p>C1 Mandatory, if the IED can receive data from other IEDs, i.e. be either client or subscriber.</p> <p>C2 Mandatory, if any of the other features in this table section is supported.</p> <p>C3 Mandatory, if the appropriate IED capability is claimed in PIXIT or IED capability section.</p> <p>GC_1 (n) At least one of the elements of group n shall be available.</p> <p>O Optional; should match the IED capabilities, i.e. if an IED claims that RCBs can be configured by SCL, then the IED tool shall support it.</p> <p>M Mandatory.</p>			



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