

Model Implementation Conformance Statement (MICS)  
for the IEC 61850 Client interface in EKRASCADA

UCA International Users Group

Testing Sub Committee

Date: September 7, 2020

## Introduction

This document specifies the model implementation conformance statement (MICS) of the IEC 61850 interface in the client system: EKRASCADA with product version 2.7.1.11801 and IEC 61850 client interface version 1.3, further referred to as “client”.

Note: When a CDC is supported it is assumed that all mandatory and optional attributes are supported. All exceptions should be mentioned in the comment column.

### Common data class specifications for status information

CDC	Ed	Description	Supported	Comment
SPS	1,2	Single point status	Y	
DPS	1,2	Double point status	Y	
INS	1,2	Integer status	Y	
ENS	1,2	Enumerated status	Y	
ACT	1,2	Protection activation information	Y	
ACD	1,2	Directional protection activation information	Y	
SEC	1,2	Security violation counting	Y	
BCR	1,2	Binary counter reading	Y	
HST	1,2	Histogram	Y	
VSS	1,2	Visible string status	Y	
Notes:				

### Common data class specifications for measurement information

CDC	Ed	Description	Supported	Comment
MV	1,2	Measured value	Y	
CMV	1,2	Complex measured value	Y	
SAV	1,2	Sampled value	Y	
WYE	1,2	Phase to ground/neutral related measured values of a three-phase system	Y	
DEL	1,2	Phase to phase related measured values of a three-phase system	Y	
SEQ	1,2	Sequence	Y	
HMV	1	Harmonic value	Y	
HMV	2	Harmonic value	Y	
HWYE	1	Harmonic value for WYE	Y	
HWYE	2	Harmonic value for WYE	Y	
HDEL	1	Harmonic value for DEL	Y	
HDEL	2	Harmonic value for DEL	Y	
Notes:				

Note: It is assumed that when a CDC is supported, all supported control models as specified in the PIXIT are supported.

Please specify exceptions in the comments column.

Common data class specifications for controls

<b>CDC</b>	<b>Ed</b>	<b>Description</b>	<b>Supported</b>	<b>Comment</b>
SPC	1,2	Controllable single point	Y	
DPC	1,2	Controllable double point	Y	
INC	1,2	Controllable integer status	Y	
ENC	1,2	Controllable enumerated status	Y	
BSC	1,2	Binary controlled step position information	Y	
ISC	1,2	Integer controlled step position information	Y	
APC	1	Controllable analogue process value	Y	
APC	2	Controllable analogue process value	Y	
BAC	1,2	Binary controlled analog process value	Y	
Notes:				

Common data class specifications for status settings

<b>CDC</b>	<b>Ed</b>	<b>Description</b>	<b>Supported</b>	<b>Comment</b>
SPG	1,2	Single point setting	Y	
ING	1,2	Integer status setting	Y	
ENG	1,2	Enumerated status setting	Y	
ORG	1,2	Object reference setting	Y	
TSG	1,2	Time setting group	Y	
CUG	2	Currency setting group	Y	
VSG	2	Visible string setting	Y	
Notes:				

Common data class specifications for analogue settings

<b>CDC</b>	<b>Ed</b>	<b>Description</b>	<b>Supported</b>	<b>Comment</b>
ASG	1,2	Analogue setting	Y	
CURVE	1,2	Setting curve	Y	
CSG	1,2	Curve shape setting	Y	
Notes:				

Common data class specifications for description information

<b>CDC</b>	<b>Ed</b>	<b>Description</b>	<b>Supported</b>	<b>Comment</b>
DPL	1,2	Device name plate	Y	
LPL	1,2	Logical node name plate	Y	
CSD	1,2	Curve shape description	Y	
Notes:				

Common data class specifications for tracking

<b>CDC</b>	<b>Ed</b>	<b>Description</b>	<b>Supported</b>	<b>Comment</b>
------------	-----------	--------------------	------------------	----------------

CST	2	Common service tracking	Y	
BTS	2	Buffered report tracking service	Y	
CTS	2	Control tracking service	Y	
GTS	2	GOOSE Control block tracking service	Y	
LTS	2	Log control block tracking service	Y	
MTS	2	MSVCB tracking service	Y	
NTS	2	USVCB control block tracking service	Y	
OTS	2	Log tracking service	Y	
STS	2	SGCB tracking service	Y	
UTS	2	Unbuffered report tracking service	Y	
Notes:				

### Supported

Y = Client can issue an ASCII service on this CDC and process the data from/to the CDC

N = Client can't issue an ASCII service on this CDC and doesn't process the data from/to the CDC