

Protocol Implementation Conformance Statement Template

for NI-Industrial Communications for IEC 61850

Based on IEC 61850-9-2

Conformance

1 Notation

For the following clause, see the abbreviations given in IEC 61850-9-2 Clause 4.

2 PICS

2.1 Profile conformance

Table 1 and Table 2 define the basic conformance statement.

Table 1 – PICS for A-Profile support

A-Profile shortcut	Profile Description	Client		Server		Value/comment
		F/S		F/S		
A1	Client/server A-Profile	c1	√	c1	√	Refer to IEC 61850-9-2 5.2
A2	SV A-Profile	c2	√	c2	√	Refer to IEC 61850-9-2 5.3
c1 Shall be 'm' if support for any service specified in 61850-9-2 Table 1 are declared within the ACSI basic conformance statement. c2 Shall be 'm' if support for any service specified in 61850-9-2 Table 4 are declared within the ACSI basic conformance statement.						

Table 2 – PICS for T-Profile support

T-Profile	Profile Description	Client		Server		Value/Comment
		F/S		F/S		
T1	TCP/IP T-Profile	c1	√	c1	√	
T2	SV T-Profile	c2	√	c2	√	
c1 Shall be 'm' if support for A1 is declared. Otherwise, shall be 'i' c2 Shall be 'm' if support for A2 is declared. Otherwise, shall be 'i'.						

2.2 SV Services

This clause describes the Protocol Implementation Conformance Statement for sampled values services based on the IEC 61850-7-2 basic conformance statement. See Table 3.

Table 3 – SV conformance statement

Services	Client/subscriber	Server/publisher	Value/comment
Multicast			
SendMSVMessage	c1	c1	√

GetMSVCBValues	c2	c2	√
SetMSVCBValues	c3	c3	√
Unicast			
SendUSVMessage	c1	c1	
GetUSVCBValues	c2	c2	
SetUSVCBValues	c3	c3	
c1 Shall declare 'm' for at least one (MSV or USV) as declared within ACSI basic conformance statement. c2 Shall be 'o' as declared within ACSI basic conformance statement. See IEC 61850-8-1, Table 95 Read Conformance Statement. c3 Shall be 'o' as declared within ACSI basic conformance statement. See IEC 61850-8-1, Table 96 Write Conformance Statement.			