

No. 10148703-INC 20-2443

**Issued to:**

NovaTech LLC  
13555 W 107th St  
Lenexa KS 66215  
USA

**For the client system:**

OrionLX+  
Automation Platform  
Software version: 9.4.8  
Serial number: 121003

The client system has not been shown to be non-conforming to:

## IEC 61850 Edition 2 Parts 6, 7-1, 7-2, 7-3, 7-4 and 8-1

Communication networks and systems in substations

The conformance test has been performed according to IEC 61850-10 Edition 2, the UCA International Users Group Edition 2 Client Conformance Test Procedures version 1.1.2 with product's protocol, model and technical issue implementation conformance statements: "Protocol Implementation Conformance Statement for the IEC 61850 Client interface in NovaTech Orion, version 9.4.8 Date: July 22, 2020", "Model Implementation Conformance Statement for the IEC 61850 Client interface in NovaTech Orion Version 9.4.8 Date: July 10, 2020" and "TISSUES Implementation Conformance Statement (TICS) For the IEC 61850 Edition 2 Client and Server interface in NovaTech Orion Version 9.4.8 Date 13-July-2020" and product's extra information for testing: "Protocol Implementation eXtra Information for Testing (PIXIT) for the IEC 61850 Client interface in NovaTech Orion Version 9.4.8 Date: July 27, 2020".


The following IEC 61850 conformance blocks have been tested with a positive result (number of relevant and executed test cases / total number of test cases):

1 Basic Exchange (16/24)	12a Direct Control (7/9)
2 Data Sets (6/10)	12b SBO Control (8/11)
5 Unbuffered Reporting (19/24)	12c Enhanced Direct Control (7/9)
6 Buffered Reporting (23/28)	12d Enhanced SBO Control (8/11)
	13 Time Synchronization (3/4)

This certificate includes a summary of the test results as carried out at DNV GL in the Netherlands with UniCA 61850 IED Simulator version 6.1.31 and UniCA 61850 Analyzer version 5.34.01. This document has been issued for information purposes only, and the archived DNV GL report No. 10148703-INC 20-2442.Rev3 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to DNV GL by NovaTech. The manufacturer's production process has not been assessed. This certificate does not imply that DNV GL has approved any product other than the specimen tested.

Arnhem, July 29, 2020



**N. Heijker**  
Business Leader  
Interoperability of smart power systems

**Issued by:**



**DNV-GL**  
DNV KEMA is now DNV GL



**R. Schimmel**  
Verification Manager

<sup>1</sup> Level A - Independent test lab with certified ISO 9001 Quality System



Applicable Test Procedures from the UCA International Users Group Edition 2 Client Conformance Test Procedures version 1.1.2

<b>Conformance Block</b>	<b>Mandatory</b>	<b>Conditional</b>
1: Basic Exchange	cAss1, cAss2, cAss3, cAssN1, cAssN4, cAssN5, cAssN6	cAssN7 cSrv1, cSrv5, cSrv6, cSrv7, cSrv10, cSrvN3, cSrvN4, cSrvN5
2: Data Sets		cDs1, cDs2, cDs5, cDs6, cDsN1a, cDsN1b
5: Unbuffered Reporting	cRp3, cRp4, cRp5, cRp8, cRp9, cRp10, cRp11, cRp13a, cRp14, cRp15, cRp19, cRpN2, cRpN5, cRpN6	cRp2, cRp6, cRp7, cRp16, cRp18
6: Buffered Reporting	cBr3, cBr4, cBr5, cBr8, cBr9, cBr10, cBr11, cBr13a, cBr14, cBr15, cBr19, cBr30, cBr31, cBrN2, cBrN5, cBrN6	cBr2, cBr6, cBr7, cBr16, cBr18, cBr32, cBr33
12a: Direct Control	cCtl4, cCtl5, cDOns1, cDOns2	cCtl1, cCtl2, cCtl3
12b: SBO Control	cCtl4, cCtl5, cSBOns1, cSBOns2, cSBOns3	cCtl1, cCtl2, cCtl3
12c: Enhanced Direct Control	cCtl4, cCtl5, cDOes1, cDOes2	cCtl1, cCtl2, cCtl3
12d: Enhanced SBO Control	cCtl4, cCtl5, cSBOes1, cSBOes2, cSBOes3	cCtl1, cCtl2, cCtl3
13: Time sync	cTm1, cTmN1	cTm2