

# Certificate of Conformance



This certificate confirms that the product described below has not shown to be non-conformant with the requirements as outlined by the DNP3 standard IEEE 1815-2012 and the Technical Bulletins listed on the back of this certificate during performed conformance test. The conformance test was performed according to the DNP Intelligent Electronic Device (IED) Certification Procedure, with the version described below, and on the product and interface(s) described below.

The test has been scoped based on the following document: SEL-411L DNP3 XML File Version 2 2017-03-08.

The notes/comments applying to the test results can be found on the back of this certificate.

**Test procedures version:** 2.6  
**Manufacturer:** SEL Inc  
**Type of product:** Outstation  
**Device model/product name:** SEL-411L-0  
**Ordering code:**  
**OS Name and Version:**  
**Firmware/Software Version:** SEL-411L-X506-V0-Z013003-D20170510  
**Hardware Version:**  
**Other Version Information:**  
**Device configuration tool:**  
**DNP3 Subset level(s) tested:** 2  
**Interfaces tested:** serial  
**Tests were performed by:** SEL  
**Certificate Date:** 2020-03-08

## Test entity

X *Karen Leggett*

Person responsible for testing

## DNP Users Group

X *[Signature]*

Chair of the DNP Test Management Committee

By signing this document, the Test entity confirms that:

- All test results presented for review to the DNP Users Group are test results from a test of the device/system described on this certificate, with its respective (software and hardware) versions.
- All information on this certificate is accurate and results of the test including evidence of related information as mentioned above is stored and can be presented to the DNP Users Group upon request for a duration of at least 20 years.

By signing this document, the DNP Users Group confirms that:

- Test results presented by the tester were reviewed and no issues were found during the review.

## Notes applying to the test results:

### Technical Bulletins applying to the tested implementation:

TB2013-002 Clarification of Special Use Addresses  
TB2013-003 Updated Transport Reception State Table  
TB2013-004a Additional Nameplate Attributes  
TB2014-001 1815-2012 Errata  
TB2014-002 Additional Control Related Status Codes  
TB2015-001b Object Groups 110-115  
TB2015-002a Clarification of Unsolicited Response Behavior  
TB2016-001 Update of IIN's 2\_0, 2\_1 and 2\_2  
TB2016-002 Addressing Deficiencies in DNP3-Sav5  
TB2016-003b Updated Subset Parsing Tables  
TB2016-004 Updated Unsolicited Reporting Requirements  
TB2016-005 Indicating Invalid FP Data in Object Group 0 Variations  
TB2017-001 Certification Procedures Corrections  
TB2017-002 Erratum of the Asymmetric Updated Key Changed Method  
TB2017-003a Updated Event Reporting Requirements  
TB2017-004 Erratum of ASN.1 schema in A.45.8.2.2  
TB2017-005 Clarification of database synchronization and integrity polling  
TB2017-006 Erratum to figures 11-3 11-4 11-5 and 11-6  
TB2017-007a Consolidation and revision of object data type code tables and permitted data type codes for use in g0  
TB2018-001 Time management, common time of occurrence  
TB2018-002 Clarification of the operation of the link layer behavior regarding synchronization  
TB2018-003 Clarification of the Handling of Leap Seconds in DNP3TIME  
TB2018-004 Clarification of Analog Input Processing Rules  
TB2018-005 Clarification of certain event reporting requirements  
TB2019-001 Authentication of individual users in Secure Authentication