

ABB Ability™ Verification for measurement devices

Frequently asked questions



One software package to verify multiple devices, reducing costs and making maintenance easy.

About

Q: To which product version is this FAQ related to?

A: This FAQ is related to SRV500 in general.

Q: What are the features if the Verification tool?

A: Please refer the product datasheet

Q: How long does it take to verify a device?

- Standard solution requires approx. 90 seconds, depending on the device series.
- Enhanced solution requires between 3 to 10 minutes depending on the device series.
- Premium solution requires between 35 and 45 minutes depending on accuracy and device series.

Q: What are the customer benefits?

A: The on-premise and in-situ verification reduces downtime and makes measurement easy. Saving customers costs and ensuring high quality measurements for every industry.

Q: Is the verification tool only for ABB personnel or it is also available to customers?

A: This solution is available to customers and ABB personnel. The Basic version is free to try before investing in other licenses.

Q: Does this tool enable remote verification of installed devices?

A: This is an on-premise verification tool and does not offer remote verification.

Verification tool

Q: What is a verification tool?

A: ABB Ability™ Verification for measurement devices is an on-site condition monitoring solution used to check the health of your measurement devices.

Q: What are the different license options available?

A: ABB Ability™ Verification for measurement devices offers three types of licenses. Starting with Basic & Standard which is a software based solution, and the Enhanced license is a software solution that includes an edge device.

Q: How does it work?

A: Depending on the type of license, the product either uses the intelligence of the product or it relies on the hardware to complete the verification.

Q: Is the free version only available to ABB personnel?

A: The basic version is available to customers and ABB personnel free of charge.

Q: How is the tool pre-configured?

A: Please refer to the Operating Instructions

Q: What are the hardware accessories required for the verification tool?

A: Refer to the parts list for the specific license version

Q: What are the features of the verification tool?

A: Refer to the solution Datasheet

Q: How much does the license cost?

A: Please discuss the cost of this solution with your local sales team. For general information about the business model please refer to the sales presentation.

Q: What is the ABB scope of supply for the verification solution order?

A: In case of the software version the customer would get the license to perform verification along with the installer. For the Hardware version the customer would receive the hardware box along with the cables required for connecting the product.

Q: Does the verification report comply with ISO Audit standards?

A: Yes.

Q: Are there templates available for the verification report?

A: Yes:

- Standard
- Enhanced
- Premium (only available through service)

Q: Is there a special tool required from the plant for the verification tool?

A: The customer would only need to have the communication adapter depending upon the communication protocol of the product.

Q: Any training required to use the verification tool?

A: The software is intuitive and easy to use, but referring to the operating instruction is a good place to get started.

Verification license

Q: What type of licenses are available?

A: We offer three options:

- Free software testing: This is a free version with basic verification
- Licensed software testing: This is a licensed version with verification via software
- Traceable transmitter input/output tests performed with hardware
- Traceable electromagnetic flowmeter testing: this is a licensed version with detailed measurements and simulation of verification parameters of Electromagnetic Flowmeters.

Q: Can a user perform verification without a license?

A: Yes, a user can perform basic verification (Free software testing), but a report will not be generated. The test result will only indicate Pass/Fail with no detailed test results.

How does it work?

Q: Depending on the type of license, the product either uses the intelligence of the product or it relies on the hardware to complete the verification.

A:

Q: What test equipment is required for licensed software testing?

A: Any meter that can measure Voltage (V), Current (mA) and Frequency (Hz).

Q: What are the licensing options?

A: A user can purchase licensed which are count based (10, 50 or 100 counts).

Q: Is it possible to transfer the license from one laptop to another?

A: Yes. Refer to the Operating Instructions for more details.

Q: To whom should the C2V file be emailed to to generate licenses?
















A: C2V file can be sent to Bump.Services@in.abb.com for license generation.

Q: What is the default Username & Password?

A: Username: Admin
Password: 123

Q: Can I change an existing valid/unexpired license?

A: Yes, existing valid/unexpired license can be changed, please contact Bump.services@in.abb.com for further details.

			
Standard			
Enhanced			
Premium			   

Installation

- Q: Which Windows operating systems does the software support?**
- A:** Verification software works on Windows 7, 8, 8.1, 10. Both 32 & 64 bit are supported. It can be installed on Windows Desktops, Laptops and Tablets.
- Q: Can a user execute verification tests after the software has been installed?**
- A:** Before verification can commence, the user is required to import device specific VDFs (Verification Definition Files).
- Q: How do I uninstall the software**
- A:** User can uninstall the software from “Control Panel>Programs and Features>ABB Ability™ Verification for measurement devices” and click on Uninstall - While uninstalling it would ask “Do you want to delete the database?” Yes/No User can select “Yes” if all the past tests are to be deleted, if not “No”.
- Q: What should I do when I receive an error message “USB not recognized” on a Lenovo laptop?**
- A:** Download the newest Intel USB driver and install it. Afterwards connect SRV500 Premium again and install the MSP430 driver.
- Q: Who can provide general support?**
- A:** The product manager can provide general support. Email: BUMP.Services@in.abb.com



Supported devices

- Q: Is it possible to use an existing plant server to conduct the verification?**
- A:** No it is not possible to conduct the verification without the software.
- Q: Does the SRV500 solution also offer calibration possibilities?**
- A:** No, this software is only to verify the health status of devices and is not able to calibrate any devices.
- Q: How many devices can be verified at a time?**
- A:** Only one device at a time.
- Q: What devices are supported under the basic/standard license?**

Basic/Standard/Enhanced
LMT100
LLT100
LWT300
TTX300
266PdP
Hybrid: FEP630/610/PM300/PM500 (Transmitter) + XE/XM (Sensor)
Hybrid: FEP630/610 (Transmitter) + PM300/PM500 (Sensor)
FSM4000
Hybrid: FEP630/610/PM300/PM500 (Transmitter) + XE/XM (Sensor)
Hybrid: FEP630/610 (Transmitter) + PM300/PM500 (Sensor)
EDP300
FMT2xx
SensyFlow HART FMT500
FSV450/FSS450
FSV430/FSS430
CoriolisMaster
Premium version
FEP 300/500 – ProcessMaster/ HygienicMaster
FEX 100 – WaterMaster
FET6XX – ProcessMaster/HygienicMaster
AquaMaster2, AquaMaster3, AquaMaster4, MagMaster
AquaMaster4 MobileComms (4G & NBIOT)
Hybrid: AquaMaster4 (Transmitter) + AquaMaster3 (Sensor)
Hybrid: ProcessMaster (Transmitter) + MagMaster (Sensor)
EMF Z Series (FEW010)

Software

Q: How can I maximize the scope of verification in the plant?

A: The software platform is continuously being improved and functionality is increased with each new release.

Q: What is the lifecycle of ABB Ability™ Verification for measurement devices?

A: As of 2024 this solution is in Active stage.

Q: Should I Unzip the VDF (Verification Definition File) and import it?

A: You can import the VDF directly without the need to Unzip the folder.

Q: Can the verification tool be used to check flowmeter issues for example Coil failure, damaged electrodes and configuration errors?

A: The tool provides data about all technical related diagnosis values. A verification is done by an algorithm checking limits of diagnostic values. To get access to more detailed troubleshooting services please contact your local service engineer.

Q: Does the verification tool require Finger Print Technology?

A: No, but using it increases accuracy.

Q: What are the input parameters for the verification tool?

A: All input parameters are part of the VDF file for the specific product.

Q: How long does it take to perform a verification test for a flowmeter?

A: It varies between 7-45 minutes depending on the product version.

Q: What format is the report generated in?

A: The verification tool generates a PDF file with the different measurements made along with the details of the product that was verified.

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