Mark* VIe Embedded Controller

Security Certification

fact sheet

GEA-S1272A

GE's Mark* VIe embedded controller for turbine, generator, and plant control systems has been tested and certified by the Achilles™ Communications Certification program. Compliance to this international standard for process automation, control, and safety systems provides an independent verification of controller security and robustness by a recognized authority.

Tests

Certification includes subjecting the embedded controller to the following two types of tests, which are performed for each basic protocol on the control I/O networks:

- Transmission of rogue and invalid protocol packets
- Denial-of-service attempts to overwhelm the device's resources

Completion of these tests verifies controller security against attacks with common network protocols.

Applications

- Mark VIe turbine and plant controls
- Mark VIeS Safety controller compliant to IEC-61508
- EX2100e generator excitation controls
- LS2100e static starter controls
- Renewable energy applications for Wind and Solar
- Compatible with ControlST* software suite version 04.04 ††

†† *For future software certification, contact an authorized GE Sales Representative.*

Reference

- GEI-100665, *Mark VIe Controllers UCCx and UCSx Instruction Guide*
- GEI-100700, *Mark VIeS Safety Controllers UCCS05 and UCSBS1A Instruction Guide*

Certifications

Item	Application
Device Names	Mark VIe, Mark VIeS
Device Models	UCSAH1A, UCSBH1A, UCSBS1A
Mark VIe Device Firmware	V04.03.15B
Mark VIe Device Software	ControlST V04.03.18C
Mark VIeS Device Firmware	V04.03.06C
Mark VIeS Device Software	ControlST V04.03.20C
Control Protocols	Default Level 1
Application Protocols	ControlST V04.03.18C
Evaluation Level	Achilles Level 1
Product Category	Embedded Device

Benefits

- Compliance with current and emerging cyber security standards and government regulations
- Supports plant operator cyber risk mitigation
- Reduces the cost of verifying product security claims
- Improves the reliability of integrated plant controls and supervisory systems with adherence to a common security benchmark

For further assistance or technical information, contact the nearest GE Sales or Service Office, or an authorized GE Sales Representative.

GEA-S1272A Issued: Nov 2011 Revised: July 2014