

IEEE Standards Association

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Current projects that have been authorized by the IEEE SA Standards Board to develop a standard.

No Active Projects

Standards approved by the IEEE SA Standards Board that are within the 10-year lifecycle.

1686-2022

IEEE Standard for Intelligent Electronic Devices Cybersecurity Capabilities

The functions and features to be provided in intelligent electronic devices (IEDs) to accommodate cybersecurity programs are defined in this standard. Security regarding the access, operation, configuration, firmware revision and data retrieval from an IED. Confidentiality, integrity, and availability of external interfaces of the IED is also addressed.

[Learn More About 1686-2022](#)

1686-2022/Cor 1-2025

IEEE Standard for Intelligent Electronic Devices Cybersecurity Capabilities--Corrigendum 1

The functions and features to be provided in intelligent electronic devices (IEDs) to accommodate cybersecurity programs are defined in this standard. Security regarding access, operation, configuration, firmware revision, and data retrieval from an IED is addressed. Confidentiality, integrity, and availability of external interfaces of the IED are also addressed. This corrigendum clarifies the definition of value forcing and updates outdated bibliographic references.

[Learn More About 1686-2022/Cor 1-2025](#)

These standards have been replaced with a revised version of the standard, or by a compilation of the original active standard and all its existing amendments, corrigenda, and errata.

1686-2007

IEEE Standard for Substation Intelligent Electronic Devices (IEDs) Cyber Security Capabilities

The functions and features to be provided in substation intelligent electronic devices (IEDs) to accommodate critical infrastructure protection programs are defined in this standard. Security regarding the access, operation, configuration, firmware revision, and data retrieval from an IED is addressed in this standard. Communications

for the purpose of power system protection (teleprotection) is not addressed. Encryption for the secure transmission of data both within and external to the substation, including supervisory control and data acquisition, is not part of this standard as this is addressed in other efforts.

[Learn More About 1686-2007](#)

These standards have been removed from active status through a ballot where the standard is made inactive as a consensus decision of a balloting group.

No Inactive-Withdrawn Standards

These standards are removed from active status through an administrative process for standards that have not undergone a revision process within 10 years.

No Inactive-Reserved Standards

Source: <https://standards.ieee.org/standard/1686-2013.html>