1. Record Nr.   UNISA996574867603316

   Titolo   1711.2-2019 - IEEE Standard for Secure SCADA Communications Protocol (SSCP) / / Institute of Electrical and Electronics Engineers

   Pubbl/distr/stampa   New York, New York : , : IEEE, , 2020

   ISBN   1-5044-6313-7

   Descrizione fisica   1 online resource (37 pages)

   Disciplina   005.14

   Soggetti   Computer security
                        Computer software - Verification

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

   Sommario/riassunto   A cryptographic protocol to provide integrity with optional confidentiality for cyber security of substation serial links is defined in this standard. It does not address specific applications or hardware implementations and is independent of the underlying communications protocol.The elevated concern of cyber security throughout the power industry has created a need to protect communications to and from substations. This standard defines a cryptographic protocol known as Secure SCADA Communications Protocol (SSCP) that protects the integrity and, optionally, the confidentiality of asynchronous serial communications typically used by control system equipment. SSCP is primarily intended to protect serial SCADA communications, but can be applied to other serial communications, such as the maintenance ports of intelligent electronic devices. SSCP is independent of the underlying communications link and protocol (e.g., Modbus, DNP3, IEC 60870- 5), and is appropriate for serial communications over leased lines, dial-up lines, multi-drop links, radio, power line carrier, fiber optic, etc. SSCP is suitable for implementation in new equipment or for deployment in bump-in-the-wire devices retrofitting protection to existing systems.