

Technical Specification

Information technology—Home electronic system (HES) architecture

Part 3.6: Media and media dependent layers—Twisted pair for network based control of HES Class 1



SA/SNZ TS ISO/IEC 14543.3.6:2018

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- Australian Communications and Media Authority
- Australian Industry Group
- Australian Information Industry Association
- BICSI South Pacific (Australia)
- BICSI South Pacific (New Zealand)
- Communications Alliance
- Energy Networks Australia
- Engineers Australia
- KNX National Group
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Preface

This Technical Specification was prepared by the Joint Standards Australia/Standards New Zealand Committee CT-001, Communications Cabling.

The objective of this Technical Specification is to provide building owners, managers, architects, designers, manufacturers, installers, maintainers and users, with the requirements for the interconnection of entities used for home and building control via the medium powerline, to ensure compatibility and interoperability of equipment, for home electronic systems.

The expression 'home electronic system' (HES) covers any combination of electronic devices linked via a digital transmission network in homes, buildings and similar environments.

Committee CT-001 acknowledges that various alternate protocols and manufacturer dependent proprietary systems are used in Australia and New Zealand that may not conform with this Technical Specification. The SA/SNZ TS ISO/IEC 14543.3 series covers the KNX protocol and therefore SA/SNZ TS ISO/IEC 14543.3.1 to SA/SNZ TS ISO/IEC 14543.3.6 apply to implementations of that protocol only. Other standards in the SA/SNZ TS ISO/IEC 14543 series cover, or will cover, other standardised protocols.

This Technical Specification is part of a series which, when complete, will consist of the following parts:

- (a) SA/SNZ TS ISO/IEC 14543.3.1, *Information technology — Home electronic system (HES) architecture, Part 3.1: Communication layers — Application layer for network based control of HES Class 1*
- (b) SA/SNZ TS ISO/IEC 14543.3.2, *Information technology — Home electronic system (HES) architecture, Part 3.2: Communication layers — Transport, network and general parts of data link layer for network based control of HES Class 1*
- (c) SA/SNZ TS ISO/IEC 14543.3.3, *Information technology — Home electronic system (HES) architecture, Part 3.3: User process for network based control of HES Class 1*
- (d) SA/SNZ TS ISO/IEC 14543.3.4, *Information technology — Home electronic system (HES) architecture, Part 3.4: System management — Management procedures for network based control of HES Class 1*
- (e) SA/SNZ TS ISO/IEC 14543.3.5, *Information technology — Home electronic system (HES) architecture, Part 3.5: Media and media dependent layers — Powerline for network based control of HES Class 1*
- (f) SA/SNZ TS ISO/IEC 14543.3.6, *Information technology — Home electronic system (HES) architecture, Part 3.6: Media and media dependent layers — Twisted pair for network based control of HES Class 1* (this Technical Specification)

ISO/IEC 14543-3-7 has not been adopted as an Australian/New Zealand Technical Specification at this time due to an incompatibility with the *Australian Radiofrequency Spectrum Plan 2013*.

This Technical Specification is an identical adoption and has been reproduced from ISO/IEC 14543-3-6:2007, *Information technology — Home electronic system (HES) architecture — Part 3-6: Media and media dependent layers — Twisted pair for network based control of HES Class 1*.

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- (b) A full point substitutes for a comma when referring to a decimal marker.

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The terms 'normative' and 'informative' are used in Standards to define the application of the appendices or annexes to which they apply. A 'normative' appendix or annex is an integral part of a Standard, whereas an 'informative' appendix or annex is only for information and guidance.

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