

Technical Specification

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



SA/SNZ TS ISO/IEC 14543.3.2:2018

This Joint Australian/New Zealand Technical Specification was prepared by Joint Technical Committee CT-001, Communications Cabling. It was approved on behalf of the Council of Standards Australia on 4 March 2018 and by the New Zealand Standards Executive on 19 December 2017.

This Technical Specification was published on 17 May 2018.

The following are represented on Committee CT-001:

- Australian Chamber of Commerce and Industry
- 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
- Lighting Council Australia
- National Electrical and Communications Association
- Telecommunications Users Association of New Zealand

This Technical Specification was issued in draft form for comment as DR2 AS/NZS ISO/IEC 14543.3.2:2015.

Keeping Standards up-to-date

Ensure you have the latest versions of our publications and keep up-to-date about Amendments, Rulings, Withdrawals, and new projects by visiting:

www.standards.org.au

www.standards.govt.nz

www.saiglobal.com (sales and distribution)

ISBN 978 1 76072 059 9

Technical Specification

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

First published as SA/SNZ TS ISO/IEC 14543.3.2:2018.

COPYRIGHT

© ISO/IEC 2018 — All rights reserved

© Standards Australia Limited/the Crown in right of New Zealand, administered by the New Zealand Standards Executive 2018

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Cth) or the Copyright Act 1994 (New Zealand).

Jointly published by SAI Global Pty Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 and by Standards New Zealand, PO Box 1473, Wellington 6140.

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 media independent requirements for the data link layer and the requirements of the network layer and transport layer 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:

- SA/SNZ ISO/IEC TS 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*
- SA/SNZ ISO/IEC TS 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* (this Technical Specification)
- SA/SNZ ISO/IEC TS 14543.3.3, *Information technology — Home electronic system (HES) architecture, Part 3.3: User process for network based control of HES Class 1*
- SA/SNZ ISO/IEC TS 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*
- SA/SNZ ISO/IEC TS 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*
- SA/SNZ ISO/IEC TS 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*

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 14543-3-2:2006, *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*.

As this document has been reproduced from an International Standard, the following applies:

- (a) In the source text 'this part of ISO/IEC 14543' should read 'this Australian/New Zealand Technical Specification'.
- (b) A full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

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.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-