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Powerline Telecommunications (PLT);
Powerline communication recommendations for smart metering and home automation

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Contents

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Foreword

This Technical Report (TR) has been produced by ETSI Technical Committee Powerline Telecommunications (PLT).

1 Scope

The present document concentrates on recommendations for power line communication for smart meters and home automation using IP based transports along with DLMS/COSEM data models.

2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the reference document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at http://docbox.etsi.org/Reference.

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2.1 Normative references

The following referenced documents are necessary for the application of the present document.

Not applicable.

2.2 Informative references

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

[i.1] CENELEC EN 50065-1: "Signalling on low-voltage electrical installations in the frequency range 3 kHz to 148,5 kHz - Part 1: General requirements, frequency bands and electromagnetic disturbances".

[i.2] Recommendation ITU-T G.9972: "Coexistence mechanism for wireline home networking transceivers".

[i.3] IEC 62056-47: "Electricity metering - Data exchange for meter reading, tariff and load control - Part 47: COSEM transport layers for IPv4 networks".

[i.4] IEEE 802.15.4™: "IEEE Standard for Information technology-- Local and metropolitan area networks-- Specific requirements-- Part 15.4: Wireless Medium Access Control (MAC) and Physical Layer (PHY) Specifications for Low Rate Wireless Personal Area Networks (WPANs)".

[i.5] Recommendation ITU-T G.993.2: "VDSL2 :Very High Speed Digital Subcriber Line transceivers 2".

[i.6] Recommendation ITU-T G.9903: "Narrowband Orthogonal Frequency Division Multiplexing Power Line Communication Transceivers for G3-PLC Networks".

[i.7] Recommendation ITU-T G.9904: "Narrowband orthogonal frequency division multiplexing power line communication transceivers for PRIME networks".

[i.8] IEEE 1901.2™ - 2013: "IEEE Standard for Low-Frequency (less than 500kHz) Narrowband Power Line Communications for Smart grid Applications".

[i.9] IEEE 1901™ - 2010: "IEEE Standard for Broadband over Power Line Networks: Medium Access Control and Physical Layer Specifications".