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Information technology - CENELEC/ETSI Glossary of terms and definitions for broadband deployment including sustainability aspects

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Information technology - CENELEC/ETSI Glossary of terms and definitions for broadband deployment including sustainability aspects

Informationstechnik - CENELEC/ETSI-Wörterbuch von Begriffen für die Breitbandnutzung einschließlich Nachhaltigkeitsaspekte

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CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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Contents

Page

Foreword

This document (CLC/TR 50584:2014) has been prepared by CLC/TC 215 "Electrotechnical aspects of telecommunication equipment" and ETSI/TC ATTM “Access, Terminals, Transmission and Multiplexing”.

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This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association.

Introduction

This Technical Report has been prepared to support the harmonization of terminology used by Technical Committees of CENELEC and ETSI, who are working in the field of Broadband Deployment, to ensure that their deliverables use consistent terms and definitions. It will allow Technical Committees to revise their existing publications to align the partly diverging terminology, which can currently be found in some of those publications.

Technical Committees will benefit from a harmonized glossary of terms and definitions during the development of future documents, in particular for cross-over topics affecting several Technical Committees in CENELEC and/or ETSI. Furthermore, readers of those documents will appreciate an advanced understanding of different deliverables addressing the same field of technology, as discussions about the meaning of terms will be minimized.

An online version of this Technical Report can be found at the following URL:

http://uri.cenelec.eu/TRs/50584/2014/ed-01/CLCTR50584{2014}e.pdf

1 Scope

This Technical Report contains a list of terms and definitions to be used in standardization deliverables in the field of broadband deployment. These terms and definitions are taken from both published and draft deliverables that were/are being developed by CLC/TC 215 and ETSI/TC ATTM, respectively.

NOTE CLC/TC 215 and ETSI/TC ATTM intended to examine the harmonization of differing terms and definitions in the future.

2 General

2.1.1
application
system, with its associated transmission method that is supported by telecommunications cabling

[SOURCE: EN 50173-1:2011, 3.1.5]

2.1.2
application
system, with its associated transmission method that is supported by telecommunications cabling (this corresponds to a Layer One application in the OSI 7-layer model)

[SOURCE: ETSI/TR 105 174-5-1 V1.1.1 (2009-10), 3.1; ETSI/TR 105 174-5-2 V1.1.1 (2009-10), 3.1]

2.2.1
broadcast and communication technologies
group of applications using the HF band (3 MHz to 30 MHz), the VHF band (30 MHz to 300 MHz) and the UHF band (300 MHz to 3 000 MHz) for transmission of sound radio, TV and two-way data services, as well as for in-home inter-networking

[SOURCE: EN 50173-1:2011, 3.1.14]

2.2.2
Broadcast Communication Technology (BCT) application
system, with its associated transmission method using the HF band (3 MHz to 30 MHz), the VHF band (30 MHz to 300 MHz) and the UHF band (300 MHz to 3 000 MHz) dedicated to the transmission of sound radio, TV and two-way data services, as well as for in-home inter-networking

NOTE: See EN 50173-1 [i.2] modified.

[SOURCE: ETSI/TR 105 174-5-1 V1.1.1 (2009-10), 3.1; ETSI/TR 105 174-5-2 V1.1.1 (2009-10), 3.1]

2.3
Industrial, Scientific and Medical (ISM) band
band of radio frequencies allocated for use for industrial, scientific and medical purposes

[SOURCE: ETSI/TR 105 174-4 V1.1.1 (2009-10), 3.1]

2.4.1
information and communication technologies
group of applications using information and communications (telecommunications) technologies

[SOURCE: EN 50173-1:2011, 3.1.42]

2.4.2
Information Communication Technology (ICT) applications
system, with its associated transmission method for the communication of information

NOTE: See EN 50173-1 [i.2] modified.

[SOURCE: ETSI/TR 105 174-5-1 V1.1.1 (2009-10), 3.1; ETSI/TR 105 174-5-2 V1.1.1 (2009-10), 3.1]

3 Terms and definitions for networks and service provision

3.1 Networks

3.1.1
community antenna television
system which is designed to provide sound and television signals received by terrestrial, satellite antennas or provided by locally generated sources to the outlets of a large group of buildings

[SOURCE: CLC/TR 50173-99-2:2010, 3.1.4]

3.1.2
community network
communications network, usually wireless, established by and for a local community often to compensate for lack of publicly available access to relevant facilities

[SOURCE: ETSI/TR 105 174-4 V1.1.1 (2009-10), 3.1]

3.1.3.1
core network
functional elements (that is equipment and infrastructure) that enable communication between operator sites and/or network data centres

[SOURCE: EN 50174-3:2013, 3.1.7; ETSI/TS 105 174-1 V1.2.1 (2014-09), 3.1]

3.1.3.2
core network
functional elements (equipment and infrastructure) that enable communication between operator sites and/or network data centres

[SOURCE: EN 50700:2014, 3.1.6]

3.1.4
core infrastructure
core network
functional elements (that is equipment and infrastructure) that enable communication between operator sites and/or operator data centres

[SOURCE: ETSI/TS 105 174-1 V1.2.1 (2014-09), 3.1; draft ETSI/ES 205 200-2-3:2014, 3.1]

3.1.5.1
customer network
functional elements (equipment and infrastructure) that enable communication between the subscriber interface and one or more attached terminal equipment

[SOURCE: EN 50700:2014, 3.1.7]

3.1.5.2
customer network
functional elements (that is equipment and infrastructure) that enable communication between an NTP or ENTI, as appropriate, and one or more attached terminal equipments

[SOURCE: ETSI/TS 105 174-1 V1.2.1 (2014-09), 3.1]

3.1.6
distribution access network
sub-part of the access network comprising the functional elements that enable communication between the last operator connection point and the subscriber interface

[SOURCE: EN 50700:2014, 3.1.9]

3.1.7
distribution infrastructure
sub-part of the access network comprising the functional elements that enable communication between the last cabinet and a customer network

[SOURCE: ETSI/TS 105 174-1 V1.2.1 (2014-09), 3.1]

3.1.8
enterprise network
network established by a large company or similar enterprise to serve its internal telecommunications needs with connectivity to one or more public networks

[SOURCE: ETSI/TR 105 174-4 V1.1.1 (2009-10), 3.1]

3.1.9
fibre to the cabinet
optical fibre distribution network providing connectivity from the network operator's site to a shared distribution node close to the end-user's premises

[SOURCE: ETSI/TR 105 174-4 V1.1.1 (2009-10), 3.1]

3.1.10
fixed access network
functional elements that enable wired (including optical fibre) communications to customer equipment

[SOURCE: ETSI/ES 205 200-1 V1.2.1(2014-03), 3.1]

3.1.11
intrusion detection system
mechanism by which any attempt by an unauthorized user or terminal to gain access to a communications network is detected

[SOURCE: ETSI/TR 105 174-4 V1.1.1 (2009-10), 3.1]

3.1.12
meshed network
communications network, usually wireless, in which every node has connectivity with a number of other nodes thus enabling a variety of possible communication paths between nodes

[SOURCE: ETSI/TR 105 174-4 V1.1.1 (2009-10), 3.1]

3.1.13
network convergence
ability of a network, by virtue of the applications it supports, to deliver multiple ICT, BCT and CCCB services

[SOURCE: ETSI/TR 105 174-5-1 V1.1.1 (2009-10), 3.1]

3.1.14
network gateway
device which will enable the interconnecting of two networks which inherently use different and incompatible protocols

[SOURCE: ETSI/TR 105 174-4 V1.1.1 (2009-10), 3.1]

3.1.15
other network group
mobile access network serving a specific area

NOTE: This area is not urban or rural network group.

[SOURCE: Draft ETSI ES 205 200-2-3:2014]

3.1.16
point-to-multi-point
communications link operating between a network operator's site and a number of other locations

[SOURCE: ETSI/TR 105 174-4 V1.1.1 (2009-10), 3.1]

3.1.17
point-to-point
communications link operating between two, usually fixed, locations

[SOURCE: ETSI/TR 105 174-4 V1.1.1 (2009-10), 3.1]

3.1.18
premises distribution access network
sub-part of the access network within multi-subscriber premises comprising the functional elements that enable communication between the access demarcation point and the subscriber interface

[SOURCE: EN 50700:2014, 3.1.17]

3.1.19
rural network group
mobile access network serving an area with an average population density of 20 inhabitants/km^2 to 50 inhabitants/km^2

NOTE: This includes villages of up to 50 000 inhabitants.

[SOURCE: Draft ETSI ES 205 200-2-3:2014, 3.1]

3.1.20
transport access network
sub-part of the access network comprising the functional elements that enable communication between the core network and the last operator connection point

[SOURCE: EN 50700:2014, 3.1.12]

3.1.21
transport infrastructure
sub-part of the access network comprising the functional elements that enable communication between the core network and the last cabinet and a customer network

[SOURCE: ETSI/TS 105 174-1 V1.2.1 (2014-09), 3.1]

3.1.22
urban network group
mobile access network serving an area with a population density of 4 000 inhabitants/km^2 to 6 000 inhabitants/km^2

[SOURCE: Draft ETSI ES 205 200-2-3:2013]

3.2 Service provision

3.2.1.1
access provider
operator or another entity providing the means to enable external telecommunications service provision to a subscriber

[SOURCE: EN 50700:2014, 3.1.3; EN 50174-3:2013, 3.1.2; EN 50174-2:2009/A2:2014, 3.1.1]

3.2.1.2
access provider
operator of any facility that is used to convey telecommunications signals to and from a customer premises

[SOURCE: EN 50600-2-1:2014, 3.1.2; CLC/TR 50173-99-3:2012, 3.1.2]

3.2.2
building operator
operator who installs and is responsible for the maintenance of the vertical and/or horizontal cabling in the building and gives an access to it to the other operators

[SOURCE: ETSI/TS 101 573 V1.1.1 (2012-09) 3.1]

3.2.3
customer
person or entity using a telecommunications service and who may or may not be the subscriber

[SOURCE: ETSI/TR 105 174-4 V1.1.1 (2009-10), 3.1]

3.2.4
external service provider
operator of any service that furnishes telecommunications content (transmissions) delivered over access provider facilities

[SOURCE: CLC/TR 50173-99-3:2012, 3.1.7]

3.2.5
hotspot
location that offers publicly accessible internet access over a wireless connection

[SOURCE: ETSI/TR 105 174-4 V1.1.1 (2009-10), 3.1]

3.2.6
multi-building subscriber
subscriber accommodated in more than one building within the premises

[SOURCE: EN 50700:2014, 3.1.13]

3.2.7
multi-subscriber premises
premises which are designed to accommodate more than one subscriber

[SOURCE: EN 50700:2014, 3.1.14]