**IEEE P802.24**

**Smart Grid TAG**

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| Project | IEEE P802.24 Smart Grid Technical Advisory Group | |
| Title |  | |
| Date Submitted | 12 November 2013 | |
| Source | San Diego, CA | Voice:  Fax: N/A E-mail: last name at ieee dot org |
| Re: | CEN-CENELEC-ETSI Smart Grid Coordination Group (SGCG) First Group of Standards | |
| Abstract | This document is a result of the review of CEN-CENELEC-ETSI Smart Grid Coordination Group (SGCG) First Group of Standards (November 2012) by IEEE 802.24 Smart Grid TAG. The document includes suggestions to improve the document with respect to IEEE 802 standards. | |
| Purpose | Provide feedback to CEN-CENELEC-ETSI SGCG on the First Group of Standards. | |
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# Introduction

## First Set of Standards

CEN-CENELEC-ETSI Smart Grid Coordination Group (SGCG) published a First Set of Standards for Smart Grids[[1]](#footnote-2) in November 2012. IEEE 802.24 Smart Grid Advisor Group (TAG) became aware of the document in August 2013. IEEE 802.24 performed a review of the document from September 2013 through November 2013. The review showed that the SGCG had done an excellent job in summarizing many of the capabilities of IEEE 802 standards that are appropriate for Smart Grid applications.

IEEE 802.24 would like to provide suggestions to the SGCG to improve the information regarding IEEE 802 standards that are appropriate for Smart Grid applications.

## IEEE 802.24 Smart Grid TAG

The IEEE 802.24 Smart Grid Technical Advisory Group (TAG):

* Acts as a liaison and point of contact with regulatory agencies, industry organizations, other SDOs, government agencies, IEEE societies, etc., for questions regarding the use of IEEE 802 standards in Smart Grid applications.
* Facilitate coordination and collaboration among IEEE 802 groups.
* Provides speakers as needed and available to present on IEEE 802 standards in Smart Grid applications.
* Develops white papers, guidelines, presentations and other documents that do not require a PAR that describe the application of IEEE 802 standards to Smart Grid applications.
* Acts as a resource for understanding IEEE 802 standards for certification efforts by industry bodies.

# Suggestions

1. General: 802.3/1 is misleading as it implies 802.1 protocols are only relevant to 802.3 as the underlying communications technology. In most cases, it is sufficient to specify it as 802.3 as 802.1 is used over other IEEE 802 MAC/PHY technologies.
2. Page 144

Change 802.1x to be 802.1X

(have 802.1 review last paragraph on page 144 for correctness).

1. Page 161, 162
   1. Remove duplicate entry for 802.15.4
   2. For remaining 802.15.4 entry, please add and “X” for Industrial Fieldbus, low end Intra substation, Intra substation, Inter substation, and WAN.
   3. Add an “X” for subscriber access, inter-substation, FAN and NAN for 802.3 because 802.3 EPON and other Ethernet in the First Mile technologies are applicable.
   4. For 802.11, add “X” for Enterprise, low end Intra substation, Intra substation, Inter substation
   5. 802.16 – add “X” for WAN, Inter substation
   6. 802.22 – add “X” for WAN, Inter substation
2. Page 162

Change the link for 802.15.4 to be http://standards.ieee.org/about/get/802/802.15.html.

1. Page 164

802.3av has now been merged into the base document IEEE Std 802.3 2012 so separate listing is not be appropriate.

1. Page 175

802.1X, 802.1AE, 802.1AR (802.1 to check references).

* 1. Please add the following entries:

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| --- | --- | --- |
| Communication, Information | 802.11 | Specifies MAC layer encryption and data authentication. |
| Communication, Information | 802.15.4 | Specifies MAC layer encryption and data authentication. |
| Communication, Information | 802.16 | Specifies MAC layer encryption and data authentication. |
| Communication, Information | 802.21a | Specifies encryption extension for media independent handover. |
| Communication, Information | 802.22 | Specifies MAC layer encryption and data authentication. |

1. Page 207
   1. 802.1AS should have a check under clock reference system.
   2. Add another entry for 802.3.1 with a check under communication network management as this standard is used for network management of 802.3 networks.
   3. Add a check under communication network management for 802.11
   4. Add a check under communication network management for 802.11
   5. Add an entry for 802.21 and a check under teleommunication
   6. Add an entry for 802.22 and check under communication network management.

1. CEN-CENELEC-ETSI Smart Grid Coordination Group First Set of Standards, ftp://ftp.cen.eu/EN/EuropeanStandardization/HotTopics/SmartGrids/First%20Set%20of%20Standards.pdf [↑](#footnote-ref-2)