IEEE P802.11  
Wireless LANs

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| Liaison statements from ITU-T SG15 | | | | |
| Date: 2024-01-09 | | | | |
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Abstract

This document contains 2 liaison documents, including an attachment, received from ITU-T Study Group 15 on the topics of (a) LS84, WLAN management control interface G.wmci for an in-premises network and (b) LS76, the Home Network Transport (HNT) Standards Overview and Work Plan. The received liaisons are embedded below and copied on the following pages.

 

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|  | INTERNATIONAL TELECOMMUNICATION UNION  **TELECOMMUNICATION STANDARDIZATION SECTOR**  STUDY PERIOD 2022-2024 | | | SG15-LS84 |
| **STUDY GROUP 15** |
| **Original: English** |
| **Question(s):** | | 3/15 | | Geneva, 20 November – 1 December 2023 |
| **LS** | | | | |
| **Source:** | | ITU-T Study Group 15 | | |
| **Title:** | | LS on new Recommendation of G.wmci (WLAN management control interface (WMCI) for in-premises network) | | |
| **LIAISON STATEMENT** | | | | | |
| **For action to:** | | | - | | |
| **For information to:** | | | IEEE 802.11, WFA, Broadband Forum, ETSI ISG F5G, CCSA TC6 WG2 | | |
| **Approval:** | | | SG15 meeting (Geneva, 1 December 2023) | | |
| **Deadline:** | | | N/A | | |
| **Contact:** | | Les Brown Huawei China | | Tel: +1 (905) 826-4248 Cell: +1 (647) 290-1900 E-mail: [lesbrown@sympatico.ca](mailto:lesbrown@sympatico.ca) | |

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| **Abstract:** | Outgoing liaison to IEEE 802.11 & WFA on new Recommendation of G.wmci (WLAN management control interface (WMCI) for in-premises network). |

ITU-T SG15 Q3 has developed a series of Recommendations for fibre in-premises networking, The G.994x series for point-to-multipoint topologies (G.fin project), and G.9930 for point-to-point topology (G.p2pf project). A system architecture Recommendation, ITU-T G.9940, has been approved at the December 2023 SG15 meeting. Recommendations for the G.fin PHY (ITU-T G.9941) and G.fin DLL (ITU-T G.9942) were consented at the December 2023 SG15 meeting. In addition, G.9930 was also consented at this meeting. It is anticipated that these will be approved at the July 2024 SG15 meeting.

Recognizing that for the home environment, both WLAN and fibre connections will exist, it is beneficial to provide a means to help coordinate the traffic over WLAN and fibre. Q3/15 has initiated a new project (G.wmci) to develop a data model and associated interface design for this. This work will include the specification of a very low latency fibre channel to convey wireless coordination information.

Attached is the project justification for this new project for your information.

The G.wmci specification will leverage the current IEEE802.11 & WFA protocols to make good use of the fibre link. We are also looking forward to collaboration with you.

Attachment: A.1 justification for G.wmci from TD213/PLEN

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A.1 justification for proposed draft new ITU-T Recommendation G.wmci: “Wireless management control interface”

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| **Question:** | | Q3/15 | | **Proposed new ITU-T Recommendation** | | | Geneva, 20 Nov -1 Dec 2023 | | | |
| **Reference and title:** | | ITU-T G.wmci " WLAN management control interface (WMCI) for in-premises network " | | | | | | | | |
| **Base text:** | | T22-SG15RGM-Q3-230919-C-0018 | | | | | | **Timing:** | 2025-06 | |
| **Editor(s):** | | Qiang Cheng, CAICT, chengqiang@caict.ac.cn  Hai Ding, China Unicom, dinghai2@chinaunicom.cn | | | | | | **Approval process:** | AAP | |
| **Scope** (defines the intent or object of the Recommendation and the aspects covered, thereby indicating the limits of its applicability): | | | | | | | | | | |
| This recommendation specifies the management and controlling interface for dynamic wireless coordination (i.e. WLAN coordination) between controller(s) (e.g. in an MFU) and one or more local coordinators (e.g. in an SFU). The specification will define the data model and any related interface design over a G.fin network. | | | | | | | | | | |
| **Summary** (provides a brief overview of the purpose and contents of the Recommendation, thus permitting readers to judge its usefulness for their work): | | | | | | | | | | |
| This Recommendation specifies the wireless management and control interface between controller(s) and local coordinators for in-premises network in order to provide centralized coordination of access points. For example, in fibre-based in-premises network, the controller is located at the MFU while the local coordinators are located in the SFUs. The wireless management and control interfaces is utilized to convey wireless coordination information to multiple APs between the controller(s) in the MFU and the local coordinators in the SFUs.  The WMCI specification will define the coordination data model and corresponding protocol design for G.fin networks. The content of the Recommendation includes:   * Coordination scenarios and coordination requirements * Coordination data model that can be encapsulated as management and control messages, including channel status, data buffering status, transmission opportunities, etc. * Protocol interface design, including frame design, exchanging procedure. | | | | | | | | | | |
| **Relations to ITU-T Recommendations or to other standards** (approved or under development)**:** | | | | | | | | | | |
| ITU-T G.9940, G.9941, G.9942, G.9943  ETSI GR F5G 001/002/008/020/021 | | | | | | | | | | |
| **Liaisons with other study groups or with other standards bodies:** | | | | | | | | | | |
| Broadband Forum  ETSI ISG F5G  CCSA TC6 WG2  IEEE 802.11  WFA | | | | | | | | | | |
| **Supporting members that are committing to contributing actively to the work item:** | | | | | | | | | | |
| Huawei  CAICT MITT  China Unicom  CICT | | | | | | | | | | |
|  | INTERNATIONAL TELECOMMUNICATION UNION  **TELECOMMUNICATION STANDARDIZATION SECTOR**  STUDY PERIOD 2022-2024 | | | | | SG15-LS76 | | | |
| **STUDY GROUP 15** | | | |
| **Original: English** | | | |
| **Question(s):** | | | 1/15 | | | Geneva, 20 November – 1 December 2023 | | | |
| **LS** | | | | | | | | | |
| **Source:** | | | ITU-T Study Group15 | | | | | | |
| **Title:** | | | LS on the new version of the Home Network Transport (HNT) Standards Overview and Work Plan | | | | | | |
| **LIAISON STATEMENT** | | | | | | | | | |
| **For action to:** | | | | | ITU-T TSAG, SG5, SG9, SG13, SG16, SG17 ITU-R SG1, SG5, SG6 ETSI TC ATTM ISO/IEC JTC 1/SC 25, IEEE 802.3, IEEE 802.11, Broadband Forum, MoCA | | | | |
| **For information to:** | | | | |  | | | | |
| **Approval:** | | | | | ITU-T SG15 meeting (1 December 2023) | | | | |
| **Deadline:** | | | | | 14 June 2024 | | | | |
| **Contact:** | | | Jean-Marie Fromenteau Corning Incorporated USA | | | Tel: +49 9561 42 74 20 E-mail: [fromentejm@corning.com](mailto:fromentejm@corning.com) | | | |
| **Contact:** | | | Dekun Liu Huawei Technologies Co., Ltd. P.R. China | | | E-mail: [liudekun@huawei.com](mailto:liudekun@huawei.com) | | | |

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| **Abstract:** | This LS invites the ITU-T and ITU-R Study Groups and other standards organizations engaged in developing standards related to HNT to review and provide their updates on the new version of the Home Network Transport (HNT) Standards Overview and Work Plan document as well as of the web-based HNT Standards Overview. |

ITU-T Study Group 15 entrusted WP1/15, under Question 1/15, with the task to manage and carry out the Lead Study Group on Home Network Transport (HNT) Standards activities.

The existing HNT standards are listed in the web-based HNT Standards Overview hosted in the web-based ITU-T Standards Landscape platform found on SG15 website on page “Documentation” and at URL [ITU-T landscape for ICT standards - HNT](https://www.itu.int/itu-t/landscape/?topic=tx153&group=g&search_text=) .

The web presentation of the HNT Standards Overview as well as the document HNT Standards Overview and Work Plan were revised and updated during the ITU-T SG15 meeting, 20 November  
- 1 December 2023. The new updated version of the HNT document can be found at <https://www.itu.int/en/ITU-T/studygroups/Pages/sg15-hnt.aspx> .

Q1/15 would like to express thanks for your kind cooperation, especially to those organizations that have been previously contacted and made specific recommendations to update the HNT Standards Overview and Work Plan by LS.  
As usual after each revision, Q1/15 would like to draw your attention to the HNT Standards Overview and Work Plan and would appreciate any suggestions and comments.

HNT Standards Overview  
The published HNT standards concerning your group are listed in the web-based HNT Standards Overview. The taxonomy of the web-based HNT Standards Overview as well as a guide on its use are provided in Section 3 and Annex 1 respectively of the HNT Standards Overview and Work Plan document. Q1/15 invites you to review the web-based HNT Standards Overview as well as the related Section 3 of the HNT Standards Overview and Work Plan document.

HNT Standards Work Plan  
Section 4.2 “Ongoing standardization activities in the area of Home Network Transport in other ITU Study Groups” and Section 4.3 “Ongoing standardization activities in the area of Home Network Transport in other Standards Development Organizations” provide information on the work plans and ongoing HNT activities of various standardization groups outside ITU-T SG15 WP1/15. Q1/15 invites you to review the status of the standardization activities related to HNT within your group or organization and to point out identified issues, gaps and overlaps regarding HNT standardization.  
Section 5 “List of Contacts” contains a contacts list of standards organizations engaged in developing standards related to HNT. Q1/15 will welcome your comments and suggestions on this list, including any candidate standards organizations to add or you believe could be removed as not pertinent to the HNT Standardization and Work Plan.

ITU-T SG15 looks forward to future liaisons with all pertinent ITU-T and ITU-R Study Groups, and other pertinent SDOs to keep the HNT Standards Overview and Work Plan current, relevant and effective.

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**References:**