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|  | INTERNATIONAL TELECOMMUNICATION UNION  **TELECOMMUNICATION STANDARDIZATION SECTOR**  STUDY PERIOD 2017-2020 | | | | TSAG-TD872 |
| **TSAG** |
| **Original: English** |
| **Question(s):** | | N/A | | | Geneva, 21-25 September 2020 |
| **TD (Ref.:** [SG9-LS110](http://handle.itu.int/11.1002/ls/sp16-sg9-oLS-00110.docx)) | | | | | |
| **Source:** | | ITU-T Study Group 9 | | | |
| **Title:** | | LS/r on the new version of the Access Network Transport (ANT) Standards Overview and Work Plan (SG15-LS226) [from ITU-T SG9] | | | |
| **Purpose:** | | Information | | | |
| **LIAISON STATEMENT** | | | | | |
| **For action to:** | | | ITU-T SG15 | | |
| **For comment to:** | | | - | | |
| **For information to:** | | | BROADBAND FORUM, ITU-R SG 1, ITU-R SG 5, ITU-R SG 6, ETSI TC ATTM, ITU-T SG12, SG13, SG16, SG17, TSAG, IEEE.802.3 | | |
| **Approval:** | | | ITU-T SG9 meeting (E-meeting, 23 April 2020) | | |
| **Deadline:** | | | N/A | | |
| **Contact:** | | | Zhongzhao Li ABP, NRTA China | Tel: +86 10 86093737 Fax: +86 10 86093658 E-mail: [lizhongzhao@abp2003.cn](mailto:lizhongzhao@abp2003.cn) | |
| **Contact:** | | | Satoshi Miyaji KDDI Corporation Japan | Tel: +81 3 6328 1905  Fax: +81 3 6757 1271 E-mail: [sa-miyaji@kddi.com](mailto:sa-miyaji@kddi.com) | |

A new liaison statement has been received from SG9.

This liaison statement follows and the original file can be downloaded from the ITU ftp server at <http://handle.itu.int/11.1002/ls/sp16-sg9-oLS-00110.docx>.

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|  | INTERNATIONAL TELECOMMUNICATION UNION  **TELECOMMUNICATION STANDARDIZATION SECTOR**  STUDY PERIOD 2017-2020 | | | | | SG9-LS110 |
| **STUDY GROUP 9** |
| **Original: English** |
| **Question(s):** | | | 10/9 | | | E-meeting, 16-23 April 2020 |
| **Ref.: SG9-TD875** | | | | | | |
| **Source:** | | | ITU-T SG9 | | | |
| **Title:** | | | LS/r on the new version of the Access Network Transport (ANT) Standards Overview and Work Plan (SG15-LS226) [to ITU-T SG15 and ITU-T TSAG; ITU‑T SG12, SG13, SG16, SG17, ITU-R SG1, SG5, SG6, ETSI TC ATTM, IEEE 802.3, BBF] | | | |
| **LIAISON STATEMENT** | | | | | | |
| **For action to:** | | | | | ITU-T SG15 | |
| **For comment to:** | | | | | - | |
| **For information to:** | | | | | ITU-T TSAG; ITU-T SG12, SG13, SG16, SG17, ITU-R SG1, SG5, SG6 ETSI TC ATTM, IEEE 802.3, BBF | |
| **Approval:** | | | | | **ITU-T SG9 meeting (E-meeting, 23 April 2020)** | |
| **Deadline:** | | | | | N/A | |
| **Contact:** | | | | Zhongzhao Li ABP, NRTA China | | Tel: +86 10 86093737 Fax: +86 10 86093658 E-mail: [lizhongzhao@abp2003.cn](mailto:lizhongzhao@abp2003.cn) | |
| **Contact:** | | Satoshi Miyaji KDDI Corporation Japan | | | | Tel: +81 3 6328 1905  Fax: +81 3 6757 1271 E-mail: [sa-miyaji@kddi.com](mailto:sa-miyaji@kddi.com) |

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| **Keywords:** | ANT Standards; Overview; Work Plan |
| **Abstract:** | This liaison statement proposes revision of Access Network Transport (ANT) Standards activities in ITU-T SG9. |

ITU-T Study Group 9 would like to thank Study Group 15 for informing us about the new version of the Access Network Transport (ANT) Standards Overview and Work Plan(Ref:[SG15-LS226](https://www.itu.int/ifa/t/2017/ls/sg15/sp16-sg15-oLS-00226.docx)).

We have reviewed the liaison statement and would like to propose updates of the table on Organization of ANT Relevant Standards by Transmission Medium and Technology, which can be found in Table 1 with revision marks. ITU-T SG9 invites ITU-T SG15 to review the updates of “Organization of ANT Relevant Standards by Transmission Medium and Technology”.

As Mr Kawamura (KDDI Corporation) has been newly appointed as Q1/9 Rapporteur, ITU-T Study Group 9 would like to provide updates of “Contacts” of the ANT Standards Work Plan, as shown in Table 2.

Enclosed are the following tables for your consideration:

* Table 1 – Organization of ANT Relevant Standards by Transmission Medium and Technology
* Table 2 – “Contacts” of the ANT Standards Work Plan

ITU-T SG9 looks forward to keeping continued collaboration with ITU-T SG15.

**Table 1 - Organization of ANT Relevant Standards by Transmission Medium and Technology**

**General Aspects (Gen. Asp.) =** General requirements, architecture and functions  
**Medium:** **F**= Fiber; **C**= Coax; **P**= Twisted pair; **A**= Wireless  
**Technology: I**= ISDN; **D**= DSL; **G**= G.fast; **E**= PtP; **P**= PON; **H**= HFC; **W**= Fixed Wireless Access and Satellite, incl HAPS ; **L**= PLC

| **Stds** | **Number** | **Title** | **Gen.**  **Asp.** | **Medium** | | | | **Technology** | | | | | | | | **Public. Date** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Body** |  |  |  | **F** | **C** | **P** | **A** | **I** | **D** | **G** | **E** | **P** | **H** | **W** | **L** |  |
| ANSI/ SCTE | ANSI/SCTE 23-1 2017 | DOCSIS 1.1 Part 1: Radio Frequency Interface |  |  | X |  |  |  |  |  |  |  | X |  |  | 2017 |
| ITU-T | J-1 (01/2019) | Terms, definitions and acronyms for television and sound transmission and integrated broadband cable networks | X |  | X |  |  |  |  |  |  |  | X |  |  | 01/2019 |
| ITU-T | J.2 (09/1999) | Guidelines on the use of some ITU-T Recommendations in the J series |  |  | X |  |  |  |  |  |  |  | X |  |  | 09/1999 |
| ITU-T | J.83 (12/2007) | Digital multi-programme systems for television, sound and data services for cable distribution | X |  | X |  |  |  |  |  |  |  | X |  |  | 12/2007 |
| ITU-T | J.87 (03/2001) | Use of hybrid cable television links for the secondary distribution of television into the user’s premises |  |  | X |  |  |  |  |  |  |  | X |  |  | 03/2001 |
| ITU-T | J.93 (03/1998) | Requirements for conditional access in the secondary distribution of digital television on cable television systems |  |  | X |  |  |  |  |  |  |  | X |  |  | 03/1998 |
| ITU-T | J.110 (04/1997) | Basic principles for a worldwide common family of systems for the provision of interactive television services |  |  | X |  |  |  |  |  |  |  | X |  |  | 04/1997 |
| ITU-T | J.111 (03/1998) | Network independent protocols for interactive systems |  |  | X |  |  |  |  |  |  |  | X |  |  | 03/1998 |
| ITU-T | J.112 (03/1998) | Transmission systems for interactive cable television services |  |  | X |  |  |  |  |  |  |  | X |  |  | 03/1998 |
| ITU-T | J.112 (03/2001) Annex A | Digital Video Broadcasting: DVB interaction channel for Cable TV (CATV) distribution systems |  |  | X |  |  |  |  |  |  |  | X |  |  | 03/2001 |
| ITU-T | J.112 (03/2004) Annex B | Data-over-cable service interface specifications: Radio-frequency interface specification |  |  | X |  |  |  |  |  |  |  | X |  |  | 03/2004 |
| ITU-T | J.112 (03/2002)  Annex C | Data-over-cable service interface specifications: Radio-frequency interface specification using QAM technique |  |  | X |  |  |  |  |  |  |  | X |  |  | 02/2002 |
| ITU-T | J.122 (12/2007) | Second Generation Transmission Systems for Interactive Cable Television Services – IP Cable Modems |  |  | X |  |  |  |  |  |  |  | X |  |  | 12/2007 |
| ITU-T | J.125 (12/2007) | Link privacy for cable modem implementations |  |  | X |  |  |  |  |  |  |  | X |  |  | 12/2007 |
| ITU-T | J.126 (12/2007) | Embedded Cable Modem device specification |  |  | X |  |  |  |  |  |  |  | X |  |  | 12/2007 |
| ITU-T | J.160 (11/2005) | Architectural framework for the delivery of time-critical services over cable television networks using cable modems |  |  | X |  |  |  |  |  |  |  | X |  |  | 11/2005 |
| ITU-T | J.184 (03/2001) | Digital Broadband Delivery System:  Out Of Band Transport |  |  | X |  |  |  |  |  |  |  | X |  |  | 03/2001 |
| ITU-T | J.185 (06/2012) | Transmission equipment for transferring multi-channel television signals over optical access networks by frequency modulation conversion |  | X | X |  |  |  |  |  |  | X |  |  |  | 06/2012 |
| ITU-T | J.186 (06/2008) | Transmission equipment for multi-channel television signals over optical access networks by sub-carrier multiplexing (SCM) |  | X | X |  |  |  |  |  |  | X |  |  |  | 06/2008 |
| ITU-T | J.195.1 (03/2016)  (J.HiNoC-req) | Functional requirements for high speed transmission over coaxial networks connected with fibre to the building |  | X | X |  |  |  |  |  |  |  | X |  |  | 03/2016 Supersedes Ed.1 03/2013 |
| ITU -T | J.195.2 (10/2014)  (J.HiNoC-phy) | Physical layer specification for high speed transmission over coaxial networks |  |  | X |  |  |  |  |  |  |  | X |  |  | 10/2014 |
| ITU-T | J.195.3 (10/2014)  (J.HiNoC-mac) | Medium Access Control layer specification for high speed transmission over coaxial networks |  |  | X |  |  |  |  |  |  |  | X |  |  | 10/2014 |
| ITU-T | J.196.1 (03/2016)  (J.HiNoC2-req) | Functional requirements for second-generation HiNoC |  |  | X |  |  |  |  |  |  |  | X |  |  | 03/2016 |
| ITU-T | J.196.2 (10/2016) (J.HiNoC2-phy) | Physical layer specification of second generation HiNoC |  |  | X |  |  |  |  |  |  |  | X |  |  | 10/2016 |
| ITU-T | J.196.3 (10/2016) (J.HiNoC2-mac) | Media Access Control (MAC) layer specification of second generation HiNoC |  |  | X |  |  |  |  |  |  |  | X |  |  | 10/2016 |
| ITU-T | J.210 (11/2006) | Downstream RF Interface for Cable Modem Termination Systems |  |  | X |  |  |  |  |  |  |  | X |  |  | 11/2006 |
| ITU-T | J.211 (11/2006) | Timing Interface for Cable Modem Termination Systems |  |  | X |  |  |  |  |  |  |  | X |  |  | 11/2006 |
| ITU-T | J.212 (11/2006) | Downstream External PHY Interface for Modular Cable Modem Termination Systems |  |  | X |  |  |  |  |  |  |  | X |  |  | 11/2006 |
| ITU-T | J.214 (07/2007) | Cable modem TDM emulation interface |  |  | X |  |  |  |  |  |  |  | X |  |  | 07/2007 |
| ITU-T | J.216 (07/2019) | Second-generation modular headend architecture in systems for interactive cable television services - IP cable modems |  |  | X |  |  |  |  |  |  |  | X |  |  | 07/2019 |
| ITU-T | J.218 (07/2007) | Cable modem IPv4 and IPv6 eRouter specification |  |  | X |  |  |  |  |  |  |  | X |  |  | 07/2007 |
| ITU-T | J.222.0 (12/2007) | Third-generation transmission systems for interactive cable television services – IP cable modems: Overview |  |  | X |  |  |  |  |  |  |  | X |  |  | 12/2007 |
| ITU-T | J.222.1 (07/2007) | Third-generation transmission systems for interactive cable television services – IP cable modems: Physical layer specification |  |  | X |  |  |  |  |  |  |  | X |  |  | 07/2007 |
| ITU-T | J.222.2 (07/2007) | Third-generation transmission systems for interactive cable television services – IP cable modems: MAC and Upper Layer protocols |  |  | X |  |  |  |  |  |  |  | X |  |  | 07/2007 |
| ITU-T | J.222.3 (11/2007) | Third-generation transmission systems for interactive cable television services – IP cable modems: Security services |  |  | X |  |  |  |  |  |  |  | X |  |  | 11/2007 |
| ITU-T | J.223.1 (03/2016) | Functional requirements for Cabinet DOCSIS (C-DOCSIS) |  |  | X |  |  |  |  |  |  |  | X |  |  | 03/2016 |
| ITU-T | J.223.2 (10/2016) | Cabinet DOCSIS (C-DOCSIS) system specification |  |  | X |  |  |  |  |  |  |  | X |  |  | 10/2016 |
| ITU-T | J.224 (07/2019) | Fifth-generation transmission systems for interactive cable television services - IP cable modems |  |  | X |  |  |  |  |  |  |  | X |  |  | 07/2019 |
| ITU-T | J.225 | Fourth-generation transmission systems for interactive cable television services - IP cable modems |  |  | X |  |  |  |  |  |  |  | X |  |  | Consent 04/2020 |
| ITU-T | J.381 (09/2012) | Requirements for advanced digital cable transmission technologies |  |  | X |  |  |  |  |  |  |  | X |  |  | 09/ 2012 |
| ITU-T | J.382 (03/2018) | Advanced digital downstream transmission systems for television, sound and data services for cable distribution |  |  | X |  |  |  |  |  |  |  | X |  |  | 03/2018 |
| ITU-T | J.1106 (07/2017) | Requirement for radio over IP transmission system |  |  | X |  |  |  |  |  |  |  | X |  |  | 07/2017 |
| ITU-T | J.1107 (03/2018) | Architecture and specification for radio over IP transmission systems |  |  | X |  |  |  |  |  |  |  | X |  |  | 03/2018 |
| ITU-T | J.1108 (01/2019) | Transmission specification for radio over IP transmission systems |  |  | X |  |  |  |  |  |  |  | X |  |  | 01/2019 |
| ITU-T | J.1109 (01/2019) | Requirement for in-band full-duplex in a HFC based network |  |  | X |  |  |  |  |  |  |  | X |  |  | 01/2019 |
| ITU-T | J Suppl. 1 (11/1998) | Example of linking options between annexes of ITU-T Recommendation J.112 and annexes of ITU-T Recommendation J.83 |  |  | X |  |  |  |  |  |  |  | X |  |  | 11/1998 |
| ITU-T | J Suppl. 2 (11/1998) | Guidelines for the implementation of annex A of Recommendation J.112, "Transmission systems for interactive cable television services" – Example of digital video broadcasting (DVB) interaction channel for cable television distribution |  |  | X |  |  |  |  |  |  |  | X |  |  | 11/1998 |
| ITU-T | J Suppl. 3 (11/1998) | Guidelines for the implementation of Recommendation J.111 "Network independent protocols" – Example of digital video broadcasting (DVB) systems for interactive services | X |  | X |  |  |  |  |  |  |  | X |  |  | 11/1998 |
| ITU-T | J Suppl. 5 (09/1999) | Guidelines on the use of some ITU-T Recommendations in the J series | X |  | X |  |  |  |  |  |  |  | X |  |  | 09/1999 |
| ITU-T | J Suppl.docsis | Correspondence between CableLabs DOCSIS specifications and ITU-T J-series Recommendations |  |  | X |  |  |  |  |  |  |  | X |  |  | 04/2020 |
| ITU‑T | Y.100 (06/1998) | General overview of the Global Information  Infrastructure standards development | X |  |  |  |  |  |  |  |  |  |  |  |  | 06/1998 |

**Table 2 – “Contacts” of the ANT Standards Work Plan**

| **Body** | **Contact person** | **Link to the Web-Site** | **Status of contact**  **Notes Liaison Tracking** |
| --- | --- | --- | --- |
| **ITU-T SG9** | **Satoshi Miyaji Chairman SG 9**  **KDDI Corporation, Japan**  [**sa-miyaji@kddi.com**](mailto:sa-miyaji@kddi.com)  Kei Kawamura  **Rapporteur for Q1/9**  **KDDI Corporation**  **[ki-kawamura @kddi.com](mailto:tm-shimizu@kddi.com)** | [**http://www.itu.int/en/ITU-T/studygroups/2017-2020/09/Pages/default.aspx**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/09/Pages/default.aspx) |  |

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