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| ITU official logo_blue_RGB | International Telecommunication Union  *Telecommunication Standardization Bureau* |  |

Geneva, 1 November 2021

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| Ref:  Tel:  Fax:  E-mail: | **TSB AAP-115**  AAP/CL  +41 22 730 5860  +41 22 730 5853  [tsbdir@itu.int](mailto:tsbdir@itu.int) | – To Administrations of Member States of the Union;  – To ITU-T Sector Members;  – To ITU-T Associates;  – To ITU Academia  **Copy:**  – To the ITU-T Study Group Chairmen and Vice-Chairmen;  – To the Director of the Telecommunication Development Bureau;  – To the Director of the Radiocommunication Bureau |

|  |  |
| --- | --- |
| Subject: | **Situation concerning Recommendations under the Alternative Approval Process (AAP)** |

Dear Sir/Madam,

The Alternative Approval Process (AAP) defined in Recommendation ITU-T A.8 applies to Recommendations that do not have policy or regulatory implications and which, therefore, do not require formal consultation of Member States (see ITU Convention 246B).

**Annex 1** lists those texts whose status has changed compared with previous TSB AAP Announcements.

Any member wishing to submit a comment relative to a Recommendation under AAP is encouraged to use the on-line AAP comment submission form available on the page of the Recommendation via [https://www.itu.int/ITU-T/aap](https://www.itu.int/ITU-T/aap/) (see **Annex 2**). Alternatively, comments may be submitted by completing the form in **Annex 3** and sending it to the secretariat of the concerned study group.

Please note that comments that simply support adoption of the text in question are not encouraged.

Yours faithfully,

Chaesub Lee  
Director of the Telecommunication Standardization Bureau

**Annexes:** 3

Annex 1

(to TSB AAP-115)

Status codes used in the AAP announcements:

LC = Last Call

LJ = Last Call Judgment (includes comment resolution)

AR = Additional Review

AJ = Additional Review Judgment (includes comment resolution)

SG = For Study Group approval

A = Approved

AT = Approved with typographic corrections

AC = Approved after Additional Review of Comments

NA = Not approved

TAP = Moved to TAP (ITU-T A.8 / § 5.2)

ITU-T website entry page:

[https://www.itu.int/ITU-T](https://www.itu.int/ITU-T/)

Alternative approval process (AAP) welcome page:

[https://www.itu.int/ITU-T/aapinfo](https://www.itu.int/ITU-T/aapinfo/)

Note – A tutorial on the ITU-T AAP application is available under the AAP welcome page

ITU-T website AAP Recommendation search page:

<https://www.itu.int/ITU-T/aap/>

Study Group web pages and contacts:

|  |  |  |
| --- | --- | --- |
| SG 2 | <https://www.itu.int/ITU-T/studygroups/com02> | [tsbsg2@itu.int](mailto:tsbsg2@itu.int) |
| SG 3 | <https://www.itu.int/ITU-T/studygroups/com03> | [tsbsg3@itu.int](mailto:tsbsg3@itu.int) |
| SG 5 | <https://www.itu.int/ITU-T/studygroups/com05> | [tsbsg5@itu.int](mailto:tsbsg5@itu.int) |
| SG 9 | <https://www.itu.int/ITU-T/studygroups/com09> | [tsbsg9@itu.int](mailto:tsbsg9@itu.int) |
| SG 11 | <https://www.itu.int/ITU-T/studygroups/com11> | [tsbsg11@itu.int](mailto:tsbsg11@itu.int) |
| SG 12 | <https://www.itu.int/ITU-T/studygroups/com12> | [tsbsg12@itu.int](mailto:tsbsg12@itu.int) |
| SG 13 | <https://www.itu.int/ITU-T/studygroups/com13> | [tsbsg13@itu.int](mailto:tsbsg13@itu.int) |
| SG 15 | <https://www.itu.int/ITU-T/studygroups/com15> | [tsbsg15@itu.int](mailto:tsbsg15@itu.int) |
| SG 16 | <https://www.itu.int/ITU-T/studygroups/com16> | [tsbsg16@itu.int](mailto:tsbsg16@itu.int) |
| SG 17 | <https://www.itu.int/ITU-T/studygroups/com17> | [tsbsg17@itu.int](mailto:tsbsg17@itu.int) |
| SG 20 | <https://www.itu.int/ITU-T/studygroups/com20> | [tsbsg20@itu.int](mailto:tsbsg20@itu.int) |

Situation concerning Study Group 5 Recommendations under AAP

| **Rec #** | **Title** | **Last Call (LC) Period** | | | | **Additional Review (AR) Period** | | | | Status |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **LC Start** | **LC End** | **LC Result** | **LJ Result** | **AR Start** | **AR End** | **AR Result** | **AJ Result** |
| [L.1033 (L.HL\_e-waste)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=10036) | Guidance for institutions of higher learning to contribute in the effective life cycle management of e-equipment and e-waste ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020027340801MSWE.docx&group=5)) | 2021-06-16 | 2021-07-13 | LJ | AR | 2021-10-01 | 2021-10-21 | AC |  | AC |
| [L.1317 (L.gee\_bs)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=10031) | Guidelines on energy efficient blockchain systems ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200272F0802MSWE.docx&group=5)) | 2021-06-16 | 2021-07-13 | LJ | AR | 2021-11-01 | 2021-11-21 |  |  | AR |

Situation concerning Study Group 12 Recommendations under AAP

| **Rec #** | **Title** | **Last Call (LC) Period** | | | | **Additional Review (AR) Period** | | | | Status |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **LC Start** | **LC End** | **LC Result** | **LJ Result** | **AR Start** | **AR End** | **AR Result** | **AJ Result** |
| [G.1027 (G.ODP)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=10103) | QoS metrics for the assessment of the impact of fixed geographic structures on telephony quality and call stability ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020027770801MSWE.docx&group=12)) | 2021-11-01 | 2021-11-28 |  |  |  |  |  |  | LC |
| [G.1035](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=10104) | Influencing factors on quality of experience for virtual reality services ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020027780801MSWE.docx&group=12)) | 2021-11-01 | 2021-11-28 |  |  |  |  |  |  | LC |
| [P.565](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=10100) | Framework for creation and performance testing of machine learning based models for the assessment of transmission network impact on speech quality for mobile packet-switched voice services ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020027740801MSWE.docx&group=12)) | 2021-11-01 | 2021-11-28 |  |  |  |  |  |  | LC |
| [P.565.1 (P.VSQMTF-1)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=10101) | Machine learning model for the assessment of transmission network impact on speech quality for mobile packet-switched voice services ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020027750801MSWE.docx&group=12)) | 2021-11-01 | 2021-11-28 |  |  |  |  |  |  | LC |
| [P.910](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=10102) | Subjective video quality assessment methods for multimedia applications ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020027760801MSWE.docx&group=12)) | 2021-11-01 | 2021-11-28 |  |  |  |  |  |  | LC |

Situation concerning Study Group 13 Recommendations under AAP

| **Rec #** | **Title** | **Last Call (LC) Period** | | | | **Additional Review (AR) Period** | | | | Status |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **LC Start** | **LC End** | **LC Result** | **LJ Result** | **AR Start** | **AR End** | **AR Result** | **AJ Result** |
| [Y.3057 (Y.trust-index)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=10058) | A trust index model for ICT infrastructures and services ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200274A0801MSWE.docx&group=13)) | 2021-08-16 | 2021-09-12 | LJ | SG |  |  |  |  | SG |

Situation concerning Study Group 16 Recommendations under AAP

| **Rec #** | **Title** | **Last Call (LC) Period** | | | | **Additional Review (AR) Period** | | | | Status |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **LC Start** | **LC End** | **LC Result** | **LJ Result** | **AR Start** | **AR End** | **AR Result** | **AJ Result** |
| [F.749.5 (H.VDS-UC)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=10086) | Vehicle domain service: General information and use case definitions ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020027660801MSWE.docx&group=16)) | 2021-10-01 | 2021-10-28 | A |  |  |  |  |  | A |

Situation concerning Study Group 17 Recommendations under AAP

| **Rec #** | **Title** | **Last Call (LC) Period** | | | | **Additional Review (AR) Period** | | | | Status |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **LC Start** | **LC End** | **LC Result** | **LJ Result** | **AR Start** | **AR End** | **AR Result** | **AJ Result** |
| [X.1011 (X.rf-csap)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=10088) | Guidlines for continuous protection of service access process ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020027680801MSWE.docx&group=17)) | 2021-10-01 | 2021-10-28 | A |  |  |  |  |  | A |
| [X.1047 (X.nsom-sec)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=10087) | Security requirements and architecture for network slice management and orchestration ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020027670801MSWE.docx&group=17)) | 2021-10-01 | 2021-10-28 | A |  |  |  |  |  | A |
| [X.1080.2 (X.b2m)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=10082) | Biology-to-Machine (B2M) protocol ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020027620801MSWE.docx&group=17)) | 2021-10-01 | 2021-10-28 | A |  |  |  |  |  | A |
| [X.1408 (X.das-mgt)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=10083) | Security threats and requirements for data access and sharing based on the distributed ledger technology ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020027630801MSWE.docx&group=17)) | 2021-10-01 | 2021-10-28 | A |  |  |  |  |  | A |
| [X.1712 (X.sec-QKDN-km)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=10084) | Security requirements and measures for QKD networks - key management ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020027640801MSWE.docx&group=17)) | 2021-10-01 | 2021-10-28 | A |  |  |  |  |  | A |
| [X.1770 (X.tf-mpc)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=10085) | Technical Guidelines for Secure Multi-party Computation ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020027650801MSWE.docx&group=17)) | 2021-10-01 | 2021-10-28 | A |  |  |  |  |  | A |

Situation concerning Study Group 20 Recommendations under AAP

| **Rec #** | **Title** | **Last Call (LC) Period** | | | | **Additional Review (AR) Period** | | | | Status |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **LC Start** | **LC End** | **LC Result** | **LJ Result** | **AR Start** | **AR End** | **AR Result** | **AJ Result** |
| [Y.4004 (Y.smart-oceans)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=10090) | Overview of smart oceans and seas, and requirements for their ICT implementations ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200276A0801MSWE.docx&group=20)) | 2021-11-01 | 2021-11-28 |  |  |  |  |  |  | LC |
| [Y.4123 (Y.SmartShoppingMall)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=10091) | Requirements and capability framework of smart shopping mall ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200276B0801MSWE.docx&group=20)) | 2021-11-01 | 2021-11-28 |  |  |  |  |  |  | LC |
| [Y.4212 (Y.IoT-NCM-reqts)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=10092) | Requirements and capabilities of network connectivity management in the Internet of things ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200276C0801MSWE.docx&group=20)) | 2021-11-01 | 2021-11-28 |  |  |  |  |  |  | LC |
| [Y.4213 (Y.AM-SC-reqts)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=10093) | IoT requirements and capability framework for monitoring physical city assets ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200276D0801MSWE.docx&group=20)) | 2021-11-01 | 2021-11-28 |  |  |  |  |  |  | LC |
| [Y.4477 (Y.IoT-sd-arch)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=10094) | Framework of service interworking with device discovery and management in heterogeneous Internet of things environments ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200276E0801MSWE.docx&group=20)) | 2021-11-01 | 2021-11-28 |  |  |  |  |  |  | LC |
| [Y.4478 (Y.IoT-SCS)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=10095) | Requirements and functional architecture for smart construction site services ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200276F0801MSWE.docx&group=20)) | 2021-11-01 | 2021-11-28 |  |  |  |  |  |  | LC |
| [Y.4480 (Y.lorawan)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=10096) | Low power protocol for wide area wireless networks ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020027700801MSWE.docx&group=20)) | 2021-11-01 | 2021-11-28 |  |  |  |  |  |  | LC |
| [Y.4563 (Y.DPM-interop)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=10097) | Requirements and functional model to support data interoperability in IoT environments ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020027710801MSWE.docx&group=20)) | 2021-11-01 | 2021-11-28 |  |  |  |  |  |  | LC |
| [Y.4810 (Y.Data.Sec.IoT-Dev)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=10098) | Requirements of data security for the heterogeneous IoT devices ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020027720801MSWE.docx&group=20)) | 2021-11-01 | 2021-11-28 |  |  |  |  |  |  | LC |
| [Y.4811 (Y.IoT-CSIADE-fw)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=10099) | Reference framework of converged service for identification and authentication for IoT devices in decentralized environment ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020027730801MSWE.docx&group=20)) | 2021-11-01 | 2021-11-28 |  |  |  |  |  |  | LC |

Annex 2

(to TSB AAP-115)

Using the on-line comment submission form

Comment submission

1) Go to AAP search Web page at <https://www.itu.int/ITU-T/aap/>



2) Select your Recommendation



3) Click the "Submit Comment" button



4) Complete the on-line form and click on "Submit"



For more information, read the AAP tutorial on:   
<https://www.itu.int/ITU-T/aapinfo/files/AAPTutorial.pdf>

Annex 3

(to TSB AAP-115)

Recommendations under LC/AR – Comment submission form

*(Separate form for each Recommendation being commented upon)*

|  |  |
| --- | --- |
| ITU-T AAP comment submission form | |
| **Study Group:** |  |
| **Announcement number:** |  |
| **Recommendation number:** |  |
| **Date consented:** |  |
| **Recommendation under:** | Last call (LC)   Additional Review (AR) |
| **Country:** |  |
| **Administration/Company:** |  |
| **Name of AAP Contact Person:** |  |
| **Email of AAP Contact Person:** |  |
| **Sender name: (if different from AAP Contact Person)** |  |
| **Sender email address:** |  |
| **Telephone:** |  |
| **Comments: (Choose as applicable)** | We do not support this text. Reasons are given in the attachment.   We support this text on the condition that it be modified as per revision shown in the attachment. |
| **Observations:** |  |

**No attachment:** Comments are given in the Observation field, no attachment needed

*To be returned to: email:* [*tsbsg....@itu.int*](mailto:tsbsg....@itu.int) *[or fax +41 22 730 5853]  
Comments or revised text should be sent as an attachment in RTF or WinWord format.  
Revision marks must be shown relative to the text posted by TSB.*