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| ITU official logo_blue_RGB | Международный союз электросвязи  *Бюро стандартизации электросвязи* |  |

Женева, 1 ноября 2021

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| --- | --- | --- |
| Осн.:  Тел.:  Факс:  Эл. почта: | **TSB AAP-115**  AAP/CL  +41 22 730 5860  +41 22 730 5853  [tsbdir@itu.int](mailto:tsbdir@itu.int) | – Администрациям Государств – Членов Союза;  – Членам Сектора МСЭ-Т;  – Ассоциированным членам МСЭ-Т;  – Академическим организациям − Членам МСЭ  **Копии:**  – Председателям и заместителям председателей Исследовательских комиссий МСЭ-Т;  – Директору Бюро Развития Электросвязи;  – Директору Бюро Радиосвязи |

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| Предмет: | **Положение относительно Рекомендаций, рассматриваемых в соответствии с альтернативным процессом утверждения (АПУ)** |

Уважаемая госпожа,  
уважаемый господин,

Альтернативный процесс утверждения (АПУ), определенный в Рекомендации МСЭ-Т А.8, распространяется на Рекомендации, которые не имеют политических или регламентарных последствий и которые поэтому не требуют официальных консультаций с Государствами-Членами (см. п. 246B Конвенции МСЭ).

В **Приложении 1** содержится перечень текстов, статус которых изменился по сравнению с предыдущими объявлениями об АПУ БСЭ.

Если вы желаете представить замечания относительно какой-либо Рекомендации, рассматриваемой в соответствии с АПУ, рекомендуем Вам использовать онлайновую форму для представления замечаний по АПУ, которая размещена на странице этой Рекомендации в разделе веб-сайта МСЭ-Т, посвященном АПУ, по адресу: [http://www.itu.int/ITU-T/aap/](https://www.itu.int/ITU-T/aap/) (см. **Приложение 2**). Замечания можно представить иным способом, заполнив приведенную в **Приложении 3** форму и направив ее в секретариат заинтересованной исследовательской комиссии.

Просим принять к сведению, что не рекомендуется представлять замечания, являющиеся не чем иным, как поддержкой рассматриваемого текста.

С уважением,

Чхе Суб Ли  
Директор Бюро стандартизации электросвязи

**Приложения**: 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.*