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| ITU official logo_blue_RGB | Unión Internacional de Telecomunicaciones  *Oficina de Normalización de las Telecomunicaciones* |  |

Ginebra, 16 de diciembre de 2019

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| --- | --- | --- |
| Ref:  Tel:  Fax:  Correo-e: | **TSB AAP-72**  AAP/CL  +41 22 730 5860  +41 22 730 5853  [tsbdir@itu.int](mailto:tsbdir@itu.int) | – A las Administraciones de los Estados Miembros de la Unión;  – A los Miembros del Sector UIT‑T;  – A los Asociados del UIT‑T;  – A las Instituciones Académicas de la UIT  **Copia**:  – A los Presidentes y a los Vicepresidentes de las Comisiones de Estudio del UIT‑T;  – Al Director de la Oficina de Desarrollo de las Telecomunicaciones;  – Al Director de la Oficina de Radiocomunicaciones |

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| --- | --- |
| Asunto: | **Situación de las Recomendaciones sometidas al proceso de aprobación alternativo (AAP)** |

Muy señora mía/Muy señor mío:

El proceso de aprobación alternativo (AAP) definido en la Recomendación A.8 del UIT-T se aplica a las Recomendaciones que no tienen consecuencias en materia de política o reglamentación y que no requieren, por lo tanto, la consulta formal de los Estados Miembros (véase el número 246B del Convenio de la UIT).

En el **anexo 1** se enumera la lista de los textos cuyo estado ha cambiado con respecto a los anuncios TSB AAP precedentes.

Si desea formular un comentario en relación con una Recomendación sometida al AAP, le alentamos a utilizar el formulario de presentación de comentarios disponible en la página de la Recomendación que figura en el área AAP del sitio web del UIT-T, en la dirección <https://www.itu.int/ITU-T/aap/> (véase también el **anexo 2**). Alternativamente, pueden presentarse comentarios completando el formulario del **anexo 3** y remitiéndolo a la secretaría de la Comisión de Estudio correspondiente.

Le rogamos tenga en cuenta que no se alientan comentarios que se limiten a apoyar la adopción del texto en cuestión.

No se realizarán anuncios de AAP el 1 de enero de 2020 por cierre anual de la UIT. En consecuencia, se ha ampliado el plazo para la presentación de comentarios para algunos textos sujetos al proceso AAP.

Le saluda atentamente,

Chaesub Lee  
Director de la Oficina de   
Normalización de las Telecomunicaciones

**Anexos:** 3

Annex 1

(to TSB AAP-72)

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.1470 (L.Trajectories)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8574) | GHG emissions trajectories for the ICT sector compatible with the UNFCCC Paris Agreement ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200217E0801MSWE.docx&group=5)) | 2019-10-16 | 2019-11-12 | LJ | AR | 2019-12-16 | 2020-01-11 |  |  | 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** |
| [E.475 (E.FINAD)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8648) | Guidelines for Intelligent Network Analytics and Diagnostics ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021C80801MSWE.docx&group=12)) | 2019-12-16 | 2020-01-12 |  |  |  |  |  |  | LC |
| [G.107.1 (2019) Cor.1](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8646) | Wideband E-model - Corrigendum 1 ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021C60801MSWE.docx&group=12)) | 2019-12-16 | 2020-01-12 |  |  |  |  |  |  | LC |
| [G.1034 (G.RTM)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8650) | QoE metrics for mobile telephony communication during rail travel ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021CA0801MSWE.docx&group=12)) | 2019-12-16 | 2020-01-12 |  |  |  |  |  |  | LC |
| [G.1072 (G.OMG)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8651) | Opinion Model Predicting Gaming QoE for Cloud Gaming Services ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021CB0801MSWE.docx&group=12)) | 2019-12-16 | 2020-01-12 |  |  |  |  |  |  | LC |
| [P.565 (P.VSQMTF)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8647) | 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=T01020021C70801MSWE.docx&group=12)) | 2019-12-16 | 2020-01-12 |  |  |  |  |  |  | LC |
| [P.918 (P.VQD)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8640) | Dimension-based Subjective Quality Evaluation for Video Content ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021C00801MSWE.docx&group=12)) | 2019-12-16 | 2020-01-12 |  |  |  |  |  |  | LC |
| [P.1150 (P.ICC)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8639) | In-Car Communication Audio Specification ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021BF0801MSWE.docx&group=12)) | 2019-12-16 | 2020-01-12 |  |  |  |  |  |  | LC |
| [P.1204 (P.NATS-ph2)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8642) | Video quality assessment of streaming services over reliable transport for resolutions up to 4K ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021C20801MSWE.docx&group=12)) | 2019-12-16 | 2020-01-12 |  |  |  |  |  |  | LC |
| [P.1204.3 (P.NATS-ph2)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8643) | Video quality assessment of streaming services over reliable transport for resolutions up to 4K with access to full bitstream information ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021C30801MSWE.docx&group=12)) | 2019-12-16 | 2020-01-12 |  |  |  |  |  |  | LC |
| [P.1204.4 (P.NATS-ph2)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8644) | Video quality assessment of streaming services over reliable transport for resolutions up to 4K with access to full and reduced reference pixel information ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021C40801MSWE.docx&group=12)) | 2019-12-16 | 2020-01-12 |  |  |  |  |  |  | LC |
| [P.1204.5 (P.NATS-ph2)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8645) | Video quality assessment of streaming services over reliable transport for resolutions up to 4K with access to transport and received pixel information ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021C50801MSWE.docx&group=12)) | 2019-12-16 | 2020-01-12 |  |  |  |  |  |  | LC |
| [P.1401](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8641) | Methods, metrics and procedures for statistical evaluation, qualification and comparison of objective quality prediction models ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021C10801MSWE.docx&group=12)) | 2019-12-16 | 2020-01-12 |  |  |  |  |  |  | LC |
| [P.1502 (P.DFSm)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8649) | Methodology for QoE testing of digital financial services ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021C90801MSWE.docx&group=12)) | 2019-12-16 | 2020-01-12 |  |  |  |  |  |  | LC |
| [Y.1540](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8439) | Internet protocol data communication service - IP packet transfer and availability performance parameters ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020020F70801MSWE.docx&group=12)) | 2019-06-01 | 2019-06-28 | LJ | AR | 2019-09-16 | 2019-10-06 | AJ | SG | AC |
| [Y.1540 Amd.1](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8652) | Internet protocol data communication service - IP packet transfer and availability performance parameters - Amendment 1 ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021CC0801MSWE.docx&group=12)) | 2019-12-16 | 2020-01-12 |  |  |  |  |  |  | LC |

Situation concerning Study Group 15 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.798 (2017) Amd.2](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8503) | Characteristics of optical transport network hierarchy equipment functional blocks - Amendment 2 ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021370801MSWE.docx&group=15)) | 2019-08-01 | 2019-08-28 | LJ | AR | 2019-11-16 | 2019-12-06 | AC |  | AC |
| [G.9804.1 (G.hsp.req)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8488) | Higher Speed Passive Optical Networks: Requirements ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021280801MSWE.docx&group=15)) | 2019-08-01 | 2019-08-28 | LJ | AR | 2019-11-01 | 2019-11-21 | AJ | AC | AC |

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.4208 (Y.IoT-EC-reqts)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8628) | IoT requirements for support of edge computing ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021B40801MSWE.docx&group=20)) | 2019-12-16 | 2020-01-12 |  |  |  |  |  |  | LC |
| [Y.4209 (Y.smartport)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8629) | Requirements for interoperation of the smart port with the smart city ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021B50801MSWE.docx&group=20)) | 2019-12-16 | 2020-01-12 |  |  |  |  |  |  | LC |
| [Y.4459 (Y.IoT-Interop)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8380) | Digital entity architecture framework for IoT interoperability ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020020BC0801MSWE.docx&group=20)) | 2019-01-16 | 2019-02-12 | LJ | AR | 2019-12-16 | 2020-01-11 |  |  | AR |
| [Y.4461 (Y.SC-OpenData)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8627) | Framework of open data in smart cities ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021B30801MSWE.docx&group=20)) | 2019-12-16 | 2020-01-12 |  |  |  |  |  |  | LC |
| [Y.4462 (Y.IoT-ics)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8630) | Requirements and functional architecture of open IoT identity correlation service ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021B60801MSWE.docx&group=20)) | 2019-12-16 | 2020-01-12 |  |  |  |  |  |  | LC |
| [Y.4463 (Y.del-fw)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8633) | Framework of delegation service for IoT devices ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021B90801MSWE.docx&group=20)) | 2019-12-16 | 2020-01-12 |  |  |  |  |  |  | LC |
| [Y.4464 (Y.IoT-BoT-fw)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8634) | Framework of blockchain of things as decentralized service platform ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021BA0802MSWE.docx&group=20)) | 2019-12-16 | 2020-01-12 |  |  |  |  |  |  | LC |
| [Y.4465 (Y.IoT-VLC)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8635) | Framework of IoT Services based on Visible Light Communications ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021BB0801MSWE.docx&group=20)) | 2019-12-16 | 2020-01-12 |  |  |  |  |  |  | LC |
| [Y.4466 (Y.ISG-fr)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8636) | Framework of smart greenhouse service ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021BC0801MSWE.docx&group=20)) | 2019-12-16 | 2020-01-12 |  |  |  |  |  |  | LC |
| [Y.4467 (Y.AERS-msd)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8631) | Minimum set of data structure for automotive emergency response system ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021B70802MSWE.docx&group=20)) | 2019-12-16 | 2020-01-12 |  |  |  |  |  |  | LC |
| [Y.4468 (Y.AERS-mtp)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8632) | Minimum set of data transfer protocol for automotive emergency response system ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021B80802MSWE.docx&group=20)) | 2019-12-16 | 2020-01-12 |  |  |  |  |  |  | LC |
| [Y.4807 (Y.IoT-Agility)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8637) | Agility by design for Telecommunications/ICT Systems Security used in the Internet of Things ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021BD0802MSWE.docx&group=20)) | 2019-12-16 | 2020-01-12 |  |  |  |  |  |  | LC |
| [Y.4903 (Y.4903rev)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8638) | Key performance indicators for smart sustainable cities to assess the achievement of sustainable development goals ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020021BE0801MSWE.docx&group=20)) | 2019-12-16 | 2020-01-12 |  |  |  |  |  |  | LC |
| [Y.4904 (Y.SSC-MM)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8382) | Smart sustainable cities maturity model ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020020BE0801MSWE.docx&group=20)) | 2019-01-16 | 2019-02-12 | LJ | AR | 2019-05-16 | 2019-06-05 | SG |  | AC |

Annex 2

(to TSB AAP-72)

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-72)

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.*