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| itu_logo | Unión Internacional de Telecomunicaciones*Oficina de Normalización de las Telecomunicaciones* | ITU-T60_blue-small |

Ginebra, 16 de septiembre de 2016

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| --- | --- | --- |
| Ref:Tel:Fax:Correo-e: | **TSB AAP-88**AAP/CL+41 22 730 5860+41 22 730 5853tsbdir@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**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 <http://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.

Le saluda atentamente,

Chaesub Lee
Director de la Oficina de
Normalización de las Telecomunicaciones

**Anexos:** 3

Annex 1

(to TSB AAP-88)

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:

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

Alternative approval process (AAP) welcome page:

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

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

Study Group web pages and contacts:

|  |  |  |
| --- | --- | --- |
| SG 2 | <http://www.itu.int/ITU-T/studygroups/com02> | tsbsg2@itu.int |
| SG 3 | <http://www.itu.int/ITU-T/studygroups/com03> | tsbsg3@itu.int |
| SG 5 | <http://www.itu.int/ITU-T/studygroups/com05> | tsbsg5@itu.int |
| SG 9 | <http://www.itu.int/ITU-T/studygroups/com09> | tsbsg9@itu.int |
| SG 11 | <http://www.itu.int/ITU-T/studygroups/com11> | tsbsg11@itu.int |
| SG 12 | <http://www.itu.int/ITU-T/studygroups/com12> | tsbsg12@itu.int |
| SG 13 | <http://www.itu.int/ITU-T/studygroups/com13> | tsbsg13@itu.int |
| SG 15 | <http://www.itu.int/ITU-T/studygroups/com15> | tsbsg15@itu.int |
| SG 16 | <http://www.itu.int/ITU-T/studygroups/com16> | tsbsg16@itu.int |
| SG 17 | <http://www.itu.int/ITU-T/studygroups/com17> | tsbsg17@itu.int |
| SG 20 | <http://www.itu.int/ITU-T/studygroups/com20> | 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** | **LCResult** | **LJResult** | **AR Start** | **AR End** | **ARResult** | **AJResult** |
| [L.1002 (L.UPA portable)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=3409) | External universal power adapter solutions for portable information and communication technology devices ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T0102000D510801MSWE.docx&group=5)) | 2016-04-16 | 2016-05-13 | LJ | AR | 2016-08-16 | 2016-09-05 | SG |  | SG |
| [L.1350 (L.RBS assessment)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=4546) | Energy efficiency metric of base station site ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020011C20801MSWE.docx&group=5)) | 2016-06-01 | 2016-06-28 | LJ | AR | 2016-09-16 | 2016-10-06 |  |  | AR |
| [L.1603 (L.KPIs-SSC-SDGs (L.KPI for SSC to reach )](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=4547) | 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=T01020011C30801MSWE.doc&group=5)) | 2016-08-01 | 2016-08-28 | LJ | AR | 2016-09-16 | 2016-10-06 |  |  | AR |

Situation concerning Study Group 9 Recommendations under AAP

| **Rec #** | **Title** | **Last Call (LC) Period** | **Additional Review (AR) Period** | Status |
| --- | --- | --- | --- | --- |
| **LC Start** | **LC End** | **LCResult** | **LJResult** | **AR Start** | **AR End** | **ARResult** | **AJResult** |
| [J.94](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5707) | Service information for digital broadcasting in cable television systems ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200164B0801MSWE.docx&group=9)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [J.196.2 (HiNoC2-phy)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5710) | Physical layer specification of second generation HiNoC ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200164E0801MSWE.docx&group=9)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [J.196.3 (J.HiNoC2-mac)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5711) | Media Access Control (MAC) layer specification of second generation HiNoC ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200164F0801MSWE.docx&group=9)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [J.223.2 (J.C-DOCSIS-spec)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5712) | Cabinet DOCSIS (C-DOCSIS) System Specification ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020016500804MSWE.docx&group=9)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [J.230](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5709) | Requirements for platform functionalities on the integration of cable STB and companion devices including mobile second screen devices ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200164D0801MSWE.docx&group=9)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [J.297 (J.4kstb)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5706) | Requirements and functional specification of cable set top box for 4K ultra high definition television ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200164A0801MSWE.doc&group=9)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [J.302 (J.arstv-spec)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5715) | System Specifications of Augmented Reality Smart Television Service ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020016530801MSWE.docx&group=9)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [J.1006 (J.ipvdrm)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5708) | Specification of IP-VOD DRM for cable television multiscreen system in Multi-DRM environment ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200164C0805MSWE.doc&group=9)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [J.1104 (J.vodoc-cont)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5714) | Control specification for IP-based switched digital video using Data Over Cable Service Interface Specifications ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020016520801MSWE.doc&group=9)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [J.1105 (J.chswt-req)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5713) | Requirement of channel switching service over Hybrid Fiber and Coaxial based network ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020016510801MSWE.doc&group=9)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |

Situation concerning Study Group 16 Recommendations under AAP

| **Rec #** | **Title** | **Last Call (LC) Period** | **Additional Review (AR) Period** | Status |
| --- | --- | --- | --- | --- |
| **LC Start** | **LC End** | **LCResult** | **LJResult** | **AR Start** | **AR End** | **ARResult** | **AJResult** |
| [H.264 (V11)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=4580) | Advanced video coding for generic audiovisual services ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020011E40801MSWE.doc&group=16)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |

Situation concerning Study Group 17 Recommendations under AAP

| **Rec #** | **Title** | **Last Call (LC) Period** | **Additional Review (AR) Period** | Status |
| --- | --- | --- | --- | --- |
| **LC Start** | **LC End** | **LCResult** | **LJResult** | **AR Start** | **AR End** | **ARResult** | **AJResult** |
| [X.500 (X.500 (eighth edition))](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=4686) | Information technology - Open Systems Interconnection - The Directory: Overview of concepts, models and services ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200124E0801MSWE.docx&group=17)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [X.501 (X.501 (eighth edition))](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=4687) | Information technology - Open Systems Interconnection - The Directory: Models ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200124F0801MSWE.docx&group=17)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [X.509 (2012) Cor.3 (X.509 (2012) Cor.3)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=4688) | Information technology - Open Systems Interconnection - The Directory: Public-key and attribute certificate frameworks - Technical Corrigendum 3 ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020012500801MSWE.docx&group=17)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [X.509 (X.509 (eighth edition))](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5686) | Information technology - Open Systems Interconnection - The Directory: Public-key and attribute certificate frameworks ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020016360801MSWE.docx&group=17)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [X.511 (X.511 (eighth edition))](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5687) | Information technology - Open Systems Interconnection - The Directory: Abstract service definition ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020016370801MSWE.docx&group=17)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [X.518 (X.518 (eighth edition))](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5688) | Information technology - Open Systems Interconnection - The Directory: Procedures for distributed operation ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020016380801MSWE.docx&group=17)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [X.519 (X.519 (eighth edition))](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5689) | Information technology - Open Systems Interconnection - The Directory: Protocols specifications ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020016390801MSWE.docx&group=17)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [X.520 (X.520 (eighth edition))](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5690) | Information technology - Open Systems Interconnection - The Directory: Selected attribute types ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200163A0801MSWE.docx&group=17)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [X.521 (X.521 (eighth edition))](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5691) | Information technology - Open Systems Interconnection - The Directory: Selected object classes ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200163B0801MSWE.docx&group=17)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [X.525 (X.525 (eighth edition))](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5692) | Information technology - Open Systems Interconnection - The Directory: Replication ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200163C0801MSWE.docx&group=17)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [X.691 (2015) Cor.1 (X.691 (2015) Cor.1)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5693) | Information technology - Specification of Packed Encoding Rules (PER) - Technical Corrigendum 1 ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200163D0801MSWE.docx&group=17)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [X.894 (X.cms)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=3530) | Information technology - Generic applications of ASN.1 - Cryptographic Message Syntax - Generic applications of ASN.1 - Cryptographic Message Syntax ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T0102000DCA0801MSWE.doc&group=17)) | 2016-04-01 | 2016-04-28 | LJ | SG |  |  |  |  | SG |
| [X.1038 (X.sdnsec-2)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5699) | Security requirements and reference architecture for software-defined networking ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020016430801MSWE.docx&group=17)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [X.1039 (X.1039 (X.tigsc))](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5700) | Technical security measures for implementation of ITU-T X.805 security dimensions ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020016440801MSWE.docx&group=17)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [X.1085 (X.bhsm)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5701) | Information technology - Security techniques - Telebiometric authentication framework using biometric hardware security module ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020016450801MSWE.docx&group=17)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [X.1087 (X.tam)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5702) | Technical and operational countermeasures for telebiometric applications using mobile devices ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020016460801MSWE.docx&group=17)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [Z.109 (Z.109)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5698) | Specification and Description Language - Unified modeling language profile for SDL-2010 ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020016420801MSWE.docx&group=17)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [Z.161 (Z.161 (2016))](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5694) | Testing and Test Control Notation version 3: TTCN-3 core language ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200163E0801MSWE.docx&group=17)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [Z.164 (Z.164 (2016))](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5695) | Testing and Test Control Notation version 3: TTCN-3 operational semantics ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200163F0801MSWE.docx&group=17)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [Z.166 (Z.166 (2016))](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5696) | Testing and Test Control Notation version 3: TTCN-3 control interface (TCI) ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020016400801MSWE.docx&group=17)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |
| [Z.169 (Z.169 (2016))](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=5697) | Testing and Test Control Notation version 3: Using XML schema with TTCN-3 ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020016410801MSWE.docx&group=17)) | 2016-09-16 | 2016-10-13 |  |  |  |  |  |  | LC |

Situation concerning Study Group 20 Recommendations under AAP

| **Rec #** | **Title** | **Last Call (LC) Period** | **Additional Review (AR) Period** | Status |
| --- | --- | --- | --- | --- |
| **LC Start** | **LC End** | **LCResult** | **LJResult** | **AR Start** | **AR End** | **ARResult** | **AJResult** |
| [Y.4113 (Y.IoT-network-reqts)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=4683) | Requirements of the network for the Internet of Things ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200124B0801MSWE.docx&group=20)) | 2016-08-16 | 2016-09-12 | A  |  |  |  |  |  | A  |
| [Y.4451 (Y.IoT-cdn)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=4684) | Framework of constrained device networking in the IoT environments ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200124C0801MSWE.docx&group=20)) | 2016-08-16 | 2016-09-12 | A  |  |  |  |  |  | A  |
| [Y.4452 (Y.WoO-fw)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=4682) | Functional framework of Web of Objects ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200124A08150MSWE.docx&group=20)) | 2016-08-16 | 2016-09-12 | A  |  |  |  |  |  | A  |
| [Y.4453 (Y.IoT-ASF)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=4685) | Adaptive software framework for IoT devices ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200124D0801MSWE.docx&group=20)) | 2016-08-16 | 2016-09-12 | A  |  |  |  |  |  | A  |

Annex 2

(to TSB AAP-88)

Using the on-line comment submission form

Comment submission

1) Go to AAP search Web page at <http://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:
<http://www.itu.int/ITU-T/aapinfo/files/AAPTutorial.pdf>

Annex 3

(to TSB AAP-88)

Recommendations under LC/AR – Comment submission form

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

|  |
| --- |
| ITU-T AAP comment submission form for the period 2009-2012 |
| **Study Group:** |  |
| **Announcement number:** |  |
| **Recommendation number:** |  |
| **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* *[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.*