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| itu_logo | International Telecommunication Union*Telecommunication Standardization Bureau* | ITU-T60_blue-small |

Geneva, 16 September 2016

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| --- | --- | --- |
| Ref:Tel:Fax:E-mail: | **TSB AAP-88**AAP/CL+41 22 730 5860+41 22 730 5853tsbdir@itu.int | – To Administrations of Member States of the Union;– To ITU-T Sector Members;– To ITU-T Associates**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 Rec. ITU-T A.8 applies to Recommendations which 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.

If you wish to submit a comment relative to a Recommendation under AAP, you are encouraged to use the on-line AAP comment submission form available on the page of the Recommendation in the AAP area of the ITU-T website at [http://www.itu.int/ITU-T/aap](http://www.itu.int/ITU-T/aap/) (see **Annex 2**). Alternatively, comments can 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-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.*