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

Geneva, 1 September 2020

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| Ref:  Tel:  Fax:  E-mail: | **TSB AAP-88**  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-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:

[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.1023 (L.CE\_2)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8738) | Assessment method for Circular Scoring ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022220801MSWE.docx&group=5)) | 2020-06-01 | 2020-06-28 | LJ | AR | 2020-09-01 | 2020-09-21 |  |  | AR |
| [L.1310 (Revision of ITU-T L.1310)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8733) | Energy efficiency metrics and measurement methods for telecommunication equipment ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200221D0801MSWE.docx&group=5)) | 2020-06-01 | 2020-06-28 | LJ | AR | 2020-09-01 | 2020-09-21 |  |  | AR |
| [L.1331 (Revision of ITU-T L.1331)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8734) | Assessment of mobile network energy efficiency ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200221E0801MSWE.docx&group=5)) | 2020-06-01 | 2020-06-28 | LJ | AR | 2020-09-01 | 2020-09-21 |  |  | AR |

Situation concerning Study Group 11 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** |
| [Q.3058 (Q.NGNe-O-SA)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8807) | Signalling architecture of orchestration in NGNe ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022670801MSWE.docx&group=11)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Q.3059 (Q.SFD)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8810) | Signalling requirements for service function discovery ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200226A0801MSWE.docx&group=11)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Q.3060 (Q.ETN-DS)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8809) | Signalling architecture of the fast deployment emergency telecommunication network to be used in a natural disaster ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022690801MSWE.docx&group=11)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Q.3645 (Q.Pro-DES)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8808) | Protocol at interface between two distributed ENUM servers for IMS ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022680801MSWE.docx&group=11)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Q.3720 (Q.BNG-PAC)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8811) | Procedures for vBNG acceleration with programmable acceleration card ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200226B0801MSWE.docx&group=11)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Q.3915 (Q.BNGP)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8818) | Set of parameters of vBNG for monitoring ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022720801MSWE.docx&group=11)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Q.3961 (Q.PWS)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8819) | Parameters for evaluating bottleneck of web-browsing service ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022730801MSWE.docx&group=11)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Q.4062 (Q.FW\_IoT/Test)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8816) | Framework for IoT Testing ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022700801MSWE.docx&group=11)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Q.4063 (Q.39\_FW\_Test\_ID\_IoT)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8817) | The framework of testing of identification systems used in IoT ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022710801MSWE.docx&group=11)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Q.4064 (Q.vbng-iop-reqts)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8820) | Interoperability testing requirements of virtual Broadband Network Gateway ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022740801MSWE.docx&group=11)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Q.4066 (Q.TP\_AR)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8815) | Testing procedures of Augmented Reality applications ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200226F0801MSWE.docx&group=11)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Q.4100 (Q.HP2P-Arch)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8812) | Hybrid peer-to-peer (P2P) communications: Functional architecture ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200226C0801MSWE.docx&group=11)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Q.5052 (Q.DEV\_DUI)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8821) | Addressing mobile devices with duplicate unique identifier ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022750801MSWE.docx&group=11)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [X.609.10 (X.mp2p-srds)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8814) | Managed P2P communications: Signalling requirements for data streaming ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200226E0801MSWE.docx&group=11)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [X.609.9 (X.mp2p-ocmp)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8813) | Managed P2P communications: Overlay content management protocol ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200226D0801MSWE.docx&group=11)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | 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.2245 (Y.saic)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8789) | Service model of the Agriculture Information based Convergence Service ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022550801MSWE.docx&group=13)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Y.3055 (Y.trust-pdm)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8793) | Framework for Trust based Personal Data Management ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022590801MSWE.docx&group=13)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Y.3075 (Y.ICN-RF)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8799) | Requirements and capabilities of Information Centric Networking routing and forwarding based on control and user plane separation in IMT-2020 ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200225F0801MSWE.docx&group=13)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Y.3076 (Y.ICN- Edge)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8801) | Architecture of ICN-enabled Edge Network in IMT-2020 ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022610801MSWE.docx&group=13)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Y.3109 (Y.qos-ec-vr-req)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8790) | QoS requirements and framework for virtual reality delivery using mobile edge computing supported by IMT-2020 ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022560801MSWE.docx&group=13)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Y.3134 (Y.FMC-ReqMO)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8803) | IMT-2020 fixed mobile convergence functional requirements for management and orchestration ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022630801MSWE.docx&group=13)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Y.3136 (Y.FMC-SM)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8802) | Session management for fixed mobile convergence in IMT-2020 networks ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022620801MSWE.docx&group=13)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Y.3150 Rev.](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8804) | High-level technical characteristics of network softwarization for IMT-2020 ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022640801MSWE.docx&group=13)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Y.3155 (Y.IMT2020-ESDP)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8806) | Enhanced SDN Data Plane for IMT-2020 ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022660801MSWE.docx&group=13)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Y.3156 (Y.IMT2020-NSAA-reqts)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8797) | Framework of network slicing with AI-assisted analysis in IMT-2020 networks ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200225D0801MSWE.docx&group=13)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Y.3176 (Y.ML-IMT2020-MP)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8798) | Machine learning marketplace integration in future networks including IMT-2020 ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200225E0801MSWE.docx&group=13)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Y.3525 (Y.cccsdaom-reqts)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8805) | Cloud computing - Requirements for cloud service development and operation management ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022650801MSWE.docx&group=13)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Y.3530 (Y.BaaS-reqts)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8794) | Cloud computing - Functional requirements for blockchain as a service ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200225A0801MSWE.docx&group=13)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Y.3531 (Y.MLaaS-reqts)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8795) | Cloud computing - Functional requirements for machine learning as a service ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200225B0801MSWE.docx&group=13)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Y.3605 (Y.BD-arch)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8796) | Big data - Reference architecture ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200225C0801MSWE.docx&group=13)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Y.3802 (Y.QKDN\_Arch)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8791) | Quantum key distribution networks - Functional architecture ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022570801MSWE.docx&group=13)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Y.3803 (Y.QKDN\_KM)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8792) | Quantum key distribution networks – Key management ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022580801MSWE.docx&group=13)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |
| [Y.3804 (Y.QKDN-CM)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8800) | Quantum Key Distribution Networks - Control and Management ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022600801MSWE.docx&group=13)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |

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** |
| [H.266 (H.VVC, ex H.FVC)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8755) | Versatile video coding ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022330802MSWE.docx&group=16)) | 2020-08-01 | 2020-08-28 | A |  |  |  |  |  | A |
| [H.274 (H.SEI)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8756) | Versatile supplemental enhancement information messages for coded video bitstreams ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022340802MSWE.docx&group=16)) | 2020-08-01 | 2020-08-28 | A |  |  |  |  |  | A |
| [T.701.11 (H.ACC.AltText)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8773) | Guidance on audio descriptions (twin text of ISO/IEC TS 20071-11:2019, Information technology - Guidance on alternative text for images - Part 11) ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022450801MSWE.docx&group=16)) | 2020-09-01 | 2020-09-28 |  |  |  |  |  |  | LC |

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.510 (X.509prot)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8741) | Information technology - Open Systems Interconnection - The Directory: Protocol specifications for secure operations ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022250801MSWE.docx&group=17)) | 2020-06-16 | 2020-07-13 | LJ | AR | 2020-08-01 | 2020-08-21 | 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.4210 (Y.IoT-UM-reqts)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8777) | Requirements and use cases for universal communication module of mobile IoT devices ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022490801MSWE.docx&group=20)) | 2020-08-01 | 2020-08-28 | A |  |  |  |  |  | A |
| [Y.4469 (Y.SCCE-arch)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8778) | Reference architecture of spare computational capability exposure of IoT devices for smart home ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200224A0801MSWE.docx&group=20)) | 2020-08-01 | 2020-08-28 | A |  |  |  |  |  | A |
| [Y.4470 (Y.SSC-AISE-arc)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8779) | Reference architecture of artificial intelligence service exposure for smart sustainable cities ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200224B0801MSWE.docx&group=20)) | 2020-08-01 | 2020-08-28 | A |  |  |  |  |  | A |
| [Y.4472 (Y.API4IOT)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8780) | Open data application programming interface (APIs) for IoT data in smart cities and communities ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200224C0801MSWE.docx&group=20)) | 2020-08-01 | 2020-08-28 | LJ |  |  |  |  |  | LJ |
| [Y.4473 (Y.DPM-ST-API)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8781) | SensorThings API - Sensing ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200224D0801MSWE.docx&group=20)) | 2020-08-01 | 2020-08-28 | A |  |  |  |  |  | A |
| [Y.4474 (Y.IoT-VLC-Arch)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8782) | Functional architecture for IoT services based on Visible Light Communications ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200224E0801MSWE.docx&group=20)) | 2020-08-01 | 2020-08-28 | A |  |  |  |  |  | A |
| [Y.4475 (Y.IoT-LISF)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8783) | Lightweight intelligent software framework for IoT devices ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200224F0801MSWE.docx&group=20)) | 2020-08-01 | 2020-08-28 | A |  |  |  |  |  | A |
| [Y.4558 (Y.smoke-detection)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8784) | Requirements and functional architecture of smart fire smoke detection service ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022500801MSWE.docx&group=20)) | 2020-08-01 | 2020-08-28 | A |  |  |  |  |  | A |
| [Y.4560 (Y.DPM-BC-ES)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8785) | Blockchain-based data exchange and sharing for supporting Internet of things and smart cities and communities ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022510801MSWE.docx&group=20)) | 2020-08-01 | 2020-08-28 | A |  |  |  |  |  | A |
| [Y.4561 (Y.DPM-BC-DM)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8786) | Blockchain-based Data Management for supporting Internet of things and smart cities and communities ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022520801MSWE.docx&group=20)) | 2020-08-01 | 2020-08-28 | A |  |  |  |  |  | A |
| [Y.4808 (Y.IoT-DA-Counterfeit)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8787) | Digital entity architecture framework to combat counterfeiting in IoT ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022530801MSWE.docx&group=20)) | 2020-08-01 | 2020-08-28 | A |  |  |  |  |  | A |
| [Y.4907 (Y.SSC-BKDMS-arc)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8788) | Reference architecture of blockchain-based unified KPI data management for smart sustainable cities ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020022540801MSWE.docx&group=20)) | 2020-08-01 | 2020-08-28 | 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 <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-88)

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.*