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

Geneva, 1 September 2022

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| Ref:  Tel:  Fax:  E-mail: | **TSB AAP-12**  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-12)

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** |
| [K.114 (Revision of ITU-T K.114)](https://www.itu.int/t/aap/recdetails/10271) | Electromagnetic compatibility requirements and measurement methods for digital cellular mobile communication base station equipment ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200281F0801MSWE.docx&group=5)) | 2022-08-01 | 2022-08-28 | A |  |  |  |  |  | A |
| [L.1333 (L.NCIe)](https://www.itu.int/t/aap/recdetails/10264) | Carbon data intensity for network energy performance monitoring ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020028180802MSWE.docx&group=5)) | 2022-07-16 | 2022-08-12 | LJ | AR | 2022-09-01 | 2022-09-21 |  |  | 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.3062 (Q.Pro-Trust)](https://www.itu.int/t/aap/recdetails/10276) | Signalling procedures and protocols for enabling interconnection between trustable network entities in support of existing and emerging networks ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020028240801MSWE.docx&group=11)) | 2022-09-01 | 2022-09-28 |  |  |  |  |  |  | LC |
| [Q.3063 (Q.CIDA)](https://www.itu.int/t/aap/recdetails/10277) | Signalling procedures of calling line identification authentication ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020028250801MSWE.docx&group=11)) | 2022-09-01 | 2022-09-28 |  |  |  |  |  |  | LC |
| [Q.3406 (Q.telemetry-VBNS)](https://www.itu.int/t/aap/recdetails/10274) | Signalling requirements for telemetry of virtual broadband network services ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020028220801MSWE.docx&group=11)) | 2022-09-01 | 2022-09-28 |  |  |  |  |  |  | LC |
| [Q.3721 (Q.BNG-P4switch)](https://www.itu.int/t/aap/recdetails/10275) | Procedures for Programming Protocol-Independent Packet Processors (p4) Switch-based vBNG ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020028230801MSWE.docx&group=11)) | 2022-09-01 | 2022-09-28 |  |  |  |  |  |  | LC |
| [Q.4069 (Q.GDC-IoT-test)](https://www.itu.int/t/aap/recdetails/10279) | Testing requirements and procedures for Internet of Things based green data centres ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020028270801MSWE.docx&group=11)) | 2022-09-01 | 2022-09-28 |  |  |  |  |  |  | LC |
| [Q.5025 (Q.PMUPF)](https://www.itu.int/t/aap/recdetails/10278) | Protocol for managing User Plane function in IMT-2020 network ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020028260801MSWE.docx&group=11)) | 2022-09-01 | 2022-09-28 |  |  |  |  |  |  | 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.2344 (Y.IBN-reqts)](https://www.itu.int/t/aap/recdetails/10280) | Scenarios and requirements of Intent-Based Network for network evolution ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020028280801MSWE.docx&group=13)) | 2022-09-01 | 2022-09-28 |  |  |  |  |  |  | LC |
| [Y.3079 (Y.ICN-NMR)](https://www.itu.int/t/aap/recdetails/10293) | Information-Centric Networking in networks beyond IMT-2020: Framework of locally enhanced name mapping and resolution ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020028350801MSWE.docx&group=13)) | 2022-09-01 | 2022-09-28 |  |  |  |  |  |  | LC |
| [Y.3080 (Y.ICN-TL)](https://www.itu.int/t/aap/recdetails/10294) | Information-Centric Networking in networks beyond IMT-2020: Requirements and Mechanisms of Transport Layer ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020028360801MSWE.docx&group=13)) | 2022-09-01 | 2022-09-28 |  |  |  |  |  |  | LC |
| [Y.3081 (Y.SCid-fr)](https://www.itu.int/t/aap/recdetails/10295) | Self-Controlled Identity based on Blockchain: Requirements and Framework ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020028370801MSWE.docx&group=13)) | 2022-09-01 | 2022-09-28 |  |  |  |  |  |  | LC |
| [Y.3117 (Y.IMT2020-qos-req-se)](https://www.itu.int/t/aap/recdetails/10281) | Quality of service assurance-related requirements and framework for smart education supported by IMT-2020 and beyond ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020028290801MSWE.docx&group=13)) | 2022-09-01 | 2022-09-28 |  |  |  |  |  |  | LC |
| [Y.3118 (Y.IMT2020-jg-lsn)](https://www.itu.int/t/aap/recdetails/10282) | Requirements and framework for jitter guarantee in large scale networks including IMT-2020 and beyond ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200282A0801MSWE.docx&group=13)) | 2022-09-01 | 2022-09-28 |  |  |  |  |  |  | LC |
| [Y.3137 (Y.FMC -AAEC-req)](https://www.itu.int/t/aap/recdetails/10296) | Technical requirements for supporting application addressing in edge computing for future networks including IMT-2020 ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020028380801MSWE.docx&group=13)) | 2022-09-01 | 2022-09-28 |  |  |  |  |  |  | LC |
| [Y.3138 (Y.FMC-EC)](https://www.itu.int/t/aap/recdetails/10297) | Unified multi-access edge computing for supporting fixed mobile convergence in IMT-2020 networks ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020028390801MSWE.docx&group=13)) | 2022-09-01 | 2022-09-28 |  |  |  |  |  |  | LC |
| [Y.3139 (Y.FMC-SDWAN)](https://www.itu.int/t/aap/recdetails/10298) | Fixed mobile convergence enhancements to support IMT-2020 based software-defined wide area networking service ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200283A0801MSWE.docx&group=13)) | 2022-09-01 | 2022-09-28 |  |  |  |  |  |  | LC |
| [Y.3158 (Y.LSMEC)](https://www.itu.int/t/aap/recdetails/10292) | Local shunting for multi-access edge computing in IMT-2020 networks ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020028340801MSWE.docx&group=13)) | 2022-09-01 | 2022-09-28 |  |  |  |  |  |  | LC |
| [Y.3181 (Y.ML-IMT2020-SANDBOX)](https://www.itu.int/t/aap/recdetails/10290) | Architectural framework for Machine Learning Sandbox in future networks including IMT-2020 ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020028320801MSWE.docx&group=13)) | 2022-09-01 | 2022-09-28 |  |  |  |  |  |  | LC |
| [Y.3182 (Y.ML-IMT2020-E2E-MGMT)](https://www.itu.int/t/aap/recdetails/10291) | Machine learning based end-to-end multi-domain network slice management and orchestration ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020028330801MSWE.docx&group=13)) | 2022-09-01 | 2022-09-28 |  |  |  |  |  |  | LC |
| [Y.3537 (Y.mc-reqts)](https://www.itu.int/t/aap/recdetails/10287) | Cloud computing – Functional requirements of cloud service partner for multi-cloud ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200282F0801MSWE.docx&group=13)) | 2022-09-01 | 2022-09-28 |  |  |  |  |  |  | LC |
| [Y.3538 (Y.ccgmfdc)](https://www.itu.int/t/aap/recdetails/10289) | Cloud computing - Global management framework of distributed cloud ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020028310801MSWE.docx&group=13)) | 2022-09-01 | 2022-09-28 |  |  |  |  |  |  | LC |
| [Y.3602 (Y.3602 (Rev))](https://www.itu.int/t/aap/recdetails/10288) | Big data – Functional requirements for data provenance ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020028300801MSWE.docx&group=13)) | 2022-09-01 | 2022-09-28 |  |  |  |  |  |  | LC |
| [Y.3655 (Y. bDDN-MCMec)](https://www.itu.int/t/aap/recdetails/10285) | Big data driven networking - management and control mechanisms ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200282D0801MSWE.docx&group=13)) | 2022-09-01 | 2022-09-28 |  |  |  |  |  |  | LC |
| [Y.3810 (Y.QKDN-iwfr)](https://www.itu.int/t/aap/recdetails/10286) | Quantum key distribution network interworking - framework ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200282E0801MSWE.docx&group=13)) | 2022-09-01 | 2022-09-28 |  |  |  |  |  |  | LC |
| [Y.3811 (Y.QKDN-qos-fa)](https://www.itu.int/t/aap/recdetails/10283) | Quantum key distribution networks - Functional architecture for quality of service assurance ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200282B0801MSWE.docx&group=13)) | 2022-09-01 | 2022-09-28 |  |  |  |  |  |  | LC |
| [Y.3812 (Y.QKDN-qos-ml-req)](https://www.itu.int/t/aap/recdetails/10284) | Quantum key distribution networks - Requirements for machine learning based quality of service assurance ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200282C0801MSWE.docx&group=13)) | 2022-09-01 | 2022-09-28 |  |  |  |  |  |  | LC |

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.4052 (Y.blockchain-terms)](https://www.itu.int/t/aap/recdetails/10306) | Vocabulary for blockchain for supporting Internet of things and smart cities and communities in data processing and management aspects ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020028420801MSWE.docx&group=20)) | 2022-08-01 | 2022-08-28 | A |  |  |  |  |  | A |
| [Y.4216 (Y.infra)](https://www.itu.int/t/aap/recdetails/10299) | Requirements of sensing and data collection system for city infrastructure ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200283B0801MSWE.docx&group=20)) | 2022-08-01 | 2022-08-28 | A |  |  |  |  |  | A |
| [Y.4217 (Y.CS-framework)](https://www.itu.int/t/aap/recdetails/10300) | Service requirements and capability framework for IoT-related crowdsourced systems ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200283C0801MSWE.docx&group=20)) | 2022-08-01 | 2022-08-28 | A |  |  |  |  |  | A |
| [Y.4481 (Y.data-MP)](https://www.itu.int/t/aap/recdetails/10301) | Framework for data middle-platform in IoT and smart sustainable cities ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200283D0801MSWE.docx&group=20)) | 2022-08-01 | 2022-08-28 | A |  |  |  |  |  | A |
| [Y.4482 (Y.IoT-SLF)](https://www.itu.int/t/aap/recdetails/10302) | Requirements and framework for smart livestock farming based on the Internet of things ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200283E0801MSWE.docx&group=20)) | 2022-08-01 | 2022-08-28 | A |  |  |  |  |  | A |
| [Y.4483 (Y.IoT-DSE-arc)](https://www.itu.int/t/aap/recdetails/10304) | Reference architecture of service exposure for decentralized services for Internet of things applications ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020028400801MSWE.docx&group=20)) | 2022-08-01 | 2022-08-28 | A |  |  |  |  |  | A |
| [Y.4484 (Y.eHealth-Semantic)](https://www.itu.int/t/aap/recdetails/10305) | Framework to support Web of Objects ontology based semantic data interoperability of eHealth services ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020028410801MSWE.docx&group=20)) | 2022-08-01 | 2022-08-28 | A |  |  |  |  |  | A |
| [Y.4600 (Y.scdt-reqts)](https://www.itu.int/t/aap/recdetails/10303) | Requirements and capabilities of a digital twin system for smart cities ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200283F0801MSWE.docx&group=20)) | 2022-08-01 | 2022-08-28 | A |  |  |  |  |  | A |

Annex 2

(to TSB AAP-12)

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-12)

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.*