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| ITU official logo_blue_RGB | Международный союз электросвязи  *Бюро стандартизации электросвязи* |  |

Женева, 1 сентября 2022

|  |  |  |
| --- | --- | --- |
| Осн.:  Тел.:  Факс:  Эл. почта: | **TSB AAP-12**  AAP/CL  +41 22 730 5860  +41 22 730 5853  [tsbdir@itu.int](mailto:tsbdir@itu.int) | – Администрациям Государств – Членов Союза;  – Членам Сектора МСЭ-Т;  – Ассоциированным членам МСЭ-Т;  – Академическим организациям − Членам МСЭ  **Копии:**  – Председателям и заместителям председателей Исследовательских комиссий МСЭ-Т;  – Директору Бюро Развития Электросвязи;  – Директору Бюро Радиосвязи |

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| Предмет: | **Положение относительно Рекомендаций, рассматриваемых в соответствии с альтернативным процессом утверждения (АПУ)** |

Уважаемая госпожа,  
уважаемый господин,

Альтернативный процесс утверждения (АПУ), определенный в Рекомендации МСЭ-Т А.8, распространяется на Рекомендации, которые не имеют политических или регламентарных последствий и которые поэтому не требуют официальных консультаций с Государствами-Членами (см. п. 246B Конвенции МСЭ).

В **Приложении 1** содержится перечень текстов, статус которых изменился по сравнению с предыдущими объявлениями об АПУ БСЭ.

Если вы желаете представить замечания относительно какой-либо Рекомендации, рассматриваемой в соответствии с АПУ, рекомендуем Вам использовать онлайновую форму для представления замечаний по АПУ, которая размещена на странице этой Рекомендации в разделе веб-сайта МСЭ-Т, посвященном АПУ, по адресу: [http://www.itu.int/ITU-T/aap/](https://www.itu.int/ITU-T/aap/) (см. **Приложение 2**). Замечания можно представить иным способом, заполнив приведенную в **Приложении 3** форму и направив ее в секретариат заинтересованной исследовательской комиссии.

Просим принять к сведению, что не рекомендуется представлять замечания, являющиеся не чем иным, как поддержкой рассматриваемого текста.

С уважением,

Чхе Суб Ли  
Директор Бюро стандартизации электросвязи

**Приложения**: 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.*