



# МЕЖДУНАРОДНЫЙ СОЮЗ ЭЛЕКТРОСВЯЗИ

*Бюро стандартизации электросвязи*

Женева, 1 сентября 2020

Осн.: **TSB AAP-88** – Администрациям Государств – Членов Союза;  
AAP/CL – Членам Сектора МСЭ-Т;  
– Ассоциированным членам МСЭ-Т;  
Тел.: +41 22 730 5860 – Академическим организациям – Членам МСЭ  
Факс: +41 22 730 5853 **Копии:**  
Эл. почта: [tsbdir@itu.int](mailto:tsbdir@itu.int) – Председателям и заместителям председателей Исследовательских комиссий МСЭ-Т;  
– Директору Бюро Развития Электросвязи;  
– Директору Бюро Радиосвязи

**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. 246В 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 онлайн-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/> (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**

Place des Nations  
CH-1211 Geneva 20  
Switzerland

Telephone +41 22 730 51 11  
Telefax Gr3: +41 22 733 72 56  
Gr4: +41 22 730 65 00

Telex 421 000 uit ch  
E-mail: [itumail@itu.int](mailto:itumail@itu.int)  
Telegram ITU GENEVE

Web page:  
[www.itu.int](http://www.itu.int)

**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>

**Alternative approval process (AAP) welcome page:**

<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	<a href="https://www.itu.int/ITU-T/studygroups/com02">https://www.itu.int/ITU-T/studygroups/com02</a>	<a href="mailto:tsbsg2@itu.int">tsbsg2@itu.int</a>
SG 3	<a href="https://www.itu.int/ITU-T/studygroups/com03">https://www.itu.int/ITU-T/studygroups/com03</a>	<a href="mailto:tsbsg3@itu.int">tsbsg3@itu.int</a>
SG 5	<a href="https://www.itu.int/ITU-T/studygroups/com05">https://www.itu.int/ITU-T/studygroups/com05</a>	<a href="mailto:tsbsg5@itu.int">tsbsg5@itu.int</a>
SG 9	<a href="https://www.itu.int/ITU-T/studygroups/com09">https://www.itu.int/ITU-T/studygroups/com09</a>	<a href="mailto:tsbsg9@itu.int">tsbsg9@itu.int</a>
SG 11	<a href="https://www.itu.int/ITU-T/studygroups/com11">https://www.itu.int/ITU-T/studygroups/com11</a>	<a href="mailto:tsbsg11@itu.int">tsbsg11@itu.int</a>
SG 12	<a href="https://www.itu.int/ITU-T/studygroups/com12">https://www.itu.int/ITU-T/studygroups/com12</a>	<a href="mailto:tsbsg12@itu.int">tsbsg12@itu.int</a>
SG 13	<a href="https://www.itu.int/ITU-T/studygroups/com13">https://www.itu.int/ITU-T/studygroups/com13</a>	<a href="mailto:tsbsg13@itu.int">tsbsg13@itu.int</a>
SG 15	<a href="https://www.itu.int/ITU-T/studygroups/com15">https://www.itu.int/ITU-T/studygroups/com15</a>	<a href="mailto:tsbsg15@itu.int">tsbsg15@itu.int</a>
SG 16	<a href="https://www.itu.int/ITU-T/studygroups/com16">https://www.itu.int/ITU-T/studygroups/com16</a>	<a href="mailto:tsbsg16@itu.int">tsbsg16@itu.int</a>
SG 17	<a href="https://www.itu.int/ITU-T/studygroups/com17">https://www.itu.int/ITU-T/studygroups/com17</a>	<a href="mailto:tsbsg17@itu.int">tsbsg17@itu.int</a>
SG 20	<a href="https://www.itu.int/ITU-T/studygroups/com20">https://www.itu.int/ITU-T/studygroups/com20</a>	<a href="mailto:tsbsg20@itu.int">tsbsg20@itu.int</a>

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	
<a href="#">L.1023 (L.CE 2)</a>	Assessment method for Circular Scoring ( <a href="#">Summary</a> )	2020-06-01	2020-06-28	LJ	AR	2020-09-01	2020-09-21			AR
<a href="#">L.1310 (Revision of ITU-T L.1310)</a>	Energy efficiency metrics and measurement methods for telecommunication equipment ( <a href="#">Summary</a> )	2020-06-01	2020-06-28	LJ	AR	2020-09-01	2020-09-21			AR
<a href="#">L.1331 (Revision of ITU-T L.1331)</a>	Assessment of mobile network energy efficiency ( <a href="#">Summary</a> )	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	
<a href="#">Q.3058 (Q.NGNe-O-SA)</a>	Signalling architecture of orchestration in NGNe ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Q.3059 (Q.SFD)</a>	Signalling requirements for service function discovery ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Q.3060 (Q.ETN-DS)</a>	Signalling architecture of the fast deployment emergency telecommunication network to be used in a natural disaster ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Q.3645 (Q.Pro-DES)</a>	Protocol at interface between two distributed ENUM servers for IMS ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Q.3720 (Q.BNG-PAC)</a>	Procedures for vBNG acceleration with programmable acceleration card ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Q.3915 (Q.BNGP)</a>	Set of parameters of vBNG for monitoring ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Q.3961 (Q.PWS)</a>	Parameters for evaluating bottleneck of web-browsing service ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Q.4062 (Q.FW IoT/Test)</a>	Framework for IoT Testing ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Q.4063 (Q.39 FW Test ID IoT)</a>	The framework of testing of identification systems used in IoT ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Q.4064 (Q.vbng-iop-reqts)</a>	Interoperability testing requirements of virtual Broadband Network Gateway ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC

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	
<a href="#">Q.4066 (Q.TP_AR)</a>	Testing procedures of Augmented Reality applications ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Q.4100 (Q.HP2P-Arch)</a>	Hybrid peer-to-peer (P2P) communications: Functional architecture ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Q.5052 (Q.DEV_DUI)</a>	Addressing mobile devices with duplicate unique identifier ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">X.609.10 (X.mp2p-srds)</a>	Managed P2P communications: Signalling requirements for data streaming ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">X.609.9 (X.mp2p-ocmp)</a>	Managed P2P communications: Overlay content management protocol ( <a href="#">Summary</a> )	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	
<a href="#">Y.2245 (Y.saic)</a>	Service model of the Agriculture Information based Convergence Service ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Y.3055 (Y.trust-pdm)</a>	Framework for Trust based Personal Data Management ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Y.3075 (Y.ICN-RF)</a>	Requirements and capabilities of Information Centric Networking routing and forwarding based on control and user plane separation in IMT-2020 ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Y.3076 (Y.ICN- Edge)</a>	Architecture of ICN-enabled Edge Network in IMT-2020 ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Y.3109 (Y.qos-ec-vr-req)</a>	QoS requirements and framework for virtual reality delivery using mobile edge computing supported by IMT-2020 ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Y.3134 (Y.FMC-ReqMO)</a>	IMT-2020 fixed mobile convergence functional requirements for management and orchestration ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Y.3136 (Y.FMC-SM)</a>	Session management for fixed mobile convergence in IMT-2020 networks ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Y.3150 Rev.</a>	High-level technical characteristics of network softwarization for IMT-2020 ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Y.3155 (Y.IMT2020-ESDP)</a>	Enhanced SDN Data Plane for IMT-2020 ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC

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	
<a href="#">Y.3156 (Y.IMT2020-NSAA-reqts)</a>	Framework of network slicing with AI-assisted analysis in IMT-2020 networks ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Y.3176 (Y.ML-IMT2020-MP)</a>	Machine learning marketplace integration in future networks including IMT-2020 ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Y.3525 (Y.ccsdaom-reqts)</a>	Cloud computing - Requirements for cloud service development and operation management ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Y.3530 (Y.BaaS-reqts)</a>	Cloud computing - Functional requirements for blockchain as a service ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Y.3531 (Y.MLaaS-reqts)</a>	Cloud computing - Functional requirements for machine learning as a service ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Y.3605 (Y.BD-arch)</a>	Big data - Reference architecture ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Y.3802 (Y.QKDN_Arch)</a>	Quantum key distribution networks - Functional architecture ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Y.3803 (Y.QKDN_KM)</a>	Quantum key distribution networks – Key management ( <a href="#">Summary</a> )	2020-09-01	2020-09-28							LC
<a href="#">Y.3804 (Y.QKDN-CM)</a>	Quantum Key Distribution Networks - Control and Management ( <a href="#">Summary</a> )	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	
<a href="#">H.266 (H.VVC, ex H.FVC)</a>	Versatile video coding ( <a href="#">Summary</a> )	2020-08-01	2020-08-28	A						A
<a href="#">H.274 (H.SEI)</a>	Versatile supplemental enhancement information messages for coded video bitstreams ( <a href="#">Summary</a> )	2020-08-01	2020-08-28	A						A
<a href="#">T.701.11 (H.ACC.AltText)</a>	Guidance on audio descriptions (twin text of ISO/IEC TS 20071-11:2019, Information technology - Guidance on alternative text for images - Part 11) ( <a href="#">Summary</a> )	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	
<a href="#">X.510 (X.509prot)</a>	Information technology - Open Systems Interconnection - The Directory: Protocol specifications for secure operations <a href="#">(Summary)</a>	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	
<a href="#">Y.4210 (Y.IoT-UM-reqts)</a>	Requirements and use cases for universal communication module of mobile IoT devices ( <a href="#">Summary</a> )	2020-08-01	2020-08-28	A						A
<a href="#">Y.4469 (Y.SCCE-arch)</a>	Reference architecture of spare computational capability exposure of IoT devices for smart home ( <a href="#">Summary</a> )	2020-08-01	2020-08-28	A						A
<a href="#">Y.4470 (Y.SSC-AISE-arc)</a>	Reference architecture of artificial intelligence service exposure for smart sustainable cities ( <a href="#">Summary</a> )	2020-08-01	2020-08-28	A						A
<a href="#">Y.4472 (Y.API4IOT)</a>	Open data application programming interface (APIs) for IoT data in smart cities and communities ( <a href="#">Summary</a> )	2020-08-01	2020-08-28	LJ						LJ
<a href="#">Y.4473 (Y.DPM-ST-API)</a>	SensorThings API - Sensing ( <a href="#">Summary</a> )	2020-08-01	2020-08-28	A						A
<a href="#">Y.4474 (Y.IoT-VLC-Arch)</a>	Functional architecture for IoT services based on Visible Light Communications ( <a href="#">Summary</a> )	2020-08-01	2020-08-28	A						A
<a href="#">Y.4475 (Y.IoT-LISF)</a>	Lightweight intelligent software framework for IoT devices ( <a href="#">Summary</a> )	2020-08-01	2020-08-28	A						A
<a href="#">Y.4558 (Y.smoke-detection)</a>	Requirements and functional architecture of smart fire smoke detection service ( <a href="#">Summary</a> )	2020-08-01	2020-08-28	A						A
<a href="#">Y.4560 (Y.DPM-BC-ES)</a>	Blockchain-based data exchange and sharing for supporting Internet of things and smart cities and communities ( <a href="#">Summary</a> )	2020-08-01	2020-08-28	A						A

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	
<a href="#">Y.4561 (Y.DPM-BC-DM)</a>	Blockchain-based Data Management for supporting Internet of things and smart cities and communities ( <a href="#">Summary</a> )	2020-08-01	2020-08-28	A						A
<a href="#">Y.4808 (Y.IoT-DA-Counterfeit)</a>	Digital entity architecture framework to combat counterfeiting in IoT ( <a href="#">Summary</a> )	2020-08-01	2020-08-28	A						A
<a href="#">Y.4907 (Y.SSC-BKDMS-arc)</a>	Reference architecture of blockchain-based unified KPI data management for smart sustainable cities ( <a href="#">Summary</a> )	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

Recommendation_No	Title	Study_Group	State	Consent_Date	Approval_Date	Study_Period	Comment
<a href="#">G.711.1 (2008) Amd.1</a>	Wideband embedded extension for G.711 pulse code modulation: New Annex A on a reference floating-point implementation for G.711.1 and editorial corrections to the main body text	16	LC	2008-10-03		2005-2008	
<a href="#">G.718 (2008) Cor.1</a>	Frame error robust narrowband and wideband embedded variable bit-rate coding of speech and audio from 8-32 kbit/s: Corrections to fixed-point C-code	16	LC	2008-10-03		2005-2008	
<a href="#">G.719 (2008) Amd.1</a>	New Annex A on storage format definitions for G.719, and new Annex B on a reference floating-point implementation for G.719	16	LC	2008-10-03		2005-2008	
<a href="#">G.722.2 (2003) Cor.3</a>	Wideband coding of speech at around 16 kbit/s using Adaptive Multi-Rate Wideband (AMR-WB): Corrections to text and C source code in Annex C	16	LC	2008-10-03		2005-2008	
<a href="#">G.729.1 (2006) Amd.5</a>	G.729-based embedded variable bit-rate coder: An 8-32 kbit/s scalable wideband coder bitstream interoperable with G.729: New Annex D (Reference floating-point implementation for G.729.1 Annex C DTX/CNG) and corrections to the main body and Annex B	16	LC	2008-10-03		2005-2008	
<a href="#">H.264 (2007) Cor.1</a>	Advanced video coding for generic audiovisual services: corrections and updates	16	LJ	2008-05-02		2005-2008	★

Total 6 records match.

3) Click the "Submit Comment" button

The screenshot shows the ITU AAP interface for Recommendation G.711.1 (2008) Amd.1. The 'Basic Information' table is as follows:

Title	Study Group	Current Status	Consent Date	Approval Date	Study Period	Provisional Name	IPR	Input used for Consent
Wideband embedded extension for G.711 pulse code modulation: New Annex A on a reference floating-point implementation for G.711.1 and editorial corrections to the main body text	16	LC	2008-10-03		2005-2008	G.711-WB-Float	?	TD 381-WP3

The 'AAP Process Details' table is as follows:

Last Call (LC)				Additional Review (AR)				Study Group (SG)	
LC Start	LC End	LC Result	LJ Result	AR Start	AR End	AR Result	AJ Result	SG Date	SG Result
2008-10-16	2008-11-12								
[AAP-92]									
LC - Text / Summary				AR - Text / Summary				SG Documents	
<a href="#">LC Text</a> <a href="#">LC Summary</a>									
LC - Comments				AR - Comments				SG Decisions	

A red arrow points to the 'Submit Comment' button at the bottom of the page.

4) Complete the on-line form and click on "Submit"

Study group\*: SG16

Announcement number\*: AAP 92

Recommendation number\*: G.711.1 (2008) Amd.1

Recommendation under\*:  Last Call (LC)  Additional Review (AR)

Country: Adelie Land

Administration or Company\*: [Dropdown]

Email of contact (for AAP): [Dropdown]

Email of Administration or Company: [Text]

Technical contact email: [Text]

Sender name\*: [Text]

Sender email address\*: [Text]

Telephone: [Text]

**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.

**Observation:**

Comments or revised text should be sent as an attachment in reprocessible format such as RTF or Winword. Revision marks must be shown relative to the text posted by TSB.

Attach the file: [Text]

Note: Maximum file size is 10 Mb

No attachment Comments are given in the Observation field, no attachment needed

Please check your entries and click on **Submit to confirm**

If the submission is successful, you will get an acknowledgement report and receive an email containing this report.

For more information, read the AAP tutorial on:  
<https://www.itu.int/ITU-T/aapinfo/files/AAPTutorial.pdf>

(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:**  We do not support this text. Reasons are given in the attachment.  
(Choose as applicable)  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.