



Женева, 1/09/2026

Осн.: **TSB AAP-43**

AAP/SO

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Кому:

- Администрациям Государств – Членов Союза;
- Государство Палестина (РЕЗОЛЮЦИЯ 99 (ПЕРЕСМ. ДУБАЙ, 2018 г.));
- 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

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: <https://www.itu.int/t/aap/aap-recs> (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,

Seizo Onoe

Директор Бюро стандартизации электросвязи

Приложения: 3

Result of AAP-43:

Total Recommendations under AAP: 103

Total Recommendations Approved: 73

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/t/aap/about-aap>

ITU-T AAP Recommendation website:

<https://www.itu.int/t/aap/aap-recs>

Study Group web pages and contacts:

SG2	https://www.itu.int/go/tsg2	tsbsg2@itu.int
SG3	https://www.itu.int/go/tsg3	tsbsg3@itu.int
SG5	https://www.itu.int/go/tsg5	tsbsg5@itu.int
SG11	https://www.itu.int/go/tsg11	tsbsg11@itu.int
SG12	https://www.itu.int/go/tsg12	tsbsg12@itu.int
SG13	https://www.itu.int/go/tsg13	tsbsg13@itu.int
SG15	https://www.itu.int/go/tsg15	tsbsg15@itu.int
SG17	https://www.itu.int/go/tsg17	tsbsg17@itu.int
SG20	https://www.itu.int/go/tsg20	tsbsg20@itu.int
SG21	https://www.itu.int/go/tsg21	tsbsg21@itu.int

Situation concerning Study Group 5 Recommendations under AAP

Rec #Title		Last Call (LC)			Additional Review (AR)			Status
		Start / End	LC Result	LJ Result	Start / End	AR Result	AJ Result	
L.1493 (L.ICT VPP)	Framework and methodology for assessing ICT-based virtual power plants to climate change mitigation (Summary)	2026-07-01 2026-07-28	LJ	AR	2026-09-01 2026-09-21			AR

Situation concerning Study Group 11 Recommendations under AAP

Rec #	Title	Last Call (LC)			Additional Review (AR)			Status
		Start / End	LC Result	LJ Result	Start / End	AR Result	AJ Result	
Q.3067 (Q.Reg Frame_RRDN)	Requirements and framework for network-based rapid response to disaster caused by natural hazards (Summary)	2026-09-01 2026-09-28						LC
Q.3068 (Q.S-NICE-SA)	Signalling architecture of S-NICE (Software-defined network intelligence capability enhancement) (Summary)	2026-09-01 2026-09-28						LC
Q.3069 (Q.IBN-SA)	Signalling architecture of Intent-Based Network for network evolution (Summary)	2026-09-01 2026-09-28						LC
Q.3725 (Q.BNG-IBN)	Signalling requirements for virtualized Broadband Network Gateway in Intent-Based Network (Summary)	2026-09-01 2026-09-28						LC
Q.3726 (Q.SARO)	Signalling requirements for acceleration resources orchestration in multi-access edge computing (Summary)	2026-09-01 2026-09-28						LC
Q.3743 (Q.SCC)	Signalling requirements and data models of cooperative controller (Summary)	2026-09-01 2026-09-28						LC
Q.4079 (Q.MPCO)	Monitoring parameters for protocol and resource of software defined networking and network functions virtualization-based central office service (Summary)	2026-09-01 2026-09-28						LC
Q.4107 (Q.HP2P-fvcp)	Hybrid peer-to-peer (P2P) communications: Control protocol for feature-based video services (Summary)	2026-09-01 2026-09-28						LC
Q.4166 (Q.QKDNi_KM)	Protocols for interfaces between key managers for quantum key distribution network interworking (Summary)	2026-09-01 2026-09-28						LC
Q.4167 (Q.QKDN_GC)	General control protocols for interfaces on quantum key distribution network controller for quantum key distribution networks (Summary)	2026-09-01 2026-09-28						LC
Q.4168 (Q.QKDN_Mk)	Protocols for interfaces on quantum key distribution network manager for quantum key distribution networks (Summary)	2026-09-01 2026-09-28						LC
Q.4169 (Q.QKDN_Cq)	Protocols for Cq interfaces for quantum key distribution networks (Summary)	2026-09-01 2026-09-28						LC
Q.4181 (Q.PMEE)	Protocol for managing energy efficiency with AI-assisted analysis in IMT-2020 networks and beyond (Summary)	2026-09-01 2026-09-28						LC
Q.5039 (Q.CCONS)	Signalling requirements and protocol for confidential computing orchestration of network slices in IMT-2020 networks and beyond (Summary)	2026-09-01 2026-09-28						LC

Rec #	Title	Last Call (LC)			Additional Review (AR)			Status
		Start / End	LC Result	LJ Result	Start / End	AR Result	AJ Result	
Q.5040 (Q.SDTN)	Signalling and protocol for Digital Twin Network supported for IMT-2020 network and beyond (Summary)	2026-09-01 2026-09-28						LC
Q.5041 (Q.PDS)	Protocols for data streaming service in IMT-2020 network and beyond (Summary)	2026-09-01 2026-09-28						LC
X.609.11 (X.mp2p-srdtf)	Managed peer-to-peer (P2P) communications: Signalling requirements for digital twin federation (Summary)	2026-09-01 2026-09-28						LC

Situation concerning Study Group 12 Recommendations under AAP

Rec #Title		Last Call (LC)			Additional Review (AR)			Status
		Start / End	LC Result	LJ Result	Start / End	AR Result	AJ Result	
J.344.1 (j.noref)	No-Reference Perceptual Objective Video Quality Assessment Models for Assessing Coding Artifacts in Full High Definition Video (Summary)	2026-07-01 2026-07-28	LJ	AR	2026-09-01 2026-09-21			AR
J.344.2 (j.noref)	No-Reference Perceptual Objective Video Quality Assessment Model for Assessing Coding Artifacts and Camera Impairments in Full High Definition Video (Summary)	2026-07-01 2026-07-28	LJ	AR	2026-09-01 2026-09-21			AR

Situation concerning Study Group 15 Recommendations under AAP

Rec #	Title	Last Call (LC)			Additional Review (AR)			Status
		Start / End	LC Result	LJ Result	Start / End	AR Result	AJ Result	
G.672	Characteristics of multi-degree reconfigurable optical add/drop multiplexers (Summary)	2026-08-01 2026-08-28	A					A
G.697	Optical monitoring for dense wavelength division multiplexing systems (Summary)	2026-08-01 2026-08-28	A					A
G.709.1	Flexible OTN common elements (Summary)	2026-08-01 2026-08-28	LJ					LJ
G.709.3 Amd.1	Flexible OTN B100G long-reach interfaces- Amendment 1 (Summary)	2026-08-01 2026-08-28	A					A
G.709.5 Amd.2	Flexible OTN short-reach interfaces - Amendment 2 (Summary)	2026-08-01 2026-08-28	LJ					LJ
G.709.6	Flexible OTN B400G and B1T long reach interfaces (Summary)	2026-08-01 2026-08-28	LJ					LJ
G.709.7 (G.709.mfi)	Flexible OTN module to framer interfaces (Summary)	2026-08-01 2026-08-28	LJ					LJ
G.806	Characteristics of transport equipment - Description methodology and generic functionality (Summary)	2026-08-01 2026-08-28	LJ					LJ
G.807 Amd. 1	Generic functional architecture of the optical media layer - Amendment 1 (Summary)	2026-08-01 2026-08-28	LJ					LJ
G.811.1 Amd.1	Timing characteristics of enhanced primary reference clocks - Amendment 1 (Summary)	2026-08-01 2026-08-28	A					A
G.812	Timing requirements of clocks suitable for use as node clocks in synchronization networks (Summary)	2026-08-01 2026-08-28	A					A
G.988 (2022) Amd.3	ONU management and control interface (OMCI) specification - Amendment 3 (Summary)	2026-08-01 2026-08-28	LJ					LJ
G.7702 Amd.2	Architecture for SDN control of transport networks - Amendment 2 (Summary)	2026-08-01 2026-08-28	A					A
G.7713 Amd.1	Distributed call and connection management (DCM) - Amendment 1 (Summary)	2026-08-01 2026-08-28	A					A

Rec #	Title	Last Call (LC)			Additional Review (AR)			Status
		Start / End	LC Result	LJ Result	Start / End	AR Result	AJ Result	
G.7721 Amd.1	Management requirement and information model for synchronization-Amendment 1 (Summary)	2026-08-01 2026-08-28	A					A
G.8011	Ethernet service characteristics (Summary)	2026-08-01 2026-08-28	A					A
G.8020.3	Ethernet (Summary)	2026-08-01 2026-08-28	A					A
G.8032/Y.1344 (2020) Cor.2	Ethernet ring protection switching - Corrigendum 2 (Summary)	2026-08-01 2026-08-28	A					A
G.8260	Definitions and terminology for synchronization in packet networks (Summary)	2026-08-01 2026-08-28	A					A
G.8262.1 Amd.1	Timing characteristics of enhanced synchronous equipment clock - Amendment 1 (Summary)	2026-08-01 2026-08-28	A					A
G.8272 Amd.1	Timing characteristics of primary reference time clocks - Amendment 1 (Summary)	2026-08-01 2026-08-28	A					A
G.8272.1 (2024) Amd.2	Timing characteristics of enhanced primary reference time clocks - Amendment 2 (Summary)	2026-08-01 2026-08-28	A					A
G.8272.2 Amd.2	Timing characteristics of coherent network primary reference time clocks - Amendment 2 (Summary)	2026-08-01 2026-08-28	A					A
G.8275 Amd.1	Common aspects of PTP profiles for phase/time synchronization - Amendment 1 (Summary)	2026-08-01 2026-08-28	A					A
G.8275.1 Amd.1	Precision time protocol telecom profile for phase/time synchronization with full timing support from the network - Amendment 1 (Summary)	2026-08-01 2026-08-28	A					A
G.8275.2 Amd.1	Precision time protocol telecom profile for phase/time synchronization with partial timing support from the network - Amendment 1 (Summary)	2026-08-01 2026-08-28	A					A
G.8312	Interfaces for metro transport networks (Summary)	2026-08-01 2026-08-28	A					A
G.9903 Amd.3	Narrowband orthogonal frequency division multiplexing power line communication and radio frequency transceivers for G3-PLC and G3-Hybrid networks - Amendment 3 (Summary)	2026-08-01 2026-08-28	A					A
G.9903 Cor.2	Narrowband orthogonal frequency division multiplexing power line communication and radio frequency transceivers for G3-PLC and G3-Hybrid networks - Corrigendum 2 (Summary)	2026-08-01 2026-08-28	A					A

Rec #	Title	Last Call (LC)			Additional Review (AR)			Status
		Start / End	LC Result	LJ Result	Start / End	AR Result	AJ Result	
G.9946 (G.Xfin-DLL)	High speed fibre-based in-premises transceivers - 10G data link layer (Summary)	2026-08-01 2026-08-28	LJ					LJ
L.105 Cor.1	Optical fibre cables for drop applications - Corrigendum 1 (Summary)	2026-08-01 2026-08-28	A					A
L.108	Optical fibre cable elements for microduct blowing-installation application (Summary)	2026-08-01 2026-08-28	A					A
L.361	ID tag requirements for network infrastructures management (Summary)	2026-08-01 2026-08-28	A					A

Situation concerning Study Group 17 Recommendations under AAP

Rec #	Title	Last Call (LC)			Additional Review (AR)			Status
		Start / End	LC Result	LJ Result	Start / End	AR Result	AJ Result	
X.1287 (X.ias)	Functional requirements for the integrated authentication service of telecommunication operators (Summary)	2026-08-01 2026-08-28	A					A
X.1378 (X.idse)	Evaluation methodology for in-vehicle intrusion detection systems (Summary)	2026-08-01 2026-08-28	A					A
X.1419 (X.dlt-share)	Security requirements for data application software based on DLT to achieve statistics (Summary)	2026-08-01 2026-08-28	LJ					LJ
X.1632 (X.ckrp)	Framework of cryptographic key resource pool for multi-tenant cloud computing (Summary)	2026-08-01 2026-08-28	A					A

Situation concerning Study Group 21 Recommendations under AAP

Rec #	Title	Last Call (LC)			Additional Review (AR)			Status
		Start / End	LC Result	LJ Result	Start / End	AR Result	AJ Result	
F.740.16 (H.CAR-FA)	Functional requirements and detailed framework for cloud-based augmented reality systems (Summary)	2026-08-01 2026-08-28	A					A
F.740.17 (H.CVR-OP)	Functional requirements for enhanced optimized processing of cloud virtual reality systems (Summary)	2026-08-01 2026-08-28	A					A
F.740.18 (F.HIM)	Requirements of holographic interactive multimedia service based on core cloud and edge cloud (Summary)	2026-08-01 2026-08-28	A					A
F.740.19 (F.ARMSOR)	Technical requirements of object recognition for digital representation of cultural relics/artworks using augmented reality (Summary)	2026-08-01 2026-08-28	A					A
F.740.20 (F.MRCH)	Metadata for recording spatial and temporal information of outdoor cultural heritage based on universal scene description format (Summary)	2026-08-01 2026-08-28	A					A
F.740.21 (F.LVR-CHS)	Requirements and reference framework for large-scale virtual reality system of cultural heritage sites (Summary)	2026-08-01 2026-08-28	A					A
F.743.40 (F.SIVIS)	Requirements and framework of substation intelligent visual inspection system (Summary)	2026-08-01 2026-08-28	A					A
F.743.41 (F.ADSLMV)	Requirements and framework for anomaly detection service leveraging machine vision in photovoltaic farms (Summary)	2026-08-01 2026-08-28	A					A
F.746.24 (H.AI-MPS)	Technical requirements and architecture on artificial intelligence-based media processing service (Summary)	2026-08-01 2026-08-28	A					A
F.746.26 (H.ILMTS-arch)	Functional architecture of interactive low-latency multimedia transmission system (Summary)	2026-08-01 2026-08-28	A					A
F.746.28 (F.FW-AGQA)	Framework for content verification of AI-based online games (Summary)	2026-08-01 2026-08-28	A					A
F.747.18 (F.MVBIS)	Requirements and Framework for Machine-Vision-Based Inspection Services in Underground Cable Channels (Summary)	2026-08-01 2026-08-28	A					A
F.748.82 (F.FRTVM)	Framework for the robustness training of visual model based on deep learning (Summary)	2026-08-01 2026-08-28	A					A
F.748.84 (F.FML-TS-ARC)	Functional architecture of federated machine learning based service in decentralized environments (Summary)	2026-08-01 2026-08-28	A					A

Rec #	Title	Last Call (LC)			Additional Review (AR)			Status
		Start / End	LC Result	LJ Result	Start / End	AR Result	AJ Result	
F.748.85 (H.FDM-AC-V)	Assessment criteria for foundation models - Vision (Summary)	2026-08-01 2026-08-28	A					A
F.748.86 (F.AI-RMCDP)	Requirements of multimedia composite data pre-processing (Summary)	2026-08-01 2026-08-28	A					A
F.748.87 (F.AI-RSRsreqs)	Requirements for real-time super-resolution service based on artificial intelligence (Summary)	2026-08-01 2026-08-28	A					A
F.748.88 (F.DCOR-reqs)	Requirements for construction of ontology knowledge base for household service robots (Summary)	2026-08-01 2026-08-28	A					A
F.748.89 (F.DCHE-Regs)	Requirements for construction of ontology knowledge base of home environment for robot interaction (Summary)	2026-08-01 2026-08-28	A					A
F.748.90 (F.TAKEA)	Framework and technical requirements for knowledge engineering applications based on foundation models (Summary)	2026-08-01 2026-08-28	A					A
F.748.91 (F.LLMO)	Requirements and evaluation metrics for large language model operators (Summary)	2026-08-01 2026-08-28	A					A
F.748.93 (F.AAI)	Framework and Requirements for AI Agent Interoperability (Summary)	2026-08-01 2026-08-28	A					A
F.749.22 (F.SDV-Reqts)	Functional requirements for software-defined vehicle service based on vehicle gateway platforms (Summary)	2026-08-01 2026-08-28	A					A
F.749.23 (F.CAV-RMBEVL)	Requirements and methods for bird's-eye view sensor fusion data labelling in connected and automated vehicles (Summary)	2026-08-01 2026-08-28	A					A
F.749.24 (F.CV-AIVVA)	Framework and Requirements for AI-enabled Vehicle Voice Assistant (Summary)	2026-08-01 2026-08-28	A					A
F.749.25 (F.CV-DDDS)	Framework, requirements and evaluation methods for driver distraction detection system (Summary)	2026-08-01 2026-08-28	A					A
F.749.26 (F.VGP-PARK)	Requirements for automated parking service based on vehicle gateway platform (Summary)	2026-08-01 2026-08-28	A					A
F.751.29 (H.DLT-DMESB)	Framework for distributed ledger technology-based data management of energy storage battery system (Summary)	2026-08-01 2026-08-28	A					A
F.751.32 (F.DLT-DAT)	Framework and requirements for tracking of digital assets based on distributed ledger technology (Summary)	2026-08-01 2026-08-28	A					A

Rec #	Title	Last Call (LC)			Additional Review (AR)			Status
		Start / End	LC Result	LJ Result	Start / End	AR Result	AJ Result	
F.751.33 (F.DLT-DMPSSC)	Framework of distributed ledger technology-based data management for software supply chain (Summary)	2026-08-01 2026-08-28	A					A
F.751.34 (H.DLT-MMPA)	Maturity model of permissioned distributed ledger technology applications (Summary)	2026-08-01 2026-08-28	A					A
F.751.36 (F.DLT-DMPTS)	Framework and requirement for DLT-based data management of product traceability services (Summary)	2026-08-01 2026-08-28	A					A
F.780.6 (V3)	Requirements for colorimetry for telemedicine systems using ultra-high definition imaging (Summary)	2026-08-01 2026-08-28	A					A
F.793.1 (F.ACC-MV-SD)	Requirements of accessible products and services in the metaverse- Part I System design perspective (Summary)	2026-08-01 2026-08-28	A					A
F.793.2 (F.ACC-MV-UP)	Requirements of accessible products and services in the metaverse - Part II User perspective (Summary)	2026-08-01 2026-08-28	A					A
H.430.10 (H.ILE-3DIT)	Functional requirements and frameworks for 3D model-based immersive telepresence services (Summary)	2026-08-01 2026-08-28	A					A
H.430.11 (H.ILE-AR)	Requirements and framework of augmented reality for immersive live experience (ILE) services (Summary)	2026-08-01 2026-08-28	A					A
H.626.9 (H.VSDTAS-Arch)	Architecture and metadata of digital twin model assembling and interaction services for video surveillance systems (Summary)	2026-08-01 2026-08-28	A					A
H.644.9 (H.CDN-MECptI)	Mobile/multi-access content delivery network: Protocols (Summary)	2026-08-01 2026-08-28	A					A
H.770.2 (H.MV-HIA)	High-level interoperability architecture for cross-platform metaverse (Summary)	2026-08-01 2026-08-28	A					A
J.1040 (Amd1)	Digital rights management for video and audio content distribution - Requirements (Summary)	2026-08-01 2026-08-28	A					A
J.1045 (J.ADCP-REQ)	Requirements of advanced digital content protection system for digital multimedia interface (Summary)	2026-08-01 2026-08-28	A					A
J.1115 (Rev.)	Functional requirements for IP-based smart digital audio services (Summary)	2026-08-01 2026-08-28	A					A
J.1116 (J.DAS-SPEC)	Specifications for IP-based Smart Digital Audio Service : AI manager and Signalling (Summary)	2026-08-01 2026-08-28	A					A

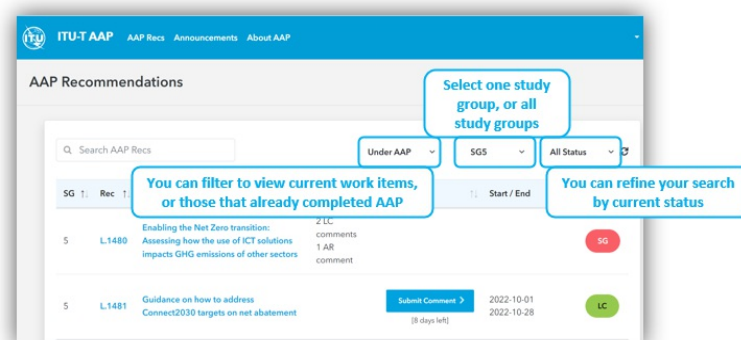
Rec #	Title	Last Call (LC)			Additional Review (AR)			Status
		Start / End	LC Result	LJ Result	Start / End	AR Result	AJ Result	
J.1293 (J.STB-DONGLE)	Technical requirements and measurement methods for 4K UHD pluggable mini set-top boxes (Summary)	2026-08-01 2026-08-28	A					A
T.261 (H.BWC)	Biomedical and general waveform signal coding (Summary)	2026-09-01 2026-09-28						LC

(To TSB AAP-43)

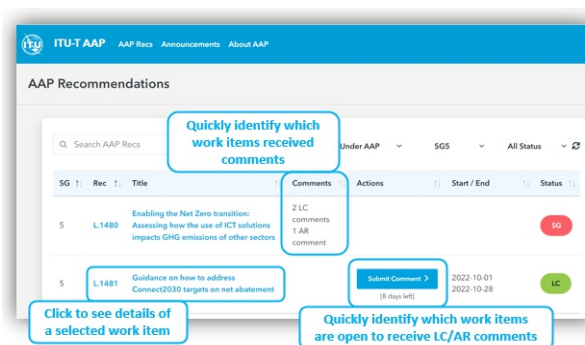
Using the on-line comment submission form

Comment submission

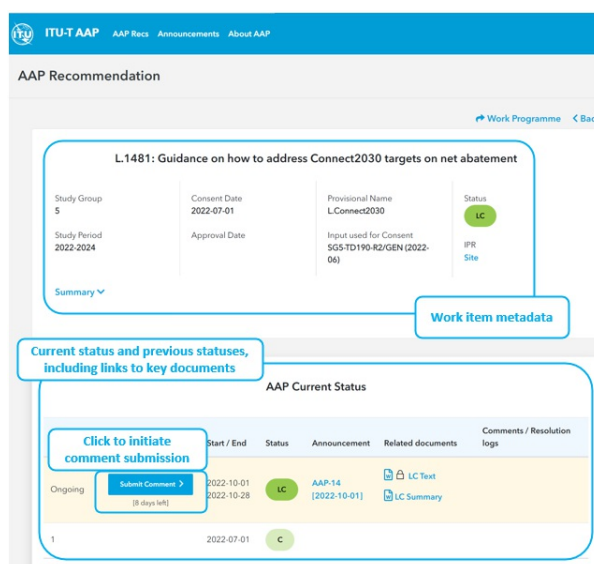
1. Go to AAP site <https://www.itu.int/t/aap/aap-recs> and select an AAP Recommendation:



- 2) Select your Recommendation



- 3) Click the "Submit Comment" button



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

Draft Recommendation L.1481
Study Group 5 - Last Call Additional Review
Deadline: 2022-10-28 (23:59 hours Geneva time)
Comment period deadline: 8d 12h 50m

About you

Your details

Contact details are automatically filled in

AAP Focal point

To update the AAP focal point details, please contact tsbaap@itu.int

Submit your comment

Level of support for Approval

☐ We support approval of this text on the condition that it be modified per the revisions given below and/or in the attachment.

☐ We do not support approval of this text. Reasons are given below and/or in the attachment

Comment

Please provide your comment(s), if any.

Attachment

☐ File attached

☐ None. Comments are given in the 'Comment' field, no attachment needed.

Submit

5) You will receive an email notification with details of your submission

(To TSB AAP-43)

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)**Sender name:**
(if different from AAP
Contact Person)**Sender email address:****Administration/Company:****Country:****Name of AAP Contact
Person:****Email of AAP Contact
Person:****Comments:**
(Level of support for
Approval)☐ We support approval of this text on the condition that it be modified per the revisions given☐ We do not support approval of this text. Reasons are given below and/or in the attachment.**Comments:****No attachment:** Comments are given in the 'Comment' field, no attachment needed.To be returned to: email: tsbgs...@itu.int
[or fax +41 22 730 5853]

Comments or revised text should be sent as an attachment in one of the following formats: .docx, .doc, .pdf, .xlsx, zip, rar, txt.

Revision marks must be shown relative to the text posted by TSB.