



Geneva, 16/04/2025

Ref: **TSB AAP-11**  
AAP/SO

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**To:**

- Administrations of Member States of the Union;
- The State of Palestine (Res. 99 (Rev. Dubai, 2018));
- ITU-T Sector Members;
- ITU-T Associates;
- ITU Academia

**Copy to:**

- The Chairs and Vice-Chairs of Study Groups;
- The Director of the Telecommunication Development Bureau;
- 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/t/aap/aap-recs> (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,

Seizo Onoe  
Director of the Telecommunication Standardization Bureau

**Annexes: 3**



**Result of AAP-11:**

Total Recommendations under AAP: 53

Total Recommendations Approved: 10

**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  | <a href="https://www.itu.int/go/tsg2">https://www.itu.int/go/tsg2</a>   | <a href="mailto:tsbsg2@itu.int">tsbsg2@itu.int</a>   |
| SG3  | <a href="https://www.itu.int/go/tsg3">https://www.itu.int/go/tsg3</a>   | <a href="mailto:tsbsg3@itu.int">tsbsg3@itu.int</a>   |
| SG5  | <a href="https://www.itu.int/go/tsg5">https://www.itu.int/go/tsg5</a>   | <a href="mailto:tsbsg5@itu.int">tsbsg5@itu.int</a>   |
| SG9  | <a href="https://www.itu.int/go/tsg9">https://www.itu.int/go/tsg9</a>   | <a href="mailto:tsbsg9@itu.int">tsbsg9@itu.int</a>   |
| SG11 | <a href="https://www.itu.int/go/tsg11">https://www.itu.int/go/tsg11</a> | <a href="mailto:tsbsg11@itu.int">tsbsg11@itu.int</a> |
| SG12 | <a href="https://www.itu.int/go/tsg12">https://www.itu.int/go/tsg12</a> | <a href="mailto:tsbsg12@itu.int">tsbsg12@itu.int</a> |
| SG13 | <a href="https://www.itu.int/go/tsg13">https://www.itu.int/go/tsg13</a> | <a href="mailto:tsbsg13@itu.int">tsbsg13@itu.int</a> |
| SG15 | <a href="https://www.itu.int/go/tsg15">https://www.itu.int/go/tsg15</a> | <a href="mailto:tsbsg15@itu.int">tsbsg15@itu.int</a> |
| SG16 | <a href="https://www.itu.int/go/tsg16">https://www.itu.int/go/tsg16</a> | <a href="mailto:tsbsg16@itu.int">tsbsg16@itu.int</a> |
| SG17 | <a href="https://www.itu.int/go/tsg17">https://www.itu.int/go/tsg17</a> | <a href="mailto:tsbsg17@itu.int">tsbsg17@itu.int</a> |
| SG20 | <a href="https://www.itu.int/go/tsg20">https://www.itu.int/go/tsg20</a> | <a href="mailto:tsbsg20@itu.int">tsbsg20@itu.int</a> |
| SG21 | <a href="https://www.itu.int/go/tsg21">https://www.itu.int/go/tsg21</a> | <a href="mailto:tsbsg21@itu.int">tsbsg21@itu.int</a> |

**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 |        |
| <a href="#">Q.3722</a><br><a href="#">(Q.BNG-CA)</a>        | Signalling requirements of virtual Broadband Network Gateway (vBNG) for cloud access ( <a href="#">Summary</a> )                                        | 2025-03-16<br>2025-04-12 | A         |           |                        |           |           | A      |
| <a href="#">Q.3956</a><br><a href="#">(Q.VoNR-test)</a>     | Voice over New Radio (VoNR)/Video over New Radio (ViNR) interconnection testing for interworking and roaming scenarios ( <a href="#">Summary</a> )      | 2025-03-16<br>2025-04-12 | A         |           |                        |           |           | A      |
| <a href="#">Q.3957</a><br><a href="#">(Q.vbng-pup-iopt)</a> | Interoperability testing suite for cloud-based control plane and pooled user plane of virtualized broadband network gateway ( <a href="#">Summary</a> ) | 2025-03-16<br>2025-04-12 | A         |           |                        |           |           | A      |
| <a href="#">Q.4076</a><br><a href="#">(Q.ETFRM)</a>         | Evolution of Testbeds Federations Reference Model ( <a href="#">Summary</a> )                                                                           | 2025-03-16<br>2025-04-12 | A         |           |                        |           |           | A      |
| <a href="#">Q.4077</a><br><a href="#">(Q.TADIR)</a>         | Testbed as a Service application program interfaces descriptions and interoperability requirements ( <a href="#">Summary</a> )                          | 2025-03-16<br>2025-04-12 | A         |           |                        |           |           | A      |
| <a href="#">Q.4078</a><br><a href="#">(Q.URRM)</a>          | User requirements and reference model for Testbed as a Service ( <a href="#">Summary</a> )                                                              | 2025-03-16<br>2025-04-12 | A         |           |                        |           |           | A      |
| <a href="#">Q.4144</a><br><a href="#">(Q.CSO)</a>           | Signalling requirements for cross-operator service orchestration in computing power network ( <a href="#">Summary</a> )                                 | 2025-03-16<br>2025-04-12 | A         |           |                        |           |           | A      |
| <a href="#">Q.4164</a><br><a href="#">(Q.4164 rev)</a>      | Protocols for Ck interfaces for quantum key distribution networks ( <a href="#">Summary</a> )                                                           | 2025-03-16<br>2025-04-12 | A         |           |                        |           |           | A      |
| <a href="#">Q.5033</a><br><a href="#">(Q.NCMST)</a>         | Network coding multistream protocol for parallel data transmission ( <a href="#">Summary</a> )                                                          | 2025-03-16<br>2025-04-12 | A         |           |                        |           |           | A      |

Situation concerning Study Group 13 Recommendations under AAP

| Rec #Title                       |                                                                                                            | Last Call (LC) |           |           | Additional Review (AR) |           |           | Status |
|----------------------------------|------------------------------------------------------------------------------------------------------------|----------------|-----------|-----------|------------------------|-----------|-----------|--------|
|                                  |                                                                                                            | Start / End    | LC Result | LJ Result | Start / End            | AR Result | AJ Result |        |
| <a href="#">Y2086 (Y.DNI-fr)</a> | Framework and Requirements of Decentralized Trustworthy Network Infrastructure ( <a href="#">Summary</a> ) |                |           |           |                        |           |           | SG     |

## 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 |        |
| <a href="#">G.661</a>                     | Definitions and test methods for the relevant generic parameters of optical amplifier devices and subsystems ( <a href="#">Summary</a> ) | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.671</a>                     | Transmission characteristics of optical components and subsystems ( <a href="#">Summary</a> )                                            | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.672</a>                     | Characteristics of multi-degree reconfigurable optical add/drop multiplexers ( <a href="#">Summary</a> )                                 | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.695</a>                     | Optical interfaces for coarse wavelength division multiplexing applications ( <a href="#">Summary</a> )                                  | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.698.4</a>                   | Multichannel bi-directional DWDM applications with port agnostic single-channel optical interfaces ( <a href="#">Summary</a> )           | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.709.20 (2024) Amd.1</a>     | Overview of fine grain OTN - Amendment 1 ( <a href="#">Summary</a> )                                                                     | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.709.5 (2024) Cor.1</a>      | Flexible OTN short-reach interfaces - Corrigendum 1 ( <a href="#">Summary</a> )                                                          | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.709/Y.1331 (2020) Amd.4</a> | Interfaces for the optical transport network - Amendment 4 ( <a href="#">Summary</a> )                                                   | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.781 (2024) Amd.2</a>        | Synchronization layer functions for frequency synchronization based on the physical layer - Amendment 2 ( <a href="#">Summary</a> )      | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.781.1</a>                   | Synchronization layer functions for packet-based synchronization ( <a href="#">Summary</a> )                                             | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.798 (2023) Amd.3</a>        | Characteristics of optical transport network hierarchy equipment functional blocks - Amendment 3 ( <a href="#">Summary</a> )             | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.959.1 (2024) Amd.2</a>      | Optical transport network physical layer interfaces - Amendment 2 ( <a href="#">Summary</a> )                                            | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.978</a>                     | Characteristics of optical fibre submarine cables ( <a href="#">Summary</a> )                                                            | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.987.3</a>                   | 10-Gigabit-capable passive optical networks (XG-PON): Transmission convergence (TC) layer specification ( <a href="#">Summary</a> )      | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |

| Rec #                                          | Title                                                                                                                                                   | Last Call (LC)           |           |           | Additional Review (AR) |           |           | Status |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------|-----------|------------------------|-----------|-----------|--------|
|                                                |                                                                                                                                                         | Start / End              | LC Result | LJ Result | Start / End            | AR Result | AJ Result |        |
| <a href="#">G.988 (2022) Amd.2</a>             | ONU management and control interface (OMCI) specification - Amendment 2 ( <a href="#">Summary</a> )                                                     | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.989.3 (2021) Amd.2</a>           | 40-Gigabit-capable passive optical networks (NG-PON2): Transmission convergence layer specification - Amendment 2 ( <a href="#">Summary</a> )           | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.8013/Y.1731 (2023) Amd.1</a>     | Operation, administration and maintenance (OAM) functions and mechanisms for Ethernet-based networks - Amendment 1 ( <a href="#">Summary</a> )          | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.8020.3 (G.eth)</a>               | Ethernet ( <a href="#">Summary</a> )                                                                                                                    | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.8021/Y.1341 (2022) Amd. 2</a>    | Characteristics of Ethernet transport network equipment functional blocks - Amendment 2 ( <a href="#">Summary</a> )                                     | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.8023 (2018) Amd.3</a>            | Characteristics of equipment functional blocks supporting Ethernet physical layer and Flex Ethernet interfaces- Amendment 3 ( <a href="#">Summary</a> ) | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.8121/Y.1381 (2018) Amd.2</a>     | Characteristics of MPLS-TP equipment functional blocks - Amendment 2 ( <a href="#">Summary</a> )                                                        | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.8151 (2024) Amd. 1</a>           | Management aspects of the MPLS-TP network element - Amendment 1 ( <a href="#">Summary</a> )                                                             | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.8271.1/Y.1366.1 (2022) Amd.3</a> | Network limits for time synchronization in packet networks with full timing support from the network-Amendment 3 ( <a href="#">Summary</a> )            | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.8272</a>                         | Timing characteristics of primary reference time clocks ( <a href="#">Summary</a> )                                                                     | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.8272.1 (2024) Amd.1</a>          | Timing characteristics of enhanced primary reference time clocks - Amendment 1 ( <a href="#">Summary</a> )                                              | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.8272.2 (2024) Amd.1</a>          | Timing characteristics of coherent network primary reference time clocks - Amendment 1 ( <a href="#">Summary</a> )                                      | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.8273/Y.1368 (2023) Amd.1</a>     | Framework of phase and time clocks - Amendment 1 ( <a href="#">Summary</a> )                                                                            | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.8275 (2024) Amd. 2</a>           | Architecture and requirements for packet-based time and phase distribution - Amendment 2 ( <a href="#">Summary</a> )                                    | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.8310 (2020) Amd 2</a>            | Architecture of the metro transport network - Amendment 2 ( <a href="#">Summary</a> )                                                                   | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |

| Rec #                                 | Title                                                                                                                                      | Last Call (LC)           |           |           | Additional Review (AR) |           |           | Status |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------|-----------|------------------------|-----------|-----------|--------|
|                                       |                                                                                                                                            | Start / End              | LC Result | LJ Result | Start / End            | AR Result | AJ Result |        |
| <a href="#">G.8312 (2020)Amd.4</a>    | Interfaces for metro transport networks - Amendment 4 ( <a href="#">Summary</a> )                                                          | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.8321 (2022) Amd.2</a>   | Characteristics of metro transport network equipment functional blocks - Amendment 2 ( <a href="#">Summary</a> )                           | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.8371 (G.mtn-sync)</a>   | Synchronization aspects of metro transport network ( <a href="#">Summary</a> )                                                             | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.9804.1 (2019) Amd.3</a> | Higher speed passive optical networks: Requirements - Amendment 3 ( <a href="#">Summary</a> )                                              | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.9807.1 (2023) Amd.1</a> | 10-Gigabit-capable symmetric passive optical network (XGS-PON) - Amendment 1 ( <a href="#">Summary</a> )                                   | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.9943 (G.fin-NM)</a>     | High speed fibre-based in-premises transceivers - network management ( <a href="#">Summary</a> )                                           | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.9949 (G.WMCI)</a>       | WLAN management control interface (WMCI) for in-premises network ( <a href="#">Summary</a> )                                               | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.9961 (2023) Cor. 1</a>  | Unified high-speed wireline-based home networking transceivers - Data link layer specification - Corrigendum 1 ( <a href="#">Summary</a> ) | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">G.9975 (G.uvs-XR)</a>     | Technical requirements of extended reality service over in-premises networks ( <a href="#">Summary</a> )                                   | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">L.104</a>                 | Small count optical fibre cables for indoor applications ( <a href="#">Summary</a> )                                                       | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">L.341</a>                 | Maintenance of telecommunication poles and overhead facilities ( <a href="#">Summary</a> )                                                 | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |
| <a href="#">L.360</a>                 | Operations support system requirements for network infrastructure management using ID technology ( <a href="#">Summary</a> )               | 2025-04-16<br>2025-05-13 |           |           |                        |           |           | LC     |

Situation concerning Study Group 21 Recommendations under AAP

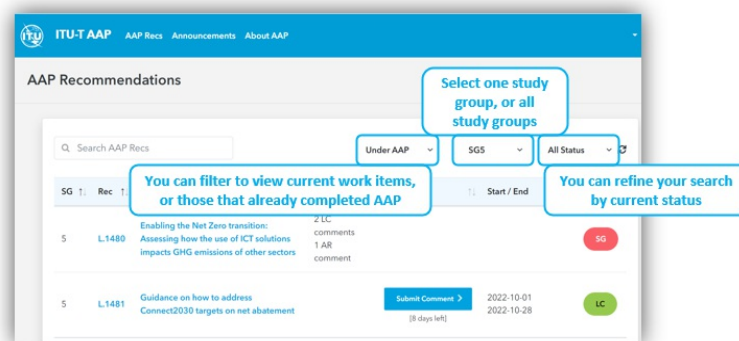
| Rec #                                       | Title                                                                                                                                                                                  | Last Call (LC)           |           |           | Additional Review (AR) |           |           | Status |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------|-----------|------------------------|-----------|-----------|--------|
|                                             |                                                                                                                                                                                        | Start / End              | LC Result | LJ Result | Start / End            | AR Result | AJ Result |        |
| <a href="#">H.222.0 v10 (H.222.0 Amd.1)</a> | Information technology - Generic coding of moving pictures and associated audio information: Systems ( <a href="#">Summary</a> )                                                       | 2025-03-16<br>2025-04-12 | A         |           |                        |           |           | A      |
| <a href="#">J.157 (J.wtv-req)</a>           | Functional Requirements for secondary distribution of digital television and audiovisual content to portable devices using the wireless local area network ( <a href="#">Summary</a> ) | 2025-03-16<br>2025-04-12 | LJ        |           |                        |           |           | LJ     |

(To TSB AAP-11)

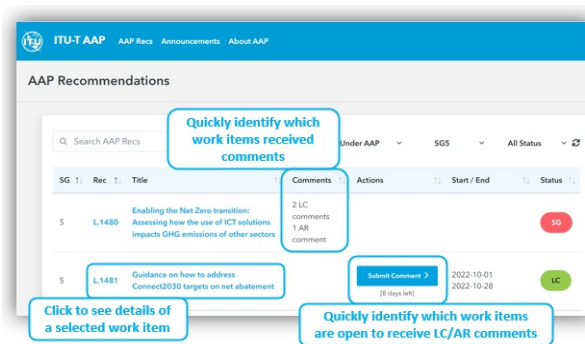
## Using the on-line comment submission form

### Comment submission

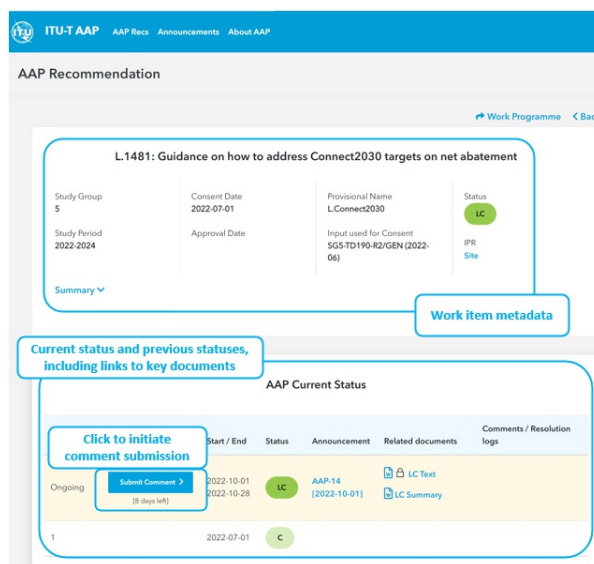
1. Go to AAP site <https://www.itu.int/t/aap/aap-recs> and select an AAP Recommendation:



- 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

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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](mailto:tsbaap@itu.int)

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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-11)

**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](mailto: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.