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| The International Teleocmmunication Union - Connecting the World. | **International telecommunication union****Telecommunication Standardization Bureau** |  |
|  | Geneva, 01 September 2020 |
| **Ref:** | **TSB Circular 267**SG20/CB | **To:**- Administrations of Member States of the Union |
| **Tel:** | +41 22 730 6301 |
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| **E-mail:** | tsbsg20@itu.int  | **Copy to:**- ITU-T Sector Members;- Associates of ITU-T Study Group 20; - ITU Academia;- The Chairman and Vice-Chairmen of ITU-T Study Group 20;- The Director of the Telecommunication Development Bureau;- The Director of the Radiocommunication Bureau |
| **Subject:** | **Member State consultation on Determined draft new Recommendations** **ITU-T** **Y.4471 (ex Y.NDA-arch), Y.4559 (ex Y.UAV-BSI) and Y.4908 (ex Y.IoT-EH-PFE), proposed for approval at the meeting of ITU-T Study Group 20 meeting (Virtual, 16 December 2020)** |
| Dear Sir/Madam,1. ITU-T Study Group 20 (SG20: Internet of things (IoT) and smart cities and communities (SC&C)) intends to apply the Traditional Approval Procedure as described in Section 9 of WTSA Resolution 1 (Rev. Hammamet, 2016) for the approval of the above-mentioned 3 draft Recommendations at its next virtual meeting planned in December 2020. The agenda and all relevant information concerning the ITU-T Study Group 20 meeting will be available in Collective letter 10/20.2. The titles, summaries and locations of the draft new Recommendations ITU-T Y.4471 (ex Y.NDA-arch), Y.4559 (ex Y.UAV-BSI) and Y.4908 (ex Y.IoT-EH-PFE), proposed for approval can be found in Annex 1.3. This Circular initiates the formal consultation with ITU Member States on whether these texts may be considered for approval at the upcoming meeting, in accordance with clause 9.4 of Resolution 1. Member States are kindly requested to complete and return the form in Annex 2 by 2359 hours UTC on **4 December 2020**.4. If 70% or more of the replies from Member States support consideration for approval, one Plenary session will be devoted to apply the approval procedure. Member States that do not assign authority to proceed should inform the Director of TSB of the reasons for this opinion and indicate the possible changes that would enable the work to progress.TSB NOTE 1– As of the date of this Circular, no IPR statements had been received by TSB regarding any of these draft texts. For up-to-date information, members are invited to consult the IPR database at [www.itu.int/ipr/](http://www.itu.int/ipr/).TSB NOTE 2 – No ITU-T A.5 justification document has been prepared for any of these determined draft texts before their determination.Yours faithfully,Chaesub LeeDirector of the TelecommunicationStandardization Bureau**Annexes: 2** |

Annex 1

Summary and location of Determined draft new Recommendations Y.4471 (ex Y.NDA-arch), Y.4559 (ex Y.UAV-BSI) and Y.4908 (ex Y.IoT-EH-PFE)

# 1 Draft new Recommendation ITU-T Y.4471 (ex Y.NDA-arch) [[R11](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-SG20-R-0011)]

## Functional architecture of network-based driving assistance for autonomous vehicles

## Summary

# This Recommendation defines a reference functional architecture of network-based driving assistance (NDA) for autonomous vehicles. It clarifies the concept of NDA, specifies key functional entities and defines reference points between entities. The use cases and operational procedures are also provided in an informative appendix.

# For improvement in the driving of autonomous vehicles, coordination between vehicles and infrastructures need to be improved with network technologies to provide the increasing transportation services and application requirements. NDA can improve the safety and efficiency of automated driving with capabilities of cooperative perception and decisions.

# 2 Draft new Recommendation ITU-T Y.4559 (ex Y.UAV-BSI) [[R12](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-SG20-R-0012)]

## Requirements and functional architecture of base station inspection services using unmanned aerial vehicles

## Summary

The changes being experienced in weather conditions and the aging of materials may cause damage to base stations, which will affect network service quality and even cause safety incidents. Network operators need to carry out timely and periodic inspection and maintenance operations. Due to the long-term, high-intensity and high-altitude nature of these operations, the base station inspection (BSI) services conducted manually are dangerous, inefficient and costly.

Unmanned aerial vehicles (UAVs) with mature flight control and sensing capabilities can be used not only in the normal working environment but also in some extreme working environments. Therefore, BSI using UAVs can replace most manual inspections through a network connection and reduce the risk of inspection and ensure the safety of personnel.

To achieve automation functions, the UAV needs to bear corresponding flight control, sensing and capturing, and communication capabilities, and it is necessary to develop a BSI supporting platform with corresponding functions to fulfil the automation and safety requirements of BSI services using UAVs.

This Recommendation describes requirements and functional architecture of BSI services using UAVs. It focuses on how to effectively provide inspection services for the base station using BSI-dedicated UAVs (BSI-UAVs).

**3 Draft new Recommendation ITU-T Y.4908 (ex Y.IoT-EH-PFE) [**[**R13**](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-SG20-R-0013)**]**

## Performance evaluation frameworks of e-health systems in the IoT

## Summary

Currently e-health systems are being implemented by governments and stakeholders to increase the effectiveness, efficiency and the quality of health care services. The Internet of things (IoT) as a relatively new technology is transforming e-health systems to further enhance health care services. However, this transformation concomitantly creates a need for effective performance evaluation frameworks of e-health systems in the IoT.

This Recommendation addresses this need for effective performance evaluation frameworks of e-health systems in the IoT and includes:

* A classification of e-health services in the IoT
* A non-exhaustive set of non-functional performance evaluation factors applicable to the e-health systems in the IoT
* Performance evaluation frameworks for e-health systems in the IoT

Annex 2

Subject: Member State response to TSB Circular 267:
Consultation on Determined draft new Recommendations ITU-T Y.4471 (ex Y.NDA-arch), Y.4559 (ex Y.UAV-BSI) and Y.4908 (ex Y.IoT-EH-PFE)

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| **To**: | Director of the Telecommunication Standardization Bureau,International Telecommunication UnionPlace des NationsCH 1211 Geneva 20, Switzerland | **From**: | [Name][Official role/title][Address] |
| **Fax**:**E-mail**: | +41-22-730-5853tsbdir@itu.int  | **Fax**:**E-mail**: |  |
|  |  | **Date**: | [Place,] [Date] |

Dear Sir/Madam,

With respect to the Member State consultation on the Determined draft texts listed in TSB Circular 267, I would like to advise you of the opinion of this Administration, which is set out in the table below.

|  | **Select one of the two boxes** |
| --- | --- |
| **Draft new Recommendations ITU-T Y.4471 (ex Y.NDA-arch)** | [ ]  **assigns authority** to Study Group 20 to consider this text for approval (in which case, select one of the two options ⃝):⃝ No comments or suggested changes⃝ Comments and suggested changes are attached |
| [ ]  **does not assign authority** to Study Group 20 to consider this text for approval (reasons for this opinion and an outline of possible changes that would enable the work to progress are attached) |
| **Draft new Recommendations ITU-T Y.4559 (ex Y.UAV-BSI)** | [ ]  **assigns authority** to Study Group 20 to consider this text for approval (in which case, select one of the two options ⃝):⃝ No comments or suggested changes⃝ Comments and suggested changes are attached |
| [ ]  **does not assign authority** to Study Group 20 to consider this text for approval (reasons for this opinion and an outline of possible changes that would enable the work to progress are attached) |
| **Draft new Recommendations ITU-T Y.4908 (ex Y.IoT-EH-PFE)** | [ ]  **assigns authority** to Study Group 20 to consider this text for approval (in which case, select one of the two options ⃝):⃝ No comments or suggested changes⃝ Comments and suggested changes are attached |
| [ ]  **does not assign authority** to Study Group 20 to consider this text for approval (reasons for this opinion and an outline of possible changes that would enable the work to progress are attached) |

Yours faithfully,

[Name]

[Official role/title]

Administration of [Member State]

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