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| The International Teleocmmunication Union - Connecting the World. | | **International telecommunication union**  **Telecommunication Standardization Bureau** | |  |
|  | | | Geneva, 08 July 2021 | |
| **Ref:** | **TSB Circular 332**  SG20/CB | | **To:**  - Administrations of Member States of the Union  **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 | |
| **Tel:** | +41 22 730 6301 | |
| **Fax:**  **E-mail:** | +41 22 730 5853  [tsbsg20@itu.int](mailto:tsbsg20@itu.int) | |
| **Subject:** | **Member State consultation on Determined draft new Recommendations**  **ITU-T** **Y.4421 (ex Y.UAV.arch) and Y.4809 (ex Y.IoT-ITS-ID), proposed for approval at the meeting of ITU-T Study Group 20 (Virtual, 11-21 October 2021)** | | | |
| 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 2 draft Recommendations at its next virtual meeting planned in October 2021. The agenda and all relevant information concerning the ITU-T Study Group 20 meeting will be available in Collective letter 12/20.  2. The titles, summaries and locations of the draft new Recommendations ITU-T Y.4421 (ex Y.UAV.arch) and Y.4809 (ex Y.IoT-ITS-ID), 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 **29 September 2021**.  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 Lee Director of the Telecommunication Standardization Bureau  **Annexes:** 2 | | | | |

Annex 1

Summary and location of Determined draft new Recommendations ITU-T Y.4421 (ex Y.UAV.arch) and Y.4809 (ex Y.IoT-ITS-ID)

# 1 Draft new Recommendation ITU-T Y.4421 (ex Y.UAV.arch) [[R17](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-SG20-R-0017)]

## Functional architecture for unmanned aerial vehicles and unmanned aerial vehicle controllers using IMT-2020 networks

## Summary

Widely-used civilian unmanned aerial vehicles (UAVs) generate increasing requirements for communication and network capabilities, including seamless coverage, low latency, Gbps-level rate and high-accuracy positioning. Existing commercial products of civilian UAVs utilize a direct radio link, which is limited by service distance and quality. Therefore IMT-2020 can be employed for UAV communication. UAVs require simultaneous services with different characters, for which a brand new type of user terminal to IMT-2020 is required. Likewise, IMT-2020 is a novel communication network to UAVs since it is originally designed for ground coverage. With the purpose of implementing the support of civilian UAV operations in IMT-2020 networks and improving quality of UAV application services, a set of functionalities is needed to bridge the gap for interoperation between UAS and IMT-2020 networks. This Recommendation provides a functional architecture for UAVs and UAV controllers using IMT-2020 networks and functionalities defined in the application layer, service and application support layer, and security capabilities. The motivation of this Recommendation is to solve the issues of civilian UAVs accessing and communicating in IMT-2020 networks using its transmission capabilities.

# 2 Draft new Recommendation ITU-T Y.4809 (ex Y.IoT-ITS-ID) [[R18](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-SG20-R-0018)]

## Unified IoT Identifiers for intelligent transport systems

## Summary

Recommendation ITU-T Y.4809 defines field formats for identifying road signs and signals, and identifies specific values for identifiers of such signs and signals.

Annex 2

Subject: Member State response to TSB Circular 332:  
Consultation on Determined draft new Recommendations ITU-T Y.4421 (ex Y.UAV.arch) and Y.4809 (ex Y.IoT-ITS-ID)

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| **To**: | Director of the  Telecommunication Standardization Bureau,  International Telecommunication Union  Place des Nations  CH 1211 Geneva 20, Switzerland | **From**: | [Name]  [Official role/title]  [Address] |
| **Fax**:  **E-mail**: | +41-22-730-5853  [tsbdir@itu.int](mailto:tsbdir@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 332, 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.4421 (ex Y.UAV.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 changes  ⃝ 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.4809 (ex Y.IoT-ITS-ID)** | **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 changes  ⃝ 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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