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| The International Teleocmmunication Union - Connecting the World. | | **International telecommunication union**  **Telecommunication Standardization Bureau** | |  |
|  | | | Geneva, 27 October 2021 | |
| **Ref:** | **TSB Circular 355**  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.4214 (ex Y.IoT-CEIHMon-Reqts) and Y.4215 (ex Y.IoT-UAS-Reqts), proposed for approval at the meeting of ITU-T Study Group 20 (Virtual, 03 February 2022)** | | | |
| 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 February 2022. The agenda and all relevant information concerning the ITU-T Study Group 20 meeting will be available in Collective letter 13/20.  2. The titles, summaries and locations of the draft new Recommendations ITU-T Y.4214 (ex Y.IoT-CEIHMon-Reqts) and Y.4215 (ex Y.IoT-UAS-Reqts), 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 **24 January 2022**.  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.4214 (ex Y.IoT-CEIHMon-Reqts) and Y.4215 (ex Y.IoT-UAS-Reqts)

# 1 Draft new Recommendation ITU-T Y.4214 (ex Y.IoT-CEIHMon-Reqts): [[R20](https://www.itu.int/md/T17-SG20-R-0020/en)]

## Requirements of IoT-based civil engineering infrastructure health monitoring system

## Summary

Monitoring the safety and integrity of civil engineering infrastructures using objective data collected from the infrastructures themselves with Internet of things (IoT) capabilities is an effective means to supplement inspection and diagnosis for advanced and efficient maintenance work on civil engineering infrastructures. In this Recommendation, an IoT-based system for this purpose is called a civil engineering infrastructure health monitoring system.

This Recommendation describes the requirements specific to the IoT-based civil engineering infrastructure health monitoring system for the purpose of maintaining civil engineering infrastructures.

# 2 Draft new Recommendation ITU-T Y.4215 (ex Y.IoT-UAS-Reqts) [[R21](https://www.itu.int/md/T17-SG20-R-0021/en)]

## Use cases, requirements and capabilities of unmanned aircraft systems for the Internet of Things

## Summary

This Recommendation describes the use cases, requirements and capabilities of unmanned aircraft systems (UASs) for the Internet of things (IoT).

According to different wireless communication scenarios, the use cases are classified in four categories: UAS-aided offloading, UAS-aided emergency response, UAS-aided relaying and UAS-aided information dissemination and data collection.

Common and specific requirements and capabilities of UASs for IoT support of the different use cases are described in this Recommendation.

Annex 2

Subject: Member State response to TSB Circular 355:  
Consultation on Determined draft new Recommendations ITU-T Y.4214 (ex Y.IoT-CEIHMon-Reqts) and Y.4215 (ex Y.IoT-UAS-Reqts)

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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 355, 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 Recommendation ITU-T Y.4214 (ex Y.IoT-CEIHMon-Reqts)** | **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 Recommendation ITU-T Y.4215 (ex Y.IoT-UAS-Reqts)** | **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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