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| The International Teleocmmunication Union - Connecting the World. | **International telecommunication union****Telecommunication Standardization Bureau** |  |
|  | Geneva, 7 October 2024 |
| **Ref:** | TSB Circular 234SG16/SC | **To:**- Administrations of Member States of the Union- ITU-T Sector Members;- Associates of ITU-T Study Group 16;- ITU Academia; |
| **Tel:** | +41 22 730 6805 |
| **Fax:** | +41 22 730 5853 |
| **E-mail:** | tsbsg16@itu.int | **Copy to:**- The Chair and Vice-chairs of ITU-T Study Group 16;- The Director of the Telecommunication Development Bureau;- The Director of the Radiocommunication Bureau |
| **Subject:** | **Member State consultation on Determined draft Recommendations ITU-T F.743.27 (ex F.IVSP-PGI) and ITU-T F.743.28 (ex F.RIIS-CEC) proposed for approval at the ITU-T Study Group C (consolidation of SG9 and SG16) meeting (planned in Geneva, 13-24 January 2025)** |
| Dear Sir/Madam,1 Working Party 3 of ITU-T Study Group 16 agreed to start the approval process for the above‑mentioned draft Recommendations according to Section 9 of WTSA Resolution 1 (Rev. Geneva, 2022). Accordingly, they will be considered for approval at the meeting of ITU-T Study Group C (consolidation of SG9 and SG16) that is scheduled to take place in Geneva, from 13 to 24 January 2025. The agenda and all relevant information concerning the ITU‑T Study Group C meeting will be available in the respective study group collective letter to be issued soon.2 The title, summary, and location of the draft ITU-T Recommendations proposed for approval can be found in **Annex 1**.NOTE 1 – No ITU-T A.5 justification is currently needed for these draft Recommendations.3 This Circular initiates the formal consultation with ITU Member States on whether these text 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 **2 January 2025**, 2359 hours UTC**.**4 If 70% or more of the replies from Member States support consideration for approval, one Plenary session will be devoted to applying 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.Yours faithfully,Seizo OnoeDirector of the TelecommunicationStandardization Bureau |

**Annexes:** 2

Annex 1

Summary and location of Determined draft Recommendations
ITU-T F.743.27 (ex F.IVSP-PGI) and ITU-T F.743.28 (ex F.RIIS-CEC)

# 1 Draft new Recommendation ITU-T F.743.27 (ex F.IVSP-PGI) [[SG16-R29](https://www.itu.int/md/T22-SG16-R-0029/en)]

**Requirements and framework of intelligent video surveillance platform for power grid infrastructure**

## Summary

Video surveillance has been widely utilized in various scenarios within the power sector, including transmission, transformation, distribution, equipment inspection, safety supervision, official business, and data centres. However, as the number of surveillance devices and monitoring scenarios increases, video surveillance encounters challenges such as a limited communication network bandwidth and difficulties in managing the large volume of device connections. The integration of artificial intelligence technologies into the video surveillance platform significantly enhances the efficiency of real-time data analysis. By extending intelligence to the edge of the network through model training and distribution, this intelligent platform enables proactive threat detection and more efficient resource allocation for the power grid infrastructure, particularly in remote areas with sparse populations, unattended facilities and poor wireless signal conditions. This advancement ensures a comprehensive oversight and protection of critical assets, thereby enhancing the overall security and reliability of power grid infrastructures.

This Recommendation specifies the requirements and reference framework of intelligent video surveillance platforms for power grid infrastructure.

# 2 Draft new Recommendation ITU-T F.743.28 (ex F.RIIS-CEC) [[SG16-R30](https://www.itu.int/md/T22-SG16-R-0030/en)]

**Functional framework and requirements for intelligent inspection system based on cloud-edge-device collaboration in smart grids**

## Summary

The intelligent inspection system is helpful to assist humans in inspection work, offering advantages such as high efficiency and low operation and maintenance costs. It is widely used in scenarios such as inspection of power stations, substations, and transmission lines. However, the inspection data transmitted to the cloud is accompanied by challenges such as huge volumes, high complexity, long storage cycles, and high computing frequency. Additionally, many substations and transmission lines are located in remote areas, where network connections are often poor, and the ability to properly inspect in harsh environments needs to be taken into consideration. An intelligent inspection system based on cloud-edge-device collaboration could address these challenges.

This Recommendation specifies a functional framework, requirements and use cases for the intelligent inspection system based on cloud-edge-device collaboration in smart grid. It provides guidance for the utilization of, and selection of the right inspection system for a specific application. It can also supply a new collaboration paradigm to existing standards in smart grid.

Annex 2

Subject: Member State response to TSB Circular 234:
Consultation on Determined draft Recommendations
ITU-T F.743.27 (ex F.IVSP-PGI) and ITU-T F.743.28 (ex F.RIIS-CEC)

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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**: | +41-22-730-5853 | **Fax**: |  |
| **E-mail**: | tsbdir@itu.int  | **E-mail**: |  |
|  |  | **Date**: | [Place,] [Date] |

Dear Sir/Madam,

With respect to the Member State consultation on the Determined draft texts listed in TSB Circular 234, 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 F.743.27 (ex F.IVSP-PGI)** | [ ]  **assigns authority** to Study Group C (consolidation of ITU-T SG9 and SG16) 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 C 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 F.743.28 (ex F.RIIS-CEC)** | [ ]  **assigns authority** to Study Group C (consolidation of ITU-T SG9 and SG16) 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 C 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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