



Question(s): 3/15

Montreal, 29 June – 10 July 2026

LS
(Ref.: TD238/PLEN)

Source: ITU-T Study Group 15

Title: LS to inform the start of a study on in-vehicle optical network based on FIP technologies

LIAISON STATEMENT

For action to:

For information to: ITU-T SG20, IEEE 802.3, ISO TC22 SC32, IEC TC86, OpenAlliance

Approval: ITU-T SG15 meeting (Montreal, 10 July 2026)

Deadline:

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Abstract: Outgoing liaison to inform the start of a study on in-vehicle optical network based on FIP technologies

ITU-T Q3/15 would like to inform you about the initiation of a new draft Technical Report, ITU-T GSTR-IVON with title "*Use cases and gap analysis of In-Vehicle Optical Networks based on FIP technologies*" during the recent ITU-T Study Group 15 meeting held in Montreal from 29 June to 10 July 2026.

The primary objective of this Technical Report is to investigate the feasibility of applying Fibre-based In-premises (FIP) network technologies (e.g. G.fin, G.Xfin) specified in ITU-T Q3/15 to in-vehicle communication environments. The scope of this project includes:

1. Analysis of use cases & networking requirement of in-vehicle optical networks
2. Feasibility study on the possible use of fiber-based in-premises networks (such as G.fin/G.Xfin) in in-vehicle optical networks.
3. Study of network architectures based on FIP network for in-vehicle optical network
4. Gap analysis of the technical developments that would be needed to adapt a FIP-based solution to the new environment
5. Identification of collaborations to any possible adaptation of the technology to the new environment.
6. Identification of next challenges and technical directions for further study

This technical report will be used to initiate discussions and collaborations with the relevant stakeholders and experts for a possible implementation of the changes needed to adapt the technology. Specifically, the report will identify the changes that may be needed in the transceiver (Q3-related) and those that would need specific expertise and collaboration with other SDOs (packaging, cables, etc.)

ITU-T Q3/15 look forward to a fruitful collaboration with you and is willing to align the technology changes (Q3 related) that could be necessary. In this sense, we look forward for further exchanges in the future.

The next ITU-T Q3/15 interim meeting will take place in Xi'an, China (26-30, October 2026)
