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| The International Teleocmmunication Union - Connecting the World. | **International telecommunication union****Telecommunication Standardization Bureau** |  |
|  | Geneva, 17 September 2024 |
| **Ref:** | **Revision 1 toTSB Circular 219** | **To:**- Administrations of Member States of the Union;- ITU-T Sector Members;- ITU-T Associates;- ITU Academia**Copy to:**- The Chairs and Vice-Chairs of Study Groups;- The Director of the Telecommunication Development Bureau;- The Director of the Radiocommunication Bureau |
| **Tel:** | +41 22 730 5415 |
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| **Subject:** | **ITU-T Study Group 9 survey on “use cases of hybrid cable network and cable IPTV services”** |

Dear Sir/Madam,

At the recent [ITU-T Study Group 9 (SG9)](https://www.itu.int/en/ITU-T/studygroups/2022-2024/09/Pages/default.aspx) meeting held online from 9 to 17 May 2024, the meeting identified two critical actions that require your valuable input and expertise. Your active participation is essential to drive progress in the following two areas:

**1) Support of SG9 work led by Question 4 (**[[**Q4/9**](https://www.itu.int/net4/ITU-T/lists/q-text.aspx?Group=9&Period=17&QNo=4&Lang=en)](https://www.itu.int/net4/ITU-T/lists/q-text.aspx?Group=9&Period=17&QNo=4&Lang=en)**) dedicated to developing guidelines specifically dedicated to developing countries to implement and deploy digital cable television networks**

To advance these studies, SG9 would like to encourage experts from developing countries to engage with the work of [Q4/9](https://www.itu.int/net4/ITU-T/lists/q-text.aspx?Group=9&Period=17&QNo=4&Lang=en) on *"Guidelines for implementations and deployment of transmission of multichannel digital television signals over optical access networks and Hybrid Fibre-Coaxial (HFC)"*.

During SG9 meeting in Tokyo (2-10 September 2024), we identified that an important clarification is needed. Hybrid fibre network uses optical fibre cable to some point in the access network, such as curb (FTTC) or sub-centre/node (FTTN), where the fibre is connected to the metallic cable (with VDSL and G.fast) to each individual houses. However, fibre to the building (FTTB) connected to in-building metallic cable is not considered as a hybrid cable network.

Specifically, SG9 seeks contributions related to use cases of hybrid cable networks

These contributions will help progress the following Supplement that is currently being developed by [Q4/9](https://www.itu.int/net4/ITU-T/lists/q-text.aspx?Group=9&Period=17&QNo=4&Lang=en):

• [J Sup11 (Rev)](https://www.itu.int/ITU-T/workprog/wp_item.aspx?isn=18513) *“Guidelines for installing a digital television service for cable networks based on ITU‑T Recommendations”*.
[latest draft: [SG9-TD880/GEN (2024-09)](https://www.itu.int/md/T22-SG09-240902-TD-GEN-0880/en)]

**2) Support the collection of cable IPTV services use cases**

To advance these studies, SG9 would like to encourage experts from both developed and developing countries to submit use cases of cable IPTV services. These submissions will be included in Appendix III of the following draft Recommendation which is currently being developed by [Q1/9](https://www.itu.int/net4/ITU-T/lists/q-text.aspx?Group=9&Period=17&QNo=1&Lang=en):

• [J.cable-rf-to-ip](https://www.itu.int/ITU-T/workprog/wp_item.aspx?isn=18507) "*Requirements of cable television system for migration from RF to IP*".
[latest draft: [[SG9-TD735/GEN (2024-05)](https://www.itu.int/md/T22-SG09-240509-TD-GEN-0735)]

Your insights and contributions are invaluable to our ongoing efforts.

To follow up on this request two options are available:

1. Please submit member contributions to the following ITU-T Study Group C (consolidation of SG9 and SG16) meetings. The first one is planned in January 2025.
2. Please respond by **end of July 2025** (or at your earliest convenience) to the survey available in the [Annex](#_ANNEX).
	* Responses should be submitted via email to ITU-T SG9 Secretariat at tsbsg9@itu.int , with subject (SG9 survey: “source of the response”)

I encourage you to take the time to respond to this survey and/or submit applicable contributions to the upcoming SGC (Consolidation of SG9 and SG16) meeting in Geneva, Switzerland (planned 13-24 January 2025).

Yours faithfully,

Seizo Onoe
Director of the Telecommunication
Standardization Bureau

**Annex:** 1

# ANNEX

# Survey on “Use Cases of Hybrid Cable Network and Cable IPTV Services”

* **What is the penetration of cable TV services in your country?**

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* **What infrastructure is used to connect the last mile of your cable TV networks?**

[ ]  **Option 1 – All fibre (FTTH)**

[ ]  **Option 2 – HFC (Hybrid coaxial Cable): fibre + coaxial cable**

[ ]  **Option 3 – Hybrid cable network: fibre to the curb (FTTC) + copper (metallic) pairs**

[ ]  **Option 4 – Others (please clarify)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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* **If you have chosen (Option 3) on the previous question, please clarify further:**
	+ **What technology is used over the copper (metallic) connection?
	(such as ADSL, VDSL, G.fast …)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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* **What is the type of Cable IPTV Services in your country?**

[ ]  **Option 1 – Linear (multicast)**

[ ]  **Option 2 – Linear (unicast)**

[ ]  **Option 3 – Non-Linear such as Video on Demand (unicast)**

[ ]  **Option 4 – Others (please clarify)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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* **Please provide any additional information that may help ITU-T SG9 advance studies on these topics
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