



## GROUP SPECIFICATION

### **Fifth Generation Fixed Network (F5G); F5G Advanced Technology Requirements and Gap Analyses; Release 4**

Sample Document

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**ETSI**

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650 Route des Lucioles  
F-06921 Sophia Antipolis Cedex - FRANCE

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Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - APE 7112B  
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# Foreword

This Group Specification (GS) has been produced by ETSI Industry Specification Group (ISG) Fifth Generation Fixed Network (F5G).

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# Modal verbs terminology

In the present document **"shall"**, **"shall not"**, **"should"**, **"should not"**, **"may"**, **"need not"**, **"will"**, **"will not"**, **"can"** and **"cannot"** are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

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# 1 Scope

The present document specifies the technology requirements for F5G-A use cases releases 3 and 4, and explores existing technologies from related SDOs. The present document performs gap analyses between the technologies required by the use cases and those that are available. The identification of the relevant SDOs is based on their existing projects.

# 2 References

## 2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

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NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long-term validity.

The following referenced documents are necessary for the application of the present document.

- [1] [Recommendation ITU-T G.709/Y.1331](#): "Interfaces for the optical transport network".
- [2] [Recommendation ITU-T G.709.20](#): "Overview of fine grain OTN".
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- [21] [ETSI GS F5G 015 \(V1.2.1\)](#): "Fifth Generation Fixed Network (F5G); F5G Residential Services Quality Evaluation and Classification Release 2".
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- [24] [ISO/IEC 14496-10:2025](#): "Information technology — Coding of audio-visual objects — Part 10: Advanced video coding".
- [25] [Recommendation ITU-T G.698.2](#): "Amplified multichannel dense wavelength division multiplexing applications with single channel optical interfaces".
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- [49] [Recommendation ITU-T G.657 \(08/2024\)](#): "Characteristics of a bending-loss insensitive single-mode optical fibre and cable".
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## 2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

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The following referenced documents may be useful in implementing an ETSI deliverable or add to the reader's understanding, but are not required for conformance to the present document.

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- [i.2] IETF RFC 3945: "Generalized Multi-Protocol Label Switching (GMPLS) Architecture".
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- [i.7] IETF draft-ietf-ccamp-otn-tunnel-model: "OTN Tunnel YANG Model".
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