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GROUP SPECIFICATION

Fifth Generation Fixed Network (F5G); F5G Advanced End-to-End Management and Control; Release 4

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Foreword

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1 Scope

The present document focuses on the management and control aspects of the F5G Advanced End-to-End (E2E) network architecture ETSI GS F5G 024 [1]. The present document specifies the End-to-End management and control architecture and its related interfaces, including:

- The technical requirements and functional blocks of the domain controllers and the E2E orchestrator in the F5G Advanced networks (Customer Premises Network (CPN), Access Network and Aggregation Network);
- The technical requirements and interface parameters of the northbound interfaces of the domain controllers of the CPN, the Access Network, the Aggregation Network, the Core Network, and the E2E orchestrator.

NOTE: The technical requirements and functional blocks of the Core Network Controller is out of scope of the present document. However, it is part of the management architecture and interface.

ETSI GS F5G 006 [i.9] defines the management and control aspects of the F5G End-to-End network (ETSI GS F5G 004 [i.7]). The present document makes further extensions and enhancements to ETSI GS F5G 006 [i.9], to support the management and control of the new and enhanced features of the F5G Advanced.

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] [ETSI GS F5G 024 \(V1.1.1\)](#): "Fifth Generation Fixed Network (F5G); F5G Advanced Network Architecture Release 3".
- [2] [IETF RFC 8795](#): "YANG Data Model for Traffic Engineering (TE) Topologies".
- [3] [ETSI GS ZSM 002 \(V1.1.1\)](#): "Zero-touch network and Service Management (ZSM); Reference Architecture".
- [4] [IETF RFC 8453](#): "Framework for Abstraction and Control of TE Networks (ACTN)".
- [5] [IETF RFC 8346](#): "A YANG Data Model for Layer 3 Topologies".
- [6] [IETF RFC 8944](#): "A YANG Data Model for Layer 2 Network Topologies".
- [7] [IETF RFC 8299](#): "YANG Data Model for L3VPN Service Delivery".
- [8] [IETF RFC 8466](#): "A YANG Data Model for Layer 2 Virtual Private Network (L2VPN) Service Delivery".
- [9] [Recommendation ITU-T G.9940 \(12/2023\)](#): "High speed fibre-based in-premises transceivers - system architecture".
- [10] [Recommendation ITU-T G.9943 \(10/2025\)](#): "High speed fibre-based in-premises transceivers - Network Management".