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Foreword

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1 Scope

The present document specifies the stage 3 protocol and data model for the Namf Service Based Interface. It provides stage 3 protocol definitions and message flows, and specifies the API for each service offered by the AMF.

The 5G System stage 2 architecture and procedures are specified in 3GPP TS 23.501 [2] and 3GPP TS 23.502 [3].

The Technical Realization of the Service Based Architecture and the Principles and Guidelines for Services Definition are specified in 3GPP TS 29.500 [4] and 3GPP TS 29.501 [5].

2 References

- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 23.501: "System Architecture for the 5G System; Stage 2".
- [3] 3GPP TS 23.502: "Procedures for the 5G System; Stage 2".
- [4] 3GPP TS 29.500: "5G System; Technical Realization of Service Based Architecture; Stage 3".
- [5] 3GPP TS 29.501: "5G System; Principles and Guidelines for Services Definition; Stage 3".
- [6] 3GPP TS 29.571: "5G System; Common Data Types for Service Based Interfaces Stage 3".
- [7] 3GPP TS 23.503: "Policy and Charging Control Framework for the 5G System; Stage 2".
- [8] IETF RFC 8259: "The JavaScript Object Notation (JSON) Data Interchange Format".
- [9] IETF RFC 2387: "The MIME Multipart/Related Content-type".
- [10] IETF RFC 2045: "Multipurpose Internet Mail Extensions (MIME) Part One: Format of Internet Message Bodies".
- [11] 3GPP TS 24.501: "Non-Access-Stratum (NAS) Protocol for 5G System (5GS); Stage 3".
- [12] 3GPP TS 38.413: "NG Radio Access Network (NG-RAN); NG Application Protocol (NGAP)".
- [13] 3GPP TS 36.355: "Evolved Universal Terrestrial Radio Access (E-UTRA); LTE Positioning Protocol (LPP)".
- [14] IETF RFC 6902: "JavaScript Object Notation (JSON) Patch".
- [15] 3GPP TS 24.007: "Mobile radio interface signalling layer 3; General Aspects".
- [16] 3GPP TS 29.502: "5G System, Session Management Services; Stage 3".
- [17] 3GPP TS 38.455: "NR Positioning Protocol A (NRPPa)".
- [18] 3GPP TS 29.531: "Network Slice Selection Services; Stage 3".
- [19] IETF RFC 7540: "Hypertext Transfer Protocol Version 2 (HTTP/2)".
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- [21] 3GPP TS 29.168: "Cell Broadcast Centre interfaces with the Evolved Packet Core; Stage 3".
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- [23] OpenAPI Initiative, "OpenAPI 3.0.0 Specification", <https://github.com/OAI/OpenAPI-Specification/blob/master/versions/3.0.0.md>.
- [24] 3GPP TS 36.413: "Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 Application Protocol (S1AP)".
- [25] 3GPP TS 29.572: "5G System, Location Management Services; Stage 3".