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**5G;
5G System;
Common Data Types for Service Based Interfaces;
Stage 3
(3GPP TS 29.571 version 16.14.0 Release 16)**

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Contents

Intellectual Property Rights	7
Legal Notice	7
Modal verbs terminology.....	7
Foreword.....	8
1 Scope	9
2 References	9
3 Definitions and abbreviations.....	11
3.1 Definitions	11
3.2 Abbreviations	11
4 Overview	11
5 Common Data Types.....	11
5.1 Introduction	11
5.2 Data Types for Generic Usage	12
5.2.1 Introduction.....	12
5.2.1A Re-used Data Types	12
5.2.2 Simple Data Types.....	12
5.2.3 Enumerations	17
5.2.3.1 Enumeration: PatchOperation	17
5.2.3.2 Enumeration: UriScheme	17
5.2.3.3 Enumeration: ChangeType.....	17
5.2.3.4 Enumeration: HttpMethod	17
5.2.3.5 Enumeration: NullValue	18
5.2.4 Structured Data Types	18
5.2.4.1 Type: ProblemDetails.....	18
5.2.4.2 Type: Link.....	19
5.2.4.3 Type: PatchItem	19
5.2.4.4 Type: LinksValueSchema	19
5.2.4.5 Type: SelfLink	19
5.2.4.6 Type: InvalidParam	20
5.2.4.7 Type: LinkRm	20
5.2.4.8 Type: ChangeItem.....	21
5.2.4.9 Type: NotifyItem.....	21
5.2.4.10 Type: ComplexQuery.....	22
5.2.4.11 Type: Cnf	22
5.2.4.12 Type: Dnf.....	22
5.2.4.13 Type: CnfUnit	22
5.2.4.14 Type: DnfUnit.....	22
5.2.4.15 Type: Atom	23
5.2.4.16 Void.....	23
5.2.4.17 Type: PatchResult	23
5.2.4.18 Type: ReportItem	23
5.2.4.19 Type: HalTemplate.....	23
5.2.4.20 Type: Property.....	24
5.2.4.21 Type: RedirectResponse.....	24
5.3 Data Types related to Subscription, Identification and Numbering	24
5.3.1 Introduction.....	24
5.3.2 Simple Data Types.....	24
5.3.3 Enumerations	28
5.3.4 Structured Data Types	28
5.3.4.1 Type: Guami	28
5.3.4.2 Type: NetworkId	28
5.3.4.3 Type: GuamiRm.....	28
5.4 Data Types related to 5G Network.....	29

5.4.1	Introduction.....	29
5.4.2	Simple Data Types.....	29
5.4.3	Enumerations	35
5.4.3.1	Enumeration: AccessType	35
5.4.3.2	Enumeration: RatType	36
5.4.3.3	Enumeration: PduSessionType	36
5.4.3.4	Enumeration: UpIntegrity	36
5.4.3.5	Enumeration: UpConfidentiality	36
5.4.3.6	Enumeration: SscMode	37
5.4.3.7	Enumeration: DnaiChangeType	37
5.4.3.8	Enumeration: RestrictionType	37
5.4.3.9	Enumeration: CoreNetworkType	37
5.4.3.10	Enumeration: AccessTypeRm.....	37
5.4.3.11	Enumeration: RatTypeRm	38
5.4.3.12	Enumeration: PduSessionTypeRm.....	38
5.4.3.13	Enumeration: UpIntegrityRm.....	38
5.4.3.14	Enumeration: UpConfidentialityRm	38
5.4.3.15	Enumeration: SscModeRm	38
5.4.3.17	Enumeration: DnaiChangeTypeRm	38
5.4.3.18	Enumeration: RestrictionTypeRm.....	38
5.4.3.19	Enumeration: CoreNetworkType	38
5.4.3.20	Enumeration: PresenceState	38
5.4.3.21	Enumeration: StationaryIndication	39
5.4.3.22	Enumeration: StationaryIndicationRm.....	39
5.4.3.23	Enumeration: ScheduledCommunicationType.....	39
5.4.3.24	Enumeration: ScheduledCommunicationTypeRm.....	39
5.4.3.25	Enumeration: TrafficProfile	39
5.4.3.26	Enumeration: TrafficProfileRm	39
5.4.3.27	Enumeration: LcsServiceAuth	40
5.4.3.28	Enumeration: UeAuth	40
5.4.3.29	Enumeration: DlDataDeliveryStatus.....	40
5.4.3.30	Enumeration: DlDataDeliveryStatusRm	40
5.4.3.31	Void.....	40
5.4.3.32	Enumeration: AuthStatus	41
5.4.3.33	Enumeration: LineType	41
5.4.3.34	Enumeration: LineTypeRm.....	41
5.4.3.35	Enumeration: LineType	41
5.4.3.36	Enumeration: LineTypeRm.....	41
5.4.3.37	Enumeration: TransportProtocol	41
5.4.4	Structured Data Types	42
5.4.4.1	Type: SubscribedDefaultQos	42
5.4.4.2	Type: Snssai	42
5.4.4.3	Type: PlmnId.....	43
5.4.4.4	Type: Tai	43
5.4.4.5	Type: Ecgi	43
5.4.4.6	Type: Ncgi.....	44
5.4.4.7	Type: UserLocation.....	44
5.4.4.8	Type: EutraLocation.....	45
5.4.4.9	Type: NrLocation.....	46
5.4.4.10	Type: N3gaLocation.....	47
5.4.4.11	Type: UpSecurity	49
5.4.4.12	Type: NgApCause	49
5.4.4.13	Type: BackupAmfInfo	49
5.4.4.14	Type: RefToBinaryData.....	50
5.4.4.15	Type RouteToLocation	50
5.4.4.16	Type RouteInformation.....	50
5.4.4.17	Type: Area.....	50
5.4.4.18	Type: ServiceAreaRestriction	51
5.4.4.19	Type: PlmnIdRm.....	51
5.4.4.20	Type: TaiRm	51
5.4.4.21	Type: EcgiRm	51
5.4.4.22	Type: NcgiRm.....	51

5.4.4.23	Type: EutraLocationRm	51
5.4.4.24	Type: NrLocationRm	51
5.4.4.25	Type: UpSecurityRm	51
5.4.4.26	Type: RefToBinaryDataRm	52
5.4.4.27	Type: PresenceInfo	52
5.4.4.28	Type: GlobalRanNodeId	53
5.4.4.29	Type: GNBId	54
5.4.4.30	Type: PresenceInfoRm	54
5.4.4.31	Void	54
5.4.4.32	Type: AtsssCapability	55
5.4.4.33	Type: PlmnIdNid	55
5.4.4.34	Type: PlmnIdNidRm	55
5.4.4.35	Type: SmallDataRateStatus	56
5.4.4.36	Type: HfcNodeId	56
5.4.4.37	Type: HfcNodeIdRm	56
5.4.4.38	Type: WirelineArea	57
5.4.4.39	Type: WirelineServiceAreaRestriction	57
5.4.4.40	Type: ApnRateStatus	58
5.4.4.41	Type: ScheduledCommunicationTime	58
5.4.4.42	Type: ScheduledCommunicationTimeRm	58
5.4.4.43	Type: BatteryIndication	59
5.4.4.44	Type: BatteryIndicationRm	59
5.4.4.45	Type: AcsInfo	59
5.4.4.46	Type: AcsInfoRm	59
5.4.4.47	Type: NrV2xAuth	59
5.4.4.48	Type: LteV2xAuth	60
5.4.4.49	Type: Pc5QoSPara	60
5.4.4.50	Type: Pc5QosFlowItem	60
5.4.4.51	Type: Pc5FlowBitRates	60
5.4.4.52	Type: UtraLocation	61
5.4.4.53	Type: GeraLocation	62
5.4.4.54	Type: CellGlobalId	62
5.4.4.55	Type: ServiceAreaId	63
5.4.4.56	Type: LocationAreaId	63
5.4.4.57	Type: RoutingAreaId	63
5.4.4.58	Type: DddTrafficDescriptor	63
5.4.4.59	Type: MoExpDataCounter	63
5.4.4.60	Type: NssaaStatus	64
5.4.4.61	Type: NssaaStatusRm	64
5.4.4.62	Type: TnapId	64
5.4.4.63	Type: TnapIdRm	64
5.4.4.64	Type: TwapId	65
5.4.4.65	Type: TwapIdRm	65
5.4.4.66	Type: SnssaiExtension	65
5.4.4.67	Type: SdRange	65
5.4.5	Data types describing alternative data types or combinations of data types	66
5.4.5.1	Type: ExtSnssai	66
5.5	Data Types related to 5G QoS	66
5.5.1	Introduction	66
5.5.2	Simple Data Types	66
5.5.3	Enumerations	69
5.5.3.1	Enumeration: PreemptionCapability	69
5.5.3.2	Enumeration: PreemptionVulnerability	69
5.5.3.3	Enumeration: ReflectiveQosAttribute	70
5.5.3.4	Void	70
5.5.3.5	Enumeration: NotificationControl	70
5.5.3.6	Enumeration: QosResourceType	70
5.5.3.7	Enumeration: PreemptionCapabilityRm	70
5.5.3.8	Enumeration: PreemptionVulnerabilityRm	70
5.5.3.9	Enumeration: ReflectiveQosAttributeRm	70
5.5.3.10	Enumeration: NotificationControlRm	71
5.5.3.11	Enumeration: QosResourceTypeRm	71

5.5.3.12	Enumeration: AdditionalQosFlowInfo	71
5.5.4	Structured Data Types	71
5.5.4.1	Type: Arp	71
5.5.4.2	Type: Ambr	71
5.5.4.3	Type: Dynamic5Qi	72
5.5.4.4	Type: NonDynamic5Qi	73
5.5.4.5	Type: ArpRm	73
5.5.4.6	Type: AmbrRm	73
5.5.4.7	Void	73
5.5.4.8	Void	74
5.6	Data Types related to 5G Trace	74
5.6.1	Introduction	74
5.6.2	Simple Data Types	74
5.6.3	Enumerations	74
5.6.3.1	Enumeration: TraceDepth	74
5.6.3.2	Enumeration: TraceDepthRm	74
5.6.3.3	Enumeration: JobType	74
5.6.3.4	Enumeration: ReportTypeMdt	75
5.6.3.5	Enumeration: MeasurementLteForMdt	75
5.6.3.6	Enumeration: MeasurementNrForMdt	75
5.6.3.7	Enumeration: SensorMeasurement	76
5.6.3.8	Enumeration: ReportingTrigger	76
5.6.3.9	Enumeration: ReportIntervalMdt	76
5.6.3.10	Enumeration: ReportAmountMdt	77
5.6.3.11	Enumeration: EventForMdt	77
5.6.3.12	Enumeration: LoggingIntervalMdt	77
5.6.3.13	Enumeration: LoggingDurationMdt	78
5.6.3.14	Enumeration: PositioningMethodMdt	78
5.6.3.15	Enumeration: CollectionPeriodRmmLteMdt	78
5.6.3.16	Enumeration: MeasurementPeriodLteMdt	79
5.6.3.17	Enumeration: ReportIntervalNrMdt	79
5.6.3.18	Enumeration: LoggingIntervalNrMdt	79
5.6.3.19	Enumeration: CollectionPeriodRmmNrMdt	80
5.6.3.20	Enumeration: LoggingDurationNrMdt	80
5.6.4	Structured Data Types	81
5.6.4.1	Type: TraceData	81
5.6.4.2	Type: MdtConfiguration	84
5.6.4.3	Type: AreaScope	87
5.6.4.4	Type: TacInfo	88
5.6.4.5	Type: MbsfnArea	88
5.6.4.6	Type: InterFreqTargetInfo	88
5.7	Data Types related to 5G Operator Determined Barring	88
5.7.1	Introduction	88
5.7.2	Simple Data Types	88
5.7.3	Enumerations	89
5.7.3.1	Enumeration: RoamingOdb	89
5.7.3.2	Enumeration: OdbPacketServices	89
5.7.4	Structured Data Types	89
5.7.4.1	Type: OdbData	89
5.8	Data Types related to Charging	89
5.8.1	Introduction	89
5.8.2	Simple Data Types	89
5.8.3	Enumerations	90
5.8.4	Structured Data Types	90
5.8.4.1	Type: SecondaryRatUsageReport	90
5.8.4.2	Type: QoSFlowUsageReport	90
5.8.4.3	Type: SecondaryRatUsageInfo	90
5.8.4.4	Type: VolumeTimedReport	90

Annex A (normative): OpenAPI specification **91**

A.1 General **91**

A.2 Data related to Common Data Types91

Annex B (informative): Change history129

History134

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[ETSI TS 129 571 V16.14.0 \(2024-04\)](#)

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- will** indicates that something is certain or expected to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document
- will not** indicates that something is certain or expected not to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document
- might** indicates a likelihood that something will happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

might not indicates a likelihood that something will not happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

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is (or any other verb in the indicative mood) indicates a statement of fact

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The constructions "is" and "is not" do not indicate requirements.

1 Scope

The present document specifies the stage 3 protocol and data model for common data types that are used or may be expected to be used by multiple Service Based Interface APIs supported by the same or different Network Function(s).

The Principles and Guidelines for Services Definition are specified in 3GPP TS 29.501 [2].

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 29.501: "5G System; Principles and Guidelines for Services Definition; Stage 3".
- [3] OpenAPI: "OpenAPI 3.0.0 Specification", <https://github.com/OAI/OpenAPI-Specification/blob/master/versions/3.0.0.md>.
- [4] IETF RFC 1166: "Internet Numbers".
- [5] IETF RFC 5952: "A recommendation for IPv6 address text representation".
- [6] IETF RFC 3986: "Uniform Resource Identifier (URI): Generic Syntax".
- [7] 3GPP TS 23.003: "Numbering, addressing and identification".
- [8] 3GPP TS 23.501: "System Architecture for the 5G System; Stage 2".
- [9] IETF RFC 7807: "Problem Details for HTTP APIs".
- [10] IETF RFC 3339: "Date and Time on the Internet: Timestamps".
- [11] 3GPP TS 38.413: "NG-RAN; NG Application Protocol (NGAP) ".
- [12] IETF RFC 6901: "JavaScript Object Notation (JSON) Pointer".
- [13] 3GPP TS 24.007: "Mobile radio interface signalling layer 3; General aspects".
- [14] IETF RFC 6902: "JavaScript Object Notation (JSON) Patch".
- [15] IETF RFC 4122: "A Universally Unique Identifier (UUID) URN Namespace".

- [16] 3GPP TS 36.413: "Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 Application Protocol (S1AP)".
- [17] IETF RFC 7042: "IANA Considerations and IETF Protocol and Documentation Usage for IEEE 802 Parameters".
- [18] IETF RFC 6733: "Diameter Base Protocol".
- [19] 3GPP TS 32.422: "Telecommunication management; Subscriber and equipment trace; Trace control and configuration management".
- [20] 3GPP TS 24.501: "Non-Access-Stratum (NAS) Protocol for 5G System (5GS); Stage 3".
- [21] 3GPP TS 29.002: "Mobile Application Part (MAP) specification".
- [22] Void.
- [23] 3GPP TS 23.032: "Universal Geographical Area Description (GAD)".
- [24] ITU-T Recommendation Q.763 (1999): "Specifications of Signalling System No.7; Formats and codes".
- [25] 3GPP TS 29.500: "5G System; Technical Realization of Service Based Architecture; Stage 3".
- [26] 3GPP TS 23.015: "Technical Realization of Operator Determined Barring".
- [27] 3GPP TR 21.900: "Technical Specification Group working methods".
- [28] 3GPP TS 23.502: "Procedures for the 5G System; Stage 2".
- [29] 3GPP TS 29.510: "5G System; Network Function Repository Services; Stage 3".
- [30] 3GPP TS 23.316: "Wireless and wireline convergence access support for the 5G System (5GS)".
- [31] IEEE Std 802.11-2012: "IEEE Standard for Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications".
- [32] CableLabs WR-TR-5WWC-ARCH: "5G Wireless Wireline Converged Core Architecture".
- [33] 3GPP TS 23.401: "General Packet Radio Service (GPRS) enhancements for Evolved Universal Terrestrial Radio Access Network (E-UTRAN) access; Stage 2".
- [34] BBF TR-069: "CPE WAN Management Protocol".
- [35] BBF TR-369: "User Services Platform (USP)".
- [36] 3GPP TS 23.287: "Architecture enhancements for 5G System (5GS) to support Vehicle-to-Everything (V2X) services".
- [37] BBF TR-470: "5G Wireless Wireline Convergence Architecture".
- [38] IEEE "Guidelines for Use of Extended Unique Identifier (EUI), Organizationally Unique Identifier (OUI), and Company ID (CID)", <https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/tutorials/eui.pdf>
- [39] 3GPP TS 36.331: "Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification".
- [40] IETF RFC 5580: "Carrying Location Objects in RADIUS and Diameter".
- [41] BBF TR-456: "AGF Functional Requirements".
- [42] 3GPP TS 38.331: "NR; Radio Resource Control (RRC); Protocol specification".
- [47] IETF RFC 7542: "The Network Access Identifier"

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in 3GPP TR 21.905 [1].

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in 3GPP TR 21.905 [1].

5GC	5G Core Network
DNAI	Data Network Access Identifier
EUI	Extended Unique Identifier
GPSI	Generic Public Subscription Identifier
GUAMI	Globally Unique AMF Identifier
HFC	Hybrid Fiber Coax
N5GC	Non-5G Capable
NSSAA	Network Slice- Specific Authentication and Authorization
PEI	Permanent Equipment Identifier
SBI	Service Based Interface
SUPI	Subscription Permanent Identifier

4 Overview

For the different 5GC SBI API, data types shall be defined. Data types identified as common data types shall be defined in this Technical specification and should be referenced from individual 5GC SBI API specifications.

Data types applicable or intended to be applicable to several 5GC SBI API specifications should be interpreted as common data types.

5 Common Data Types

5.1 Introduction

In the following clauses, common data types for the following areas are defined:

- Data types for generic usage;
- Data types for Subscription, Identification and Numbering;
- Data types related to 5G Network;
- Data types related to 5G QoS;
- Data types related to 5G Trace;
- Data types related to 5G ODBs.

5.2 Data Types for Generic Usage

5.2.1 Introduction

This clause defines common data types for generic usage.

5.2.1A Re-used Data Types

This clause specifies the re-used data types from other specifications.

Table 5.2.1A-1: Re-used Data Types

Data Type	Reference	Comments
Fqdn	3GPP TS 29.510 [29]	
NFType	3GPP TS 29.510 [29]	
ServiceName	3GPP TS 29.510 [29]	
DataSetId	3GPP TS 29.510 [29]	
PlmnSnssai	3GPP TS 29.510 [29]	

5.2.2 Simple Data Types

This clause specifies common simple data types.

iTeh Standards
(<https://standards.iteh.ai>)
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[ETSI TS 129 571 V16.14.0 \(2024-04\)](#)

<https://standards.iteh.ai/catalog/standards/etsi/79256ed2-2d12-4a63-8074-f1b5a53ab13b/etsi-ts-129-571-v16-14-0-2024-04>

Table 5.2.2-1: Simple Data Types

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ETSI TS 129 571 V16.14.0 (2024-04).
<https://standards.iteh.ai/catalog/standards/etsi/79256ed2-2d12-4a63-8074-f1b5a53ab13b/etsi-ts-129-571-v16-14-0-2024-04>