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| CHANGE REQUEST |
| Meeting ID:\* | PRO 32 |
| Source:\* | Dale Seed, Convida Wireless, Seed.Dale@ConvidaWireless.comBob Flynn, Convida Wireless, Flynn.Bob@ConvidaWireless.com  |
| Date:\* | 2017-10-18 |
| Reason for Change/s:\* | See the introduction  |
| CR against: Release\* | Release 3 |
| CR against: WI\* | [x]  Active - WI-0058 - 3GPP & Cellular IoT Interworking [ ]  MNT maintenance / < Work Item number(optional)>Is this a mirror CR? Yes [ ]  No [x] mirror CR number: (Note to Rapporteur - use latest agreed revision)[ ]  STE Small Technical Enhancements / < Work Item number (optional)>Only ONE of the above shall be ticked |
| CR against: TS/TR\* | TS-0004 Version 3.4.0 |
| Clauses \* | Annex B |
| Type of change: \* | [ ]  Editorial change[ ]  Bug Fix or Correction[x]  Change to existing feature or functionality[ ]  New feature or functionalityOnly ONE of the above shall be ticked |
| Impacted other TS/TR(s) | <TS/TR number>, <Version Number>, and <Description on which aspect should be reflected in this TS/TR> |
| Post Freeze checking:\* | This CR contains only essential changes and corrections? YES [x]  NO [ ] This CR may break backwards compatibility with the last approved version of the TS? YES [ ]  NO [x]  |
| Template Version: January 2017 (Do not modify) |

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GUIDELINES for Change Requests:

Provide an informative introduction containing the problem(s) being solved, and a summary list of proposals.

Each CR should contain changes related to only one particular issue/problem.

In case of a correction, and the change apply to previous releases, a separate “mirror CR” should be posted at the same time of this CR

Mirror CR: applies only when the text, including clause numbering are exactly the same.

Companion CR: applies when the change means the same but the baselines differ in some way (e.g. clause number).

Follow the principle of completeness, where all changes related to the issue or problem within a deliverable are simultaneously proposed to be made E.g. A change impacting 5 tables should not only include a proposal to change only 3 tables. Includes any changes to references, definitions, and acronyms in the same deliverable.

Follow the drafting rules.

All pictures must be editable.

Check spelling and grammar to the extent practicable.

Use Change bars for modifications.

The change should include the current and surrounding clauses to clearly show where a change is located and to provide technical context of the proposed change. Additions of complete clauses need not show surrounding clauses as long as the proposed clause number clearly shows where the new clause is proposed to be located.

Multiple changes in a single CR shall be clearly separated by horizontal lines with embedded text such as, start of change 1, end of change 1, start of new clause, end of new clause.

When subsequent changes are made to content of a CR, then the accepted version should not show changes over changes. The accepted version of the CR should only show changes relative to the baseline approved text.

## Introduction

This contribution provides parameter data type mappings between oneM2M and 3GPP for Network Parameter Configuration request/response messages. The mappings are w.r.t the T8 interface APIs defined for Network Parameter configuration procedures.

### -----------------------Start of change 1-------------------------------------------

B.xx. Network Parameter Configuration

B.xx.1. Introduction

The 3GPP T8 interface supports network parameter configuration as defined by TS 23.682 [15]. The protocol specification for the T8 interface is described in 3GPP TS 29.122 [45]. Additional details are provided in clause 7.12 of TS-0026[44]. An IN-CSE may use the T8 interface API to suggest UE/network specific configuration parameters such as a UE’s PSM and extended idle mode DRX settings.

B.xx.2. Network Parameter Configuration Request/Response

The IN-CSE requests a Network Parameter Configuration via sending a message to a 3GPP SCEF to configure the network parameters. The following table provides parameter data type mappings between oneM2M and 3GPP.

Table B.xx.2-1: Network Parameter Configuration Mapping

|  |  |  |
| --- | --- | --- |
| **3GPP parameter** | **oneM2M attribute/dataType** | **References and notes** |
| scsAsId | m2m:ID | Identifier of the SCS/AS. Pre-provisioned to IN-CSE. |
| tltrId | xs:positiveInteger | Long term transaction identifier. Assigned by IN-CSE based on internal policies/pre-provisioning. |
| ttrId | xs:positiveInteger | Short-term transaction identifier to correlate request and response.Assigned by IN-CSE based on internal policies/pre-provisioning. |
| self | xs:anyURI | Assigned by SCEF and returned in Monitoring Event Subscription response.  |
| externalId | m2m:externalID | Configured by IN-CSE with the M2M-Ext-ID of the UE to be monitored.  |
| msisdn | - | Not currently used by IN-CSE |
| externalGroupId | m2m:externalID | Configured by IN-CSE with the externalGroupID of the group being monitored.  |
| maximumLatency | xs:positiveInteger | This parameter may be included to identifiy the maximum delay (in seconds) acceptable for downlink data transfers. The In-CSE can derive this value based on the periodicity of the active periods in the *scheduleElement.* Clause 7.4.9 |
| maximumResponseTime | xs:positiveInteger | This parameter may be included to identifiy the length of time (in seconds) for which the UE stays reachable to allow the IN-CSE to reliably deliver the required downlink data. The In-CSE can derive this value based on the duration of activity from the *scheduleElement.* Clause 7.4.9 |
| suggestedNumberOfDlPackets | xs:nonNegativeInteger | This parameter may be included to identifiy the number of packets that the underlying network can buffer in case that the UE is not reachable.Assigned by IN-CSE based on internal policies/pre-provisioning |

Editor’s Note: There is a discrepancy between TS 23.682 [15] and TS 29.122 [45] for the groupReportingGuardTime parameter which needs to be resolved. 29.122 includes this parameter but 23.682 does not.

### -----------------------End of change 1 --------------------------------------------

### -------------- start of change to normative references ----------------------------------

## 2.1 Normative references

The following referenced documents are necessary, partially or totally, for the application of the present document. Their use in the context of this TS is specified by the normative statements that are referring back to this clause.

 [1] W3C Recommendation: "Extensible Markup Language (XML) 1.0 (Fifth Edition)", 26 November 2008.

[2] IETF RFC 3986: "Uniform Resource Identifier (URI): Generic Syntax".

[3] W3C XMLSchemaP2: "W3C Recommendation (2004), XML Schema Part 2:Datatypes Second Edition".

[4] Void.

[5] Void.

[6] oneM2M TS-0001: "Functional Architecture".

[7] oneM2M TS-0003: "Security Solutions".

[8] IEEE 754-2008: "IEEE Standard for Floating-Point Arithmetic", 29 August 2008.

NOTE: http://ieeexplore.ieee.org/servlet/opac?punumber=4610933.

[9] IETF RFC 4648: "The Base16, Base32, and Base64 Data Encodings".

[10] IETF RFC 2045: "Multipurpose Internet Mail Extensions (MIME) Part One: Format of Internet Message Bodies".

[11] IETF RFC 3987: "Internationalized Resource Identifiers (IRIs)".

[12] IETF BCP 47: "Best Current Practices 47". Concatenation of IETF RFC 4646: "Tags for Identifying Languages" (2006) and IETF RFC 4647: "Matching of Language Tags" (2006).

[13] IETF RFC 3588: "Diameter Base Protocol".

[14] IETF RFC 6733: "Diameter Base Protocol".

[15] 3GPP TS 23.682: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; Architecture enhancements to facilitate communications with packet data networks and applications (3GPP TS 23.682 Release 11)".

[16] 3GPP TS 29.368: "Universal Mobile Telecommunications System (UMTS); LTE; Tsp interface protocol between the MTC Interworking Function (MTC-IWF) and Service Capability Server (SCS) (3GPP TS 29.368 Release 11)".

[17] 3GPP TS 23.003: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Numbering, addressing and identification (3GPP 23.003)".

[18] Void.

[19] IETF RFC 7159: "The JavaScript Object Notation (JSON) Data Interchange Format".

[20] IETF RFC 4234: "Augmented BNF for Syntax Specifications: ABNF"

[21] IETF RFC 3629: " UTF-8, a transformation format of ISO 10646".

[22] oneM2M TS-0008: "CoAP Protocol Binding".

[23] oneM2M TS-0009: "HTTP Protocol Binding".

[24] oneM2M TS-0010: "MQTT Protocol Binding".

[25] oneM2M TS-0011: "Common Terminology".

[26] IETF RFC 6837: "Media Type Specifications and Registration Procedures".

[27] ISO 8601:2004: "Data elements and interchange formats -- Information interchange -- Representation of dates and times".

[28] OMA-TS-REST-NetAPI\_TerminalLocation: "Open Mobile Alliance; RESTful Network API for Terminal Location", Version 1.0.

[29] IETF RFC 4632: "Classless Inter-domain Routing (CIDR): The Internet Address Assignment and Aggregation Plan".

[30] IETF RFC 5952: "A Recommendation for IPv6 Address Text Representation".

[31] 3GPP TS 32.299: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Charging management; Diameter charging applications (3GPP TS 32.299) Release 11".

[32] IETF RFC 4006: "Diameter Credit-Control Application".

[33] W3C SPARQL 1.1: "Query Language".

[34] W3C RDF 1.1 XML Syntax.

[35] IETF RFC 4122: "A Universally Unique IDentifier (UUID) URN Namespace".

[36] oneM2M TS-0012: "Base Ontology".

[37] oneM2M TS-0021: "AllJoyn Interworking".

[38] 3GPP TS 29.336: "Home Subscriber Server (HSS) diameter interfaces for interworking with packet data networks and applications (Release 13)".

[39] IETF RFC 7049: "Concise Binary Object Representation (CBOR)", October 2013.

[40] oneM2M TS-0023: "Home Appliances Information Model and Mapping".

[41] ISO 3166-1:2013: "Codes for the representation of names of countries and their subdivisions -- Part 1: Country codes".

[42] oneM2M TS-0020: "WebSocket Protocol Binding".

[43] oneM2M TS-0034: "Semantics Support".

[44] oneM2M TS-0026: "3GPP Interworking".

[45] 3GPP TS 29.122: " T8 reference point for Northbound APIs (3GPP TS 29.122 Release 15)”

### ----------end of change to normative references --------------------------------------

CHECK LIST

* Does this Change Request include an informative introduction containing the problem(s) being solved, and a summary list of proposals.?
* Does this CR contain changes related to only one particular issue/problem?
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