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| CHANGE REQUEST |
| Meeting ID:\* |  SDS #59 |
| Source:\* | Andreas Kraft, DT, Andreas.Kraft@t-systems.com Andreas Neubacher, DT, Andreas.Neubacher@magenta.at Miguel Angel Reina Ortega, ETSI, MiguelAngel.ReinaOrtega@etsi.orgPoornima Shandilya, CDOT, poornima@cdot.in |
| Date:\* | 2023-04-05 |
| Reason for Change/s:\* | Correcting triggerPayload in TS-0004 |
| CR against: Release\* | Release 5 |
| CR against: WI\* | [ ]  Active WI-xxxx[ ]  MNT maintenance / < Work Item number(optional)>Is this a mirror CR? Yes [ ]  No [ ] mirror CR number: (Note to Rapporteur - use latest agreed revision)[x]  STE Small Technical Enhancements / < Work Item number (optional)>Only ONE of the above shall be ticked |
| CR against: TS/TR\* | TS-0004 v.4.14.0 |
| Clauses \* | 6.3.5.88, 9.2.1 |
| Type of change: \* | [x]  Editorial change[ ]  Bug Fix or Correction[ ]  Change to existing feature or functionality[ ]  New feature or functionalityOnly ONE of the above shall be ticked |
| Impacted other TS/TR(s) |  |
| 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

In TS-0004 a complex type “m2m:triggerPayload” is defined in clause 9.2.1 (in an “Introduction” clause) without naming it, which makes it difficult to find. The common practice is to define complex types in clause 6.3.5 in a sub-clause with the “m2m:…” type name. A reason to define this structure in its current place was perhaps that it mainly used in Mcn triggering procedures. Nevertheless, it is referenced in “m2m:representation” (clause 6.3.5.62), i.e. the representation of a notification content.

This change request proposes to move the definition of “m2m:triggerPayload” to a sub-clause in 6.3.5.

Change 1: Add clause 6.3.5.88 “m2m:triggerPayload”

Change 2: Correcting the reference to “m2m:triggerPaylod” definition in clause 6.3.5.88

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of Change 1 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### 6.3.5.88 m2m:triggerPayload

Used in Mcn trigger requests to an underlying network. See clause 9.2 .

Table 6.3.5.88‑1: Type Definition of m2m:triggerPayload

| **Field Name** | **Data Type** | **Multiplicity** | **Note** |
| --- | --- | --- | --- |
| *triggerPurpose* | m2m:triggerPurpose | 1 | See clause 6.3.4.2.49 |
| *triggerInfoAddress* | xs:anyURI | 0..1 |  |
| *triggerInfoPoA* | m2m:poaList | 0..1 |  |
| *triggerInfoOperation* | m2m:operation | 0..1 |  |
| *triggerInfoResourceType* | m2m:resourceType | 0..1 |  |
| *triggerInfoAE-ID* | m2m:ID | 0..1 |  |
| *triggerInfoSerializationTypes* | m2m:serializations | 0..1 |  |

NOTE: Mandatory payload fields are only mandatory if the trigger payload is present.

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of Change 1 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of Change 2 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### 9.2.1 Introduction

A trigger originator (i.e. IN-CSE) may send a trigger request to an underlying network that addresses a trigger recipient (i.e. ASN/MN-CSE or an ADN-AE). A trigger request may include a payload. If the trigger has no payload, the trigger recipient shall just re-establish a network connection, so that the trigger originator can send requests to the trigger recipient. If the request contains a payload, the trigger recipient shall re-establish the network connection and perform additional actions as requested by the payload. The trigger payload fields are described in Table 6.3.5.88.

Table 9.2.1‑1: Trigger payload short names and field descriptions

| **Field Name** | Request Optionality  | **Default Value and Constraints** |
| --- | --- | --- |
| Establish Connection | registration Request | executeCRUD |
| *triggerPurpose* | M | M | M | If a trigger has a payload then this field is mandatory and shall be specified by the trigger originator. If a trigger does not have a payload then the default *triggerPurpose* is establishConnection. |
| *triggerInfoAddress* | O | O | M | No defaultWhen the *triggerPurpose* is "establishConnection", and this field is provided by the trigger originator, then this field shall be configured with an unstructured CSE-Relative-Resource-ID of the <remoteCSE> or <AE> resource of the trigger recipient. The trigger recipient shall update the *pointOfAccess* attribute of this resource.When the *triggerPurpose* is "establishConnection", and this field is not provided by the trigger originator, the trigger recipient shall establish a network connection with its Registrar CSE but not update its *pointOfAccess*.When the *triggerPurpose* is "registrationRequest", and this field is provided by the trigger originator, then this field is the unstructured CSE-Relative-Resource-ID of the Registrar CSE's <cseBase> resource that the trigger recipient shall register to.When the *triggerPurpose* is "registrationRequest", and this field is not provided by the trigger originator, the trigger recipient shall register to the Registrar CSE using a pre-provisioned address of the Registrar CSE. The pre-provisioning method is outside the scope of the present document.When the *triggerPurpose* is "executeCRUD", this field is mandatory and shall be configured with an unstructured CSE-Relative-Resource-ID by the trigger originator. The trigger originator shall also specify the type of CRUD operation in the *triggerInfoOperation* field and the type of resource in the *targetedResourceType* field. The trigger recipient shall perform the CRUD operation specified by the *triggerInfoOperation* field on this resource.When the *triggerPurpose* is "enrolmentRequest", this field is mandatory and shall be configured with the absolute URI of the <MEFBase> resource of the MEF that the ASN/MN-CSE or ADN-AE shall enrol to. |
| *triggerInfoPoA* | O | O | O | No defaultList of pointOfAccess of the trigger originator. When *triggerInfoAddress* is included, the trigger originator shall configure this field with at least one supported pointOfAccess. |
| *triggerInfoOperation* | NP | NP | M | No defaultSee clause 6.3.4.2.5.When the *triggerPurpose* is "executeCRUD", the trigger originator shall configure this field with the CRUD operation to perform on the targeted resource specified by *triggerInfoAddress*. |
| *triggerInfoResourceType* | NP | NP | M | No defaultSee clause 6.3.4.2.1.When the *triggerPurpose* is "executeCRUD", the trigger originator shall configure this field with the resource type of the targeted resource specified by *triggerInfoAddress*. |
| *triggerInfoAE-ID* | NP | NP | O | No defaultThis field is included in the payload by the trigger originator when the purpose of the trigger is to request an ASN/MN-AE of the trigger recipient is to perform a CRUD operation. This field identifies the ASN/MN-AE that should perform the CRUD operation. The type of CRUD operation to perform shall be specified by the trigger originator in the *triggerInfoOperation.* The resource to perform the operation on shall be specified by the trigger originator in the *triggerInfoAddress.* The type of resource shall be specified by the trigger originator in the *targetedResourceType*.  |
| *triggerInfoSerializationTypes* | *O* | *O* | *O* | This field may be configured by the trigger originator. The field indicates which types of serializations the trigger originator supports in requests from the trigger recipient (i.e. xml, json and/or cbor). The default value is json. |

NOTE: Mandatory payload fields are only mandatory if the trigger payload is present.

The trigger payload may be serialized in XML, JSON or CBOR format. The IN-CSE shall serialize the trigger payload based on the *contentSerialization* attribute of the trigger recipient's <AE> or <remoteCSE> resource. If the trigger recipient has not yet registered to the IN-CSE, and the *contentSerialization* attribute of the trigger recipient's <AE> or <remoteCSE> resource is not available to the IN\_CSE, the IN-CSE may use any of the supported serialization formats.

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of Change 2 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*