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| CHANGE REQUEST |
| Meeting ID:\* | PRO 34.2 |
| Source:\* | Bob Flynn, Convida Wireless; Flynn.bob@convidawireless.com |
| Date:\* | 2018-04-12 |
| Reason for Change/s:\* | EventConfig updates |
| CR against: Release\* | Release 3 |
| CR against: WI\* | [ ]  Active <Work Item number> [ ]  MNT maintenance / < Work Item number(optional)>Is this a mirror CR? Yes [ ]  No [x] 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 Version 3.7.0 |
| Clauses \* | 7.4.16.2.1, 7.4.37.1 |
| 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 [x]  NO [ ]  |
| 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

Protocol contribution to reflect changes in ARC-2017-0184R04-StorageBasedEventClarification\_R3

R01 – Add changes based on email comments

Change 1:

First comment: Editorial suggestion.

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***Receiver:***

Primitive specific operation on Recv-6.5 "Create/Update/Retrieve/Delete/Notify operation is performed" with the following additional operations.

1. ……
2. ……

No other changes from the generic procedures in clause 7.2.2.2.

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Second comment:

1. This is a valid checking, but I think we should change the data type for dataSize attribute to xs:positiveInteger, not xs:nonNegativeInteger since 0 is not allowed. See TS-0001 Table 10.2.11.6-1.
2. This check doesn’t make sense. (BTW, you have typos on eventResourceTypes and eventResourceIDs. Those should be eventType and eventID.) The eventID attribute is RO and shall not be included in Create request anyway. This is already covered by the generic procedure in 7.3.3.3.
3. We need one more checking according to TS-0001. If the eventEnd attribute is less than the eventStart attribute when these two attributes are present, then the Hosting CSE shall reject the request with a BAD\_REQUEST Response Status Code.

These are the attributes that I am referring to.

|  |  |  |  |
| --- | --- | --- | --- |
| *eventResourceTypes* | 0..1 (L) | RW | This attribute indicates the list of resource types for which an event is to be captured and reported. This could be used to differentiate the same operation on different types of resources that triggers the charging activity. If this attribute is specified, then *eventResourceIDs* shall not be specified. |
| *eventResourceIDs* | 0..1 (L) | RW | This attribute indicates the list of resourceIDs for which the event is to be captured and reported. Whenever an operation is performed on the resourceIDs in this list, an event will be recorded provided other event criteria are met such as eventResourceType, locationRestriction and the event information based on the type of event. If this attribute is specified, then *eventResourceTypes* shall not be specified. |

Change 2:

The contentSize attribute in the <flexContainer> resource has been added by PRO-2018-0068-TS-0004\_flexContainer\_modifications\_R3 (Qualcomm). This change is not required.

I updated the datatype to xs:positiveInteger

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

##### Create

***Originator****:*

This procedure follows the Generic Resource Request Procedure for Originator specified in clause 7.2.2.1, with the following <eventConfig> resource-specific updates.

Resource-specific operation before Orig-1.0 "Compose Request primitive":

1. If event-based statistics collection will be used, the Originator shall generate the representation of the <eventConfig> child resource instance to produce the desired trigger condition for the intended event. For example, one representation of <eventConfig> could have *eventType* set to DATA OPERATION and *operationType* set to Retrieve. In another example, a representation could have *eventType* set to TIMER-BASED, *eventStart* set to midnight tomorrow and *eventEnd* set to midnight of the day after tomorrow. See Table 7.4.24.1‑3 for value restrictions and default settings pertaining to the attributes of <eventConfig>.

***Receiver****:*

Primitive specific operation on Recv-6.5 "Create/Update/Retrieve/Delete/Notify operation is performed" with the following additional operations.

1. If the *eventType* attribute is STORAGEBASED and the *dataSize* attribute is not specified in the Create request then the Hosting CSE shall reject the request with a BAD\_REQUEST ***Response Status Code.***
2. If the Create request specifies both the *eventResourceTypes* attribute and the *eventResourceIDs* attribute then the Hosting CSE shall reject the request with a BAD\_REQUEST ***Response Status Code.***
3. If the value of the *eventEnd* attribute is less than the *eventStart* attribute then the Hosting CSE shall reject the request with a BAD\_REQUEST ***Response Status Code***.

No other change from the generic procedure in clause 7.2.2.2.

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

### -----------------------Start of change 2-------------------------------------------

* + 1.

#### 7.4.37.1 Introduction

This resource represents a customizable container for data instances. It is a template for the definition of flexible specializations of data containers.

The detailed description can be found in clause 9.6.35 in TS-0001 [6].

There are multiple specializations of <flexContainer> specified by oneM2M. Each of these specializations has its own schema file. There is no separate schema file just for <flexContainer>, however the XML schema types for the specializations all conform to the pattern described in this clause. The XSD of <flexContainer>specializations may use a targetNamespace other than the one identified by the *m2m:* prefix. Specializations of <flexContainer> which employ the namespace prefix *m2m:* are defined in Annex J. Specialization of <flexContainer> which employ the namespace prefix *hd:* for *Home Domain* use cases are specified in TS-0023 [39].

The following resource types are allowed to include <flexContainer> specializations as children: <CSEBase>, <AE>, <remoteCSE> and <container>.

Table 7.4.37.1‑1: Universal/Common Attributes of <flexContainer> resource

|  |  |
| --- | --- |
| **Attribute Name** | **Request Optionality**  |
| **Create** | **Update** |
| @resourceName | O | NP |
| *resourceType* | NP | NP |
| *resourceID* | NP | NP |
| *parentID* | NP | NP |
| *accessControlPolicyIDs* | O | O |
| *creationTime* | NP | NP |
| *expirationTime* | O | O |
| *lastModifiedTime* | NP | NP |
| *stateTag* | NP | NP |
| *labels* | O | O |
| *announceTo* | O | O |
| *announcedAttribute* | O | O |
| *creator* | O | NP |
| *dynamicAuthorizationConsultationIDs* | O | O |

Table 7.4.37.1‑2: Resource Specific Attributes of <flexContainer> resource

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute Name** | **Request Optionality**  | **Data Type** | **Default Value and Constraints** |
| **Create** | **Update** |
| *containerDefinition* | M | NP | xs:anyURI | No default |
| *ontologyRef* | O | O | xs:anyURI | No default |
| *contentSize* | NP | NP | xs:positiveInteger | No default |
| *nodeLink* | O | O | xs:anyURI | No default |
| *[customAttribute]* | O | O | Name and data type are defined in the specification document or XSD file identified by the value of containerDefinition attribute. | No default. |

Table 7.4.37.1‑3: Child Resources of <flexContainer> resource

|  |  |  |  |
| --- | --- | --- | --- |
| **Child Resource Type**  | **Child Resource Name** | **Multiplicity** | **Ref. to in Resource Type Definition** |
| <semanticDescriptor> | [variable] | 0..n | Clause 7.4.34 |
| <subscription> | [variable] | 0..n | Clause 7.4.8 |
| <container> | [variable] | 0..n | Clause 7.4.6 |
| <flexContainer> | [variable] | 0..n | Clause 7.4.37 |
| <timeSeries> | [variable] | 0..n | Clause 7.4.38 |
| <transaction> | [variable] | 0..n | Clause 7.4.xx |

### -----------------------End of change 2-------------------------------------------

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?
* Have any mirror CRs been posted?
* Does this Change Request make **all** the changes necessary to address the issue or problem? E.g. A change impacting 5 tables should not include a proposal to change only 3 tables?Does this Change Request follow the drafting rules?
* Are all pictures editable?
* Have you checked the spelling and grammar?
* Have you used change bars for all modifications?
* Does the change 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.)
* Are multiple changes in this CR 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.?