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| CHANGE REQUEST |
| Meeting:\* |  PRO TP33.2 |
| Source:\* | BeiXu，Huawei，Echo.xubei@huawei.com |
| Date:\* | 2018-02-11 |
| Contact:\* | BeiXu，Huawei，Echo.xubei@huawei.com |
| Reason for Change/s:\* | Add new function of 3GPP location reporting for <latest> |
| CR against: Release\* | <Release3>  |
| CR against: WI\* | [x] Active <WI-0058 - 3GPP & Cellular IoT Interworking> [ ]  MNT Maintenace / < Work Item number(optional)>[ ]  STE Small Technical Enhancements / < Work Item number (optional)>Only ONE of the above shall be ticked |
| CR against: TS/TR\* | TS-0004-V3\_6\_0 |
| Clauses/Sub Clauses\* |  |
| Type of change: \* | [ ]  Editorial change[ ]  Bug Fix or Correction[ ]  Change to existing feature or functionality[x]  New feature or functionalityOnly ONE of the above shall be ticked |
| 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 [ ] This CR is a mirror CR? YES [ ]  if YES, please indicate the document number of the original CR: <Document Number) : NO [x]   |
| Template Version:27 May 2015 (Dot 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 separated “mirror CR” should be posted at the same time of this CR

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 sections need not show surrounding clauses as long as the proposed section number clearly shows where the new section 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

R03: Update the content according to the new baseline of TS-0004v3.6.0

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

### 7.4.27 Resource Type latest

#### 7.4.27.1 Introduction

The <latest> resource is a virtual resource because it does not have a representation. It is a child resource of the <container> resource. Whenever a request addresses the <latest> resource, the Hosting CSE shall apply the request to the latest <contentInstance> resource among all existing <contentInstance> resources of the <container> resource.

#### 7.4.27.2 <latest> Resource Specific Procedure on CRUD Operations

##### 7.4.27.2.0 Introduction

This sub-clause describes <latest> resource specific behaviour for operations. Among operations, only Retrieve and Delete operations shall be allowed for the <latest> resource.

##### Create

***Originator****:*

The <latest> resource shall not be created via API.

***Receiver***:

Primitive specific operation on Recv-1.0 "Check the syntax of received message":

1. If the request is received, the Receiver CSE shall execute the following steps in order.
2. "Create an unsuccessful Response primitive" with the ***Response Status Code*** indicating "OPERATION\_NOT\_ALLOWED" error.
3. "Send the Response primitive".

##### Retrieve

***Originator***:

No change from the generic procedures in clause 7.2.2.1.

***Receiver***:

If the *locationID* of <container> is configured and the value of *locationUpdatePeriod* is marked '0' or not defined and *locationSource* attribute is 'Network Based', the following <*latest*> resource type specific procedures shall be performed after Recv-6.3 and before Recv-6.6 generic procedures.

1. The Hosting CSE shall transform the location-acquisition request into Location Server request, using the attributes stored in <*locationPolicy*> resource. The Hosting CSE shall also provide default values for other required parameters (e.g. quality of position) in the Location Server request according to local policies.

The Hosting CSE shall send this Location Server request to the location server which could use either one of the two API interfaces: one is OMA Mobile Location Protocol [i.4] and OMA RESTful NetAPI for Terminal Location [28]. The other one is 3GPP Monitoring Event API for terminal location [51]. The location server performs positioning procedure based upon the Location Server request.

1. The Hosting CSE shall receive the corresponding response and transform it into a Response primitive.
2. If the positioning procedure is failed and *retrieveLastKnownLocation* is FALSE, the Hosting CSE returns the response with a ***Response Status Code*** based on the error code and shall store a statusCode based on the error code in the *locationStatus* attribute in the <*locationPolicy*> resource. If the positioning procedure failed and *retrieveLastKnownLocation* is TRUE, the Hosting CSE shall repeat step 2), once only, but requesting the last known location from the Location Server using 3GPP Monitoring Event API [51].
3. If the positioning procedure is successfully completed which means that the Hosting CSE acquires the location information, the Hosting CSE shall perform the procedures of creating a <*contentInstance*> as described in 7.4.7.2.1 according to the acquired location information and perform the normal Recv-6.5 procedure.
* NOTE 1: For information on how the Location Server request message is converted into OMA RESTful NetAPI for Terminal Location message, see Annex G.2.
* NOTE 2: For information on how the Location Server request message is converted into 3GPP Monitoring Event API for terminal location message, see Annex G.3.

If *locationID* of <container> is not configured, or the *locationID* of <*container*> is configured and the value of *locationUpdatePeriod* is greater than zero, or *locationSource* attribute is Device Based' or Sharing Based:

1. No change from the generic procedures in clause 7.2.2.1 except the following modification:

Recv-6.2 Check the existence of the latest <contentInstance> resource among all existing <contentInstance> resources in the parent <container> resource. If the resource exists, the subsequent procedures of the Receiver (i.e. after Recv-6.2) shall be performed for the resource. If the resource does not exist, the Hosting CSE shall reject the request with a ***Response Status Code*** indicating "NOT\_FOUND" error.

Recv-6.3: Addition on normal procedure of Recv-6.3 "Check authorization of the Originator", Check the value of *disableRetrieval* attribute, and if the value is True then the Hosting CSE shall reject the request with a ***Response Status Code*** indicating "OPERATION\_NOT\_ALLOWED" error.

##### Update

***Originator****:*

The <latest> resource shall not be updated via API.

***Receiver*:**

Primitive specific operation on Recv-1.0 "Check the syntax of received message":

1. If the request is received, the Receiver CSE shall execute the following steps in order.
2. "Create an unsuccessful Response primitive" with the ***Response Status Code*** indicating "OPERATION\_NOT\_ALLOWED" error.
3. "Send the Response primitive".

##### Delete

***Originator***:

No change from the generic procedures in clause 7.2.2.1.

***Receiver***:

No change from the generic procedures in clause 7.2.2.1 except the following modification:

Recv-6.2 Check the existence of the latest <contentInstance> resource among all existing <contentInstance> resources in the parent <container> resource. If the resource exists, the subsequent procedures of the Receiver (i.e. after Recv-6.2) shall be performed for the resource. If the resource does not exist, the Hosting CSE shall reject the request with a ***Response Status Code*** indicating "NOT\_FOUND" error.

Recv-6.3: Addion on normal procedure of Recv-6.3 "Check authorization of the Originar", Check the value of disableRetrieval attribute, and if the value is True then the Hosting CSE shall reject the request with a Response Status Code indicating "OPERATION\_NOT\_ALLOWED" error.

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

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 only include a proposal to change only 3 tables. Includes any changes to references, definitions, and acronyms in the same deliverable?
* 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 sections need not show surrounding clauses as long as the proposed section number clearly shows where the new section 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.?