|  |  |
| --- | --- |
| CHANGE REQUEST | |
| Meeting ID:\* | PRO 32.2 |
| Source:\* | Bob Flynn, Convida Wireless; [Flynn.bob@convidawireless.com](mailto:Flynn.bob@convidawireless.com) |
| Date:\* | 2018-01-14 |
| Reason for Change/s:\* | See Introduction |
| CR against: Release\* | Release 2 |
| CR against: WI\* | Active <WI-0058>  MNT maintenance / < Work Item number(optional)>  Is this a mirror CR? Yes  No  mirror CR number: (PRO-2018-0040)  STE Small Technical Enhancements / < Work Item number (optional)>  Only ONE of the above shall be ticked |
| CR against: TS/TR\* | TS-0004 Version 3.5.0 |
| Clauses \* | 7.4.7.1 |
| Type of change: \* | Editorial change  Bug Fix or Correction  Change to existing feature or functionality  New feature or functionality  Only 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  NO  This CR may break backwards compatibility with the last approved version of the TS? YES  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

Content Instance does not have accessControlPolicyIDs and SHOULD NOT have dynamicAuthorizationConsultationIDs. This contribution addresses this.

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

#### 7.4.7.1 Introduction

The <contentInstance> resource represents a data instance in the container.

The detailed description can be found in clause 9.6.7 in TS-0001 [6].

**Table 7.4.7.1‑1: Data type definition of <contentInstance> resource**

|  |  |  |
| --- | --- | --- |
| **Data Type ID** | **File Name** | **Note** |
| contentInstance | CDT-contentInstance-v3\_5\_0.xsd |  |

Table 7.4.7.1‑2: Universal/Common Attributes of <contentInstance> resource

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

Table 7.4.7.1‑3: Resource Specific Attributes of <contentInstance> resource

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute Name | Request Optionality | Data Type | Default Value and Constraints |
| Create |
|  |  |  |  |
| *contentInfo* | O | m2m:contentInfo | No default |
| *contentSize* | NP | xs:nonNegativeInteger | No default |
| *contentRef* | O | m2m:contentRef | No default |
| *ontologyRef* | O | xs:anyURI | No default |
| *content* | M | xs:anySimpleType | No default (Transfer encoding may be applied, and indicated applied encoding as part of the *contentInfo* attribute) |

**Table 7.4.6.1‑4: Child resources of <contentInstance> resource**

|  |  |  |  |
| --- | --- | --- | --- |
| **Child Resource Type** | **Child Resource Name** | **Multiplicity** | **Ref. to in Resource Type Definition** |
| <semanticDescriptor> | [variable] | 0..n | Clause 7.4.28 |

The ***contentInfo*** attribute shall provide meta information about the stored data in content. m2m:encodingType (0:plain, 1:base64 encoded string, 2:base64 encoded binary) and is optional.

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

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

#### Introduction

The <schedule> resource shall represent scheduling information in the context of its parent resource. If a <schedule> resource is not present as a child resource then there are no time-constraints on the context of its parent resource. An Originator shall have the same access control privileges to the <schedule> resource as it has to its parent resource.

The detailed <schedule> resource description can be found in clause 9.6.9 of the TS-0001 [6].

Table 7.4.9.1‑1: Data type definition of <schedule> resource

|  |  |  |
| --- | --- | --- |
| Data Type ID | File Name | Note |
| schedule | CDT-schedule-v3\_5\_0.xsd |  |

Table 7.4.9.1‑2: Universal/Common Attributes of <schedule> resource

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

Table 7.4.9.1‑3: Resource Specific Attributes of <schedule> resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute Name | Request Optionality | | Data Type | Default Value and Constraints |
| Create | Update |
| scheduleElement | M | O | m2m:scheduleEntries | No Default and shall not be blank. |

The scheduleElement attribute represents the list of scheduled execution times.

The each entry of the scheduleElelement attribute shall consist of a line with 7 field values (See Table 7.4.9.1-4).

The time to be matched with the schedule pattern shall be interpreted in UTC timezone.

**Table 7.4.9.1‑4: Definition of m2m:scheduleEntry string format**

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Range of values** | **Note** |
| Second | 0 to 59 |  |
| Minute | 0 to 59 |  |
| Hour | 0 to 23 |  |
| Day of the month | 1 to 31 |  |
| Month of the year | 1 to 12 |  |
| Day of the week | 0 to 6 | 0 means Sunday |
| Year | 2000 to 9999 |  |

Each field value can be either an asterisk ('\*': matching all valid values), an element, or a list of elements separated by commas(',').

An element shall be either a number, a range (two numbers separated by a hyphen '-') or a range followed by a step value. A step value (a slash '/' followed by an interval number) specifies that values are repeated over and over with the interval between them. For example, note "0-23/2*"* in the Hour field is equivalent to "0,2,4,6,8,10,12,14,16,18,20,22*"*. A step value can also be used after an asterisk (e.g. "\*/2").

The task which shall be executed is depending on the parent resource of the <schedule> resource (see Table 7.4.9.1‑5).

**Table 7.4.9.1‑5: The task to be executed**

|  |  |  |
| --- | --- | --- |
| **Parent resource** | **Task to be executed** | **Note** |
| <remoteCSE> | Establish connection to the remoteCSE | Timing of disconnection is up to implementation in present release. |
| <subscription> | Flash spooled notifications |  |

EXAMPLE 1:

EXAMPLE: \* 0-5 2,6,10 \* \* \* \*

In case of parent resource was <remoteCSE>, the CSE will establish connection on 2:00-2:05, 6:00-6:05, and 10:00-10:05 every day.

End of EXAMPLE 1:

EXAMPLE 2:

EXAMPLE: \* \* 8-20 \* \* \* \*

In case of the parent resource was <subscription>, the notification for the subscribed event will be suspended between from 20:00 to 8:00 on weekend.

End of EXAMPLE 2:

EXAMPLE 3:

EXAMPLE: \* \* 0-23/2 \* \* \* \*

In case of parent resource was <remoteCSE>, the CSE will establish connection every two hours every day.

End of EXAMPLE 3:

EXAMPLE 4:

EXAMPLE: \* \* \* \* \* \*/2 \*

In case of parent resource was <remoteCSE>, the CSE will establish connection on Sunday, Tuesday, Thursday and Saturday (\*/2 in the day of the week field is equivalent to 0,2,4,6).

End of EXAMPLE 4:

**Table 7.4.9.1‑6: Child resources of <schedule > resource**

|  |  |  |  |
| --- | --- | --- | --- |
| **Child Resource Type** | Child Resource Name | **Multiplicity** | **Ref. to in Resource Type Definition** |
| Subscription | [variable] | 0..n | Clause 7.4.8 |

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

### -----------------------Start of change 3-------------------------------------------

#### Introduction

The <authorizationDecision> resource represents an access control decision. The detailed description can be found in clause 9.6.41 in TS-0001 [6].

Table 7.4.43.1‑1: Data type definition of <authorizationDecision> resource

|  |  |  |
| --- | --- | --- |
| **Data Type ID** | **File Name** | **Note** |
| authorizationDecision | CDT-authorizationDecision-v3\_5\_0.xsd |  |

Table 7.4.43.1‑2: Universal/Common Attributes of <authorizationDecision> 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 |
| *labels* | O | O |
| *dynamicAuthorizationConsultationIDs* | O | O |

Table 7.4.43.1‑3: Resource Specific Attributes of <authorizationDecision> resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute Name | Request Optionality | | Data Type | Default Value and Constraints |
| Create | Update |
| *decision* | NP | NP | m2m:authorizationDecision | No default |
| *status* | NP | NP | m2m:authorizationStatus | No default |
| *to* | O | O | xs:anyURI | No default |
| *from* | O | O | m2m:ID | No default |
| *operation* | O | O | m2m:operation | No default |
| *requestedResourceType* | O | O | m2m:resourceType | No default |
| *filterUsage* | O | O | m2m:filterCriteria | No default |
| *roleIDs* | O | O | List of m2m:roleID | No default |
| *tokenIDs* | O | O | List of m2m:tokenID | No default |
| *tokens* | O | O | List of m2m:dynAuthJWT | No default |
| *requestTime* | O | O | m2m:timestamp | No default |
| *originatorLocation* | O | O | m2m:locationRegion | No default |
| *originatorIP* | O | O | m2m:ipAddress | No default |

Table 7.4.43.1‑4: Child Resources of <authorizationDecision> resource

|  |  |  |  |
| --- | --- | --- | --- |
| Child Resource Type | Child Resource Name | Multiplicity | Ref. to Resource Type Definition |
| <subscription> | [variable] | 0..n | Clause 7.4.8 |

### -----------------------End of change 3-------------------------------------------

### -----------------------Start of change 4-------------------------------------------

#### Introduction

The <authorizationPolicy> resource represents a set of access control policies. The detailed description can be found in clause 9.6.42 in TS-0001 [6].

Table 7.4.44.1‑1: Data type definition of <authorizationPolicy> resource

|  |  |  |
| --- | --- | --- |
| **Data Type ID** | **File Name** | **Note** |
| authorizationPolicy | CDT-authorizationPolicy-v3\_5\_0.xsd |  |

Table 7.4.44.1‑2: Universal/Common Attributes of <authorizationPolicy> 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 |
| *labels* | O | O |
| *dynamicAuthorizationConsultationIDs* | O | O |

Table 7.4.44.1‑3: Resource Specific Attributes of <authorizationPolicy> resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute Name | Request Optionality | | Data Type | Default Value and Constraints |
| Create | Update |
| *policies* | NP | NP | m2m:setOfPermissions | No default |
| *combiningAlgorithm* | NP | NP | m2m:acpCombiningAlgorithm | No default |
| *status* | NP | NP | m2m:authorizationStatus | No default |
| *to* | O | O | xs:anyURI | No default |

Table 7.4.44.1‑4: Child Resources of <authorizationPolicy> resource

|  |  |  |  |
| --- | --- | --- | --- |
| Child Resource Type | Child Resource Name | Multiplicity | Ref. to Resource Type Definition |
| <subscription> | [variable] | 0..n | Clause 7.4.8 |

### -----------------------End of change 4-------------------------------------------

### -----------------------Start of change 5-------------------------------------------

#### Introduction

The <authorizationInformation> resource represents access control information. The detailed description can be found in clause 9.6.43 in TS-0001 [6].

Table 7.4.45.1‑1: Data type definition of <authorizationInformation> resource

|  |  |  |
| --- | --- | --- |
| **Data Type ID** | **File Name** | **Note** |
| authorizationInformation | CDT-authorizationInformation-v3\_5\_0.xsd |  |

Table 7.4.45.1‑2: Universal/Common Attributes of <authorizationInformation> resource

|  |  |  |
| --- | --- | --- |
| Attribute Name | Request Optionality | |
| Create | Update |
| @resourceName | O | NP |
| *resourceType* | NP | NP |
| *resourceID* | NP | NP |
| *parentID* | NP | NP |
| *accessControlInformationIDs* | O | O |
| *creationTime* | NP | NP |
| *expirationTime* | O | O |
| *lastModifiedTime* | NP | NP |
| *labels* | O | O |
| *dynamicAuthorizationConsultationIDs* | O | O |

Table 7.4.45.1‑3: Resource Specific Attributes of <authorizationInformation> resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute Name | Request Optionality | | Data Type | Default Value and Constraints |
| Create | Update |
| *status* | NP | NP | m2m:authorizationStatus | No default |
| *from* | O | O | m2m:ID | No default |
| *roleIDs* | O | O | List of m2m:roleID | No default |
| *tokenIDs* | O | O | List of m2m:tokenID | No default |

Table 7.4.45.1‑4: Child Resources of <authorizationInformation> resource

|  |  |  |  |
| --- | --- | --- | --- |
| Child Resource Type | Child Resource Name | Multiplicity | Ref. to Resource Type Definition |
| <role> | [variable] | 0..n | Clause 7.4.40 |
| <token> | [variable] | 0..n | Clause 7.4.41 |
| <subscription> | [variable] | 0..n | Clause 7.4.8 |

### -----------------------End of change 5-------------------------------------------

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.?