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| CHANGE REQUEST |
| Meeting ID:\* | SDS 43 |
| Source:\* | Bob Flynn, Convida Wireless , Bob.Flynn@convidawireless.com |
| Date:\* | 2019-11-19 |
| Reason for Change/s:\* | Fix editiorial text in <schedule> clause |
| CR against: Release\* | Rel-3 |
| CR against: WI\* | [ ]  Active <Work Item number> [x]  MNT maintenance / < Work Item number(optional)>Is this a mirror CR? Yes [ ]  No [ ] 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 v3.14.0 |
| Clauses \* | 7.4.9.1 |
| 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 |
| Other TS/TR(s) impacted | None |
| 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 [ ]  |
| Template Version: January 2019 (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

There is inconsistency in TS-0004 regarding the *accessControlPolicyIds* attribute for a <schedule> resource.

**Table 8.2.3‑1: Resource attribute short names (1/6)**

| **Attribute Name** | **Occurs in** | **Short Name** |
| --- | --- | --- |
| *accessControlPolicyIDs* | All except accessControlPolicy, contentInstance | ***acpi*** |

**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 |
| *accessControlPolicyIDs* | O | O |
| *dynamicAuthorizationConsultationIDs* | O | O |

Yet the description of <schedule> indicates that the *accessControlPolicyIDs* is not present.

NOTE: We should consider removing all of the introduction, with the understanding that this information should be provided in TS-0001 and not duplicated in TS-0004

#### 7.4.9.1 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].

This inconsistency was introduced in ARC-0303-DM\_and\_Node\_management\_cleanup\_Rel3 and PRO-2018-0233-TS-0004\_adding\_acpID\_to\_schedule. This contribution fixes the inconsistency.

NOTE: These changes only applied to Rel3 and forward.

-------------------------------------------------- Start of Change 1--------------------------------------------------

#### 7.4.9.1 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.

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\_14\_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 |
| *accessControlPolicyIDs* | O | O |
| *dynamicAuthorizationConsultationIDs* | 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. |
| *networkCoordinated* | O | O | xs:boolean | This attribute is only applicable when <schedule> is a child resource of <node>.Default value is false. |

The scheduleElement attribute represents the list of scheduled execution times.

Each entry of the scheduleElement 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").

EXAMPLE 1:

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

If the parent resource is a <node>, the Hosting CSE will forward requests to an AE or CSE hosted on the corresponding node during the time windows 2:00-2:05, 6:00-6:05, and 10:00-10:05 every day.

End of EXAMPLE 1:

EXAMPLE 2:

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

If the parent resource is a <subscription>, the Hosting CSE will not send notifications for the subscribed-to event between the hours of 20:00 and 8:00 every day.

End of EXAMPLE 2:

EXAMPLE 3:

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

If the parent resource is a <node>, the Hosting CSE will forward requests to an AE or CSE hosted on the corresponding node for an hour every other hour of every day.

End of EXAMPLE 3:

EXAMPLE 4:

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

If the parent resource is a <node>, the Hosting CSE will forward requests to an AE or CSE hosted on the corresponding node on Sundays, Tuesdays, Thursdays and Saturdays (\*/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 |
| <transaction> | [variable] | 0..n | Clause 7.4.61 |

-------------------------------------------------- End of Change 1---------------------------------------------------