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| CHANGE REQUEST |
| Meeting ID:\* | SDS 42 |
| Source:\* | Bob Flynn, Convida Wireless , Bob.Flynn@convidawireless.com |
| Date:\* | 2019-09-13 |
| Reason for Change/s:\* | Core oneM2M for Device Connection Efficiency (DCE) |
| CR against: Release\* | Rel-4 |
| CR against: WI\* | [x]  Active <Work Item number> [ ]  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\* | TR-0024v4\_2\_0 |
| Clauses \* |  |
| 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 |
| 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

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

## x.3 Solutions

*Editor's Note: This clause will contain the solutions that address the key issues in this area.*

### x.3.n Solution #y.1: TS.34\_4\_1\_004

*Editor's Note: Solutions within the area are not in any particular order but they are added incrementally (n = 1, 2, 3…) when new solution is identified. 'y' refers to the area.*

#### x.3.n.1 Introduction

*Editor's Note: Each solution should list the key issues that it addresses. There may be references to the key issues outside the area.*

TS.34:

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| TS.34\_4.1\_REQ\_004 | When an IoT Device Application does not need to perform regular data transmissions and it can tolerate some latency for its IoT Service, it should communicate this information to the IoT Embedded Service Layer so that it can use this information in its interactions with the network.. |

This feature is supported the the <schedule> resource and the *activityPatternElements* attribute of the <AE> and <remoteCSE>.

A procedure should be defined to automatically create these resources for an application, either policy based (like CMDH) or CSE defaults, such that for this type of ASN-CSE, this requirement is met by default. The policy should be editable, but not deletable. Ideally, the CMDH policy is on the IN-CSE and announced to applicable ASN-CSE’s.

For example, when <AE> is created, the *activityPatternElements* is populated by default/policy if not in the CREATE request.

ASN-CSE needs to apply all specified schedules to communications using the CN.

* A child <*schedule*> resource of the <*CSEBase*> resource shall indicate the anticipated time periods when the CSE is available for processing.

We need to define how to combine *activityPatternElements* of <AE> resources and <schedule> of <node> resources and <schedule> of <cseBase> for proper representation of the communication times of this type of ASN-CSE.

ADD MORE DISCUSSION IN REVISION – depict all of the relevant parameters as implied above to show relationship and propose a solution.

1. The MNO and/or the SP may want to control the CSEBase <schedule> and require that all applications fall into the specified <schedule>
2. The AE’s registered to the ASN-CSE may provide a *activityPatternElements* that are used to create the <schedule> of CSEBase.
3. Do we use the <schedule> from CSEBase or from <node> for an ASN-CSE?
	1. Should there be a <node> for the Host CSE or just registered CSEs? Without <node> we lose our device management functionality.
	2. Do we have clearly defined mechanism for DM of Host CSE? i.e. Where should <mgmtObjs> be created? If only Registrar CSE, this may impact some other TS.34 requirements.
4. …?

#### x.3.n.2 Solution details

*Editor's Note: This clause will describe the solution.*

#### x.3.n.3 Evaluation

*Editor's Note: This clause will contain a variety of evaluations of this solution.*

EDITORS NOTE: Each evaluation will include the requirement ID(s) from GSMA TS.34 that is solved with the proposed solution

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

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