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| CHANGE REQUEST | |
| Meeting ID:\* | ARC 37 |
| Source:\* | Bob Flynn, Convida Wireless, [Flynn.Bob@ConvidaWireless.com](mailto:Flynn.Bob@ConvidaWireless.com)  Dale Seed, Convida Wireless, [Seed.Dale@ConvidaWireless.com](mailto:Seed.Dale@ConvidaWireless.com) |
| Date:\* | 2018-09-16 |
| Reason for Change/s:\* | See the introduction |
| CR against: Release\* | Release 3 |
| CR against: WI\* | Active - WI-  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-0001 Version 3.12.0 |
| Clauses \* | 9.6.60, 9.6.45 |
| 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

During PRO 36.2 several inconsistencies were identified. They are all editorial in nature.

 **Action:** raise a CR against <backgroundDataTransfer> in TS-0001 (*announcedTo* should be *creator*)

Change 1

 **Action**: raise CR against <timeSeries> and <timeSeriesAnnc> in TS-0001 to add <semanticDescriptor> or <semanticDescriptorAnnc> child resources

Table 9.6.36-1: Child resources of <timeSeries> resource shows <semanticDescriptor>

 **Action**: raise CR against <AEContactList> in TS-0001 to add <transaction> child resource

Change 2

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

### 9.6.60 Resource Type *backgroundDataTransfer*

The <*backgroundDataTransfer*> resource is used to request that the IN-CSE negotiates a background data transfer for a set of field nodes, with the Underlying Network. The resource attributes provide the characteristics of the background data transfer, optional guidance for transfer policy selection and the field nodes involved with the data transfer.

The *<backgroundDataTransfer>* resource contains the child resources specified in table 9.6.60-1.

Table 9.6.60-1: Child resources of *<backgroundDataTransfer>* resource

| **Child Resources of <*backgroundDataTransfer*>** | Child Resource Type | Multiplicity | Description | **<*backgroundDataTransfer*> Child Resource Types** |
| --- | --- | --- | --- | --- |
| *[variable]* | *<subscription>* | 0..n | See clause 9.6.8. | <*subscription*> |

The <*backgroundDataTransfer*> resource contains the attributes specified in table 9.6.60-2.

Table 9.6.60-2: Attributes of *<backgroundDataTransfer>* resource

| Attributes of *< backgroundDataTransfer >* | Multiplicity | RW/  RO/  WO | Description |
| --- | --- | --- | --- |
| *resourceType* | 1 | RO | See clause 9.6.1.3 |
| *resourceID* | 1 | RO | See clause 9.6.1.3 |
| *resourceName* | 1 | WO | See clause 9.6.1.3 |
| *parentID* | 1 | RO | See clause 9.6.1.3 |
| *creationTime* | 1 | RO | See clause 9.6.1.3 |
| *lastModifiedTime* | 1 | RO | See clause 9.6.1.3 |
| *expirationTime* | 1 | RW | See clause 9.6.1.3 |
| *accessControlPolicyIDs* | 0..1 (L) | RW | See clause 9.6.1.3 |
| *dynamicAuthorizationConsultationIDs* | 0..1 (L) | RW | See clause 9.6.1.3. |
| *labels* | 0..1 (L) | RW | See clause 9.6.1.3. |
|  |  |  |  |
| *creator* | 1 | RO | See clause 9.6.1.3 |
| *volumePerNode* | 1 | WO | Expected data volume for the background data transfer. |
| *numberOfNodes* | 1 | WO | Desired number of nodes for the background data transfer. |
| *desiredTimeWindow* | 0..1 | WO | Desired time window for the background data transfer. |
| *transferSelectionGuidance* | 0..1(L) | WO | List that includes guidance to IN-CSE in selecting from multiple transfer policies provided by underlying network. Possible values include:” lowest cost”, “highest throughput given maximum cost of X”, etc.  If not included, the IN-CSE may independently choose from among multiple transfer policies. |
| *geographicInformation* | 0..1 | WO | Provides geographic information for the policy request |
| *groupLink* | 0..1 | RW | This attribute shall be used if the background data transfer is requested for sending a request to a group of field domain nodes. It is assumed that a <*group*> resource, with a *memberIDs* list including all field domain nodes that need to be reached, has already been created. This attribute contains the *resource identifier* of the *<group>* resource of field domain nodes for which the background data transfer applies.  The *backgroundDataTransfer* resource may have either a *groupLink* attribute or a list of *memberIDs.* If the *memberIDs* attribute contains a valid list of member resource IDs, the *groupLink* attribute shall be ignored. |
| *memberIDs* | 0..1 (L) | RW | List of member resource IDs for which the transfer policy applies. The valid resource types are <remoteCSE> and <AE>.  The *backgroundDataTransfer* resource may have either a *groupLink* attribute or a list of *memberIDs.* If the *memberIDs* attribute contains a valid list of member resource IDs, the *groupLink* attribute shall be ignored. |

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

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

### 9.6.45 Resource Type *AEContactList*

An *<AEContactList>* resource shall contain *<AEContactListPerCSE>* child resources, one for each CSE that has sent a NOTIFY request to the CSE about the creation, update, or deletion of a resource that references an Application Entity resource identifier. The <*AEContactList*> resource shall only be created as a child of <*CSEBase*> in the IN-CSE.

The *<AEContactList>* resource shall contain the child resources specified in table 9.6. 45-2.

Table 9.6. 45-1: Child resources of *<AEContactList>* resource

| Child Resources of *<AEContactList>* | Child Resource Type | Multiplicity | Description |
| --- | --- | --- | --- |
| *[variable]* | *<subscription>* | 0..n | See clause 9.6.8 |
| *[variable]* | *<AEContactListPerCSE>* | 0..n | See clause 9.6.46 |
| *[variable]* | *<transaction>* | 0..n | See clause 9.6.48 |

The *<AEContactList>* resource shall contain the attributes specified in table 9.6.45-3.

Table 9.6.45-2: Attributes of *<AEContactList>* resource

| Attributes of  *< AEContactList >* | Multiplicity | RW/  RO/  WO | Description |
| --- | --- | --- | --- |
| *resourceType* | 1 | RO | See clause 9.6.1.3. |
| *resourceID* | 1 | RO | See clause 9.6.1.3. |
| *resourceName* | 1 | RO | See clause 9.6.1.3. |
| *parentID* | 1 | RO | See clause 9.6.1.3. |
| *expirationTime* | 1 | RO | See clause 9.6.1.3. |
| *accessControlPolicyIDs* | 0..1 (L) | RO | See clause 9.6.1.3. |
| *dynamicAuthorizationConsultationIDs* | 0..1 (L) | RW | See clause 9.6.1.3. |
| *creationTime* | 1 | RO | See clause 9.6.1.3. |
| *lastModifiedTime* | 1 | RO | See clause 9.6.1.3. |
| *labels* | 0..1 (L) | RO | See clause 9.6.1.3. |
| *numberImpactedCSEs* | 1 | RO | The number of Hosting CSEs that have reported that they have a reference to an Application Entity resource identifier |

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

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

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

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.?