|  |  |
| --- | --- |
| CHANGE REQUEST | |
| Meeting ID:\* | ARC 36 |
| Source:\* | Bob Flynn, Convida Wireless; [Bob.Flynn@convidawireless.com](mailto:Bob.Flynn@convidawireless.com) |
| Date:\* | 2018-07-08 |
| Reason for Change/s:\* | Updates related to HAIM |
| CR against: Release\* | Rel 3 |
| CR against: WI\* | Active <Work Item number>  MNT maintenance / < Work Item number(optional)>WI-0055  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-0031 V0.3.2 |
| Clauses \* | 6.6, 6.11 |
| 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) | |

**oneM2M Notice**

The document to which this cover statement is attached is submitted to oneM2M. Participation in, or attendance at, any activity of oneM2M, constitutes acceptance of and agreement to be bound by terms of the Working Procedures and the Partnership Agreement, including the Intellectual Property Rights (IPR) Principles Governing oneM2M Work found in Annex 1 of the Partnership Agreement.

# Introduction

This contribution adds blocking subscription feature needed to model action class of HAIM model.

It also adds specific features for the device models defined in TS-0023.

FlexContainers are already defined in section 6.3.3

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

## 6.6 Subscription (SUB)

### 6.6.1 Configuration of subscription for data Notification

The Feature Set below is about CSE supporting configuration of subscription.

Table 6.6.1-1: Features of CE/SUB/00001

|  |  |  |
| --- | --- | --- |
| **Feature ID** | **Feature Description** | **Release** |
| *CE/SUB/00001/00001* | The Support of <subscription> resource with attributes multiplicity equals 1[1] | 1, 2 |
| *CE/SUB/00001/00002* | Support *notificationSchedule* feature | 1, 2 |

The Feature Set below is about CSE supporting configuration of policies related to notification.

Table 6.6.1-2: Features of CE/SUB/00002

|  |  |  |
| --- | --- | --- |
| **Feature ID** | **Feature Description** | **Release** |
| *CE/SUB/00002/00001* | Support the *expirationCounter* attribute of <subscription> resource | 1, 2 |
| *CE/SUB/00002/00002* | Support the *batchNotify* attribute of <subscription> resource | 1, 2 |
| *CE/SUB/00002/00003* | Support the *rateLimit* attribute of <subscription> resource | 1, 2 |
| *CE/SUB/00002/00004* | Support the *preSubscriptionNotify* attribute of <subscription> resource | 1, 2 |
| *CE/SUB/00002/00005* | Support the *pendingNotification* attribute of <subscription> resource | 1, 2 |
| *CE/SUB/00002/00006* | Support thenotification congestion policy features | 1, 2 |
| *CE/SUB/00002/00007* | Support the *latestNotify* attribute of <subscription> resource | 1, 2 |
| *CE/SUB/00002/00008* | Support the *notificationEventCat* attribute of <subscription> resource | 1, 2 |
| *CE/SUB/00002/00009* | Support the eventNotificationCriteria (all) attribute of <subscription> resource | 1, 2 |

The Feature Set below is about CSE supporting configuration of subscription through group.

Table 6.6.1-3: Features of CE/SUB/00003

|  |  |  |
| --- | --- | --- |
| **Feature ID** | **Feature Description** | **Release** |
| *CE/SUB/00003/00001* | Support the *groupID* attribute of <subscription> resource | 1, 2 |
| *CE/SUB/00003/00002* | Support the *notificationForwardingURI* attribute of <subscription> resource. | 1, 2 |

The Feature Set below is about AE supporting configuration of subscription.

Table 6.6.1-4: Features of AE/SUB/00001

|  |  |  |
| --- | --- | --- |
| **Feature ID** | **Feature Description** | **Release** |
| *AE/SUB/00001/00001* | Create <subscription> with mandatory attributes [2] | 1, 2 |
| *AE/SUB/00001/00002* | Create <subscription> with *labels* attribute | 1, 2 |
| *AE/SUB/00001/00003* | Create <subscription> with *expirationTime* attribute | 1, 2 |
| *AE/SUB/00001/00004* | Create <subscription> with *creator* attribute | 1, 2 |
| *AE/SUB/00001/00005* | Create <subscription> with *subscriberURI* attribute | 1, 2 |
| *AE/SUB/00001/00006* | Update <subscription> with *labels* attribute | 1, 2 |
| *AE/SUB/00001/00007* | Update <subscription> with *expirationTime* attribute | 1, 2 |
| *AE/SUB/00001/00008* | Update <subscription> with *creator* attribute | 1, 2 |
| *AE/SUB/00001/00009* | Delete <Subscription> | 1, 2 |
| *AE/SUB/00001/00010* | Retrieve <Subscription> | 1, 2 |

The Feature Set below is about AE supporting configuration of policies related to notification.

Table 6.6.1-5: Features of AE/SUB/00002

|  |  |  |
| --- | --- | --- |
| **Feature ID** | **Feature Description** | **Release** |
| *AE/SUB/00002/00001* | Create <subscription> with *eventNotificationCriteria* attribute | 1, 2 |
| *AE/SUB/00002/00002* | Create <subscription> with *expirationCounter* attribute | 1, 2 |
| *AE/SUB/00002/00003* | Create <subscription> with *batchNotify* attribute | 1, 2 |
| *AE/SUB/00002/00004* | Create <subscription> with *rateLimit* attribute | 1, 2 |
| *AE/SUB/00002/00005* | Create <subscription> with *preSubscriptionNotify* attribute | 1, 2 |
| *AE/SUB/00002/00006* | Create <subscription> with *pendingNotification* attribute | 1, 2 |
| *AE/SUB/00002/00007* | Create <subscription> with *notificationStoragePriority* attribute | 1, 2 |
| *AE/SUB/00002/00008* | Create <subscription> with *latestNotify* attribute | 1, 2 |
| *AE/SUB/00002/00009* | Create <subscription> with *notificationContentType* attribute | 1, 2 |
| *AE/SUB/00002/00010* | Create <subscription> with *notificationEventCat* attribute | 1, 2 |
| *AE/SUB/00002/00011* | Update <subscription> with *eventNotificationCriteria* attribute | 1, 2 |
| *AE/SUB/00002/00012* | Update <subscription> with *expirationCounter* attribute | 1, 2 |
| *AE/SUB/00002/00013* | Update <subscription> with *batchNotify* attribute | 1, 2 |
| *AE/SUB/00002/00014* | Update <subscription> with *rateLimit* attribute | 1, 2 |
| *AE/SUB/00002/00015* | Update <subscription> with *pendingNotification* attribute | 1, 2 |
| *AE/SUB/00002/00016* | Update <subscription> with *notificationStoragePriority* attribute | 1, 2 |
| *AE/SUB/00002/00017* | Update <subscription> with *latestNotify* attribute | 1, 2 |
| *AE/SUB/00002/00018* | Update <subscription> with *notificationContentType* attribute | 1, 2 |
| *AE/SUB/00002/00019* | Update <subscription> with *notificationEventCat* attribute | 1, 2 |

The Feature Set below is about AE supporting configuration of subscription through group.

Table 6.6.1-6: Features of AE/SUB/00003

|  |  |  |
| --- | --- | --- |
| **Feature ID** | **Feature Description** | **Release** |
| *AE/SUB/00003/00001* | Create <subscription> with *notificationForwardingURI* attribute | 1, 2 |

### 6.6.2 Trigger notification pertaining to subscription

The Feature Set below is about CSE supporting trigger notification pertaining to subscription.

Table 6.6.2-1: Features of CE/SUB/00004

|  |  |  |
| --- | --- | --- |
| **Feature ID** | **Feature Description** | **Release** |
| *CE/SUB/00004/00001* | Notify the address indicated in *notificationURI* with notification elements multiplicity equals 1 [2] | 1, 2 |
| *CE/SUB/00004/00002* | Notify with notificationEvent/representation set in the notification | 1, 2 |
| *CE/SUB/00004/00003* | Support of subscription verification | 1, 2 |
| *CE/SUB/00004/00004* | Support subscriptions with *notificationEventType* equal to “G” [1] | 3 |

The Feature Set below is about AE supporting reception of notification.

Table 6.7.2-2: Features of AE/SUB/00004

|  |  |  |
| --- | --- | --- |
| **Feature ID** | **Feature Description** | **Release** |
| *AE/SUB/00004/00001* | Respond to a notification | 1,2,3 |
| *AE/SUB/00004/00002* | Respond to a notification where *notificationEventType* equal to “G” [1] | 3 |

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

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

6.11 Home Automation Information Modeling (HAIM)

### 6.11.1 Modeling of HAIM devices

The feature set below is about the AE supporting generation of HAIM.

Table 6.11.1-1: Features of AE/HAIM/00001

|  |  |  |
| --- | --- | --- |
| **Feature ID** | **Feature Description** | **Release** |
| *AE/HAIM/00001/00001* | Support for device3Dprinter information model | 3 |
| *AE/HAIM/00001/00002* | Support for deviceAirConditioner information model | 3 |
| *AE/HAIM/00001/00003* | Support for *deviceAirPurifier* information model | 3 |
| *AE/HAIM/00001/00004* | Support for *deviceAirQualityMonitor* information model | 3 |
| *AE/HAIM/00001/00005* | Support for *deviceAudioReceiver* information model | 3 |
| *AE/HAIM/00001/00006* | Support for *deviceBloodPressureMonitor* information model | 3 |
| *AE/HAIM/00001/00007* | Support for *deviceCamera* information model | 3 |
| *AE/HAIM/00001/00008* | Support for *deviceClothesDryer* information model | 3 |
| *AE/HAIM/00001/00009* | Support for *deviceClothesWasher* information model | 3 |
| *AE/HAIM/00001/00010* | Support for *deviceClothesWasherDryer* information model | 3 |
| *AE/HAIM/00001/00011* | Support for *deviceCoffeeMachine* information model | 3 |
| *AE/HAIM/00001/00012* | Support for *deviceCookerHood* information model | 3 |
| *AE/HAIM/00001/00013* | Support for *deviceCooktop* information model | 3 |
| *AE/HAIM/00001/00014* | Support for *deviceDehumidifier* information model | 3 |
| *AE/HAIM/00001/00015* | Support for *deviceDishwasher* information model | 3 |
| *AE/HAIM/00001/00016* | Support for *deviceDoor* information model | 3 |
| *AE/HAIM/00001/00017* | Support for *deviceDoorLock* information model | 3 |
| *AE/HAIM/00001/00018* | Support for *deviceElectricVehicleCharger* information model | 3 |
| *AE/HAIM/00001/00019* | Support for *deviceFan* information model | 3 |
| *AE/HAIM/00001/00020* | Support for *deviceFoodProbe* information model | 3 |
| *AE/HAIM/00001/00021* | Support for *deviceFreezer* information model | 3 |
| *AE/HAIM/00001/00022* | Support for *deviceGlucosemeter* information model | 3 |
| *AE/HAIM/00001/00023* | Support for *deviceHeartRateMonitor* information model | 3 |
| *AE/HAIM/00001/00024* | Support for *deviceHomeCCTV* information model | 3 |
| *AE/HAIM/00001/00025* | Support for *deviceHumidifier* information model | 3 |
| *AE/HAIM/00001/00026* | Support for *deviceKettle* information model | 3 |
| *AE/HAIM/00001/00027* | Support for *deviceLight* information model | 3 |
| *AE/HAIM/00001/00028* | Support for *deviceMicrogeneration* information model | 3 |
| *AE/HAIM/00001/00029* | Support for *deviceMultifunctionPrinter* information model | 3 |
| *AE/HAIM/00001/00030* | Support for *deviceOutdoorLamp* information model | 3 |
| *AE/HAIM/00001/00031* | Support for *deviceOven* information model | 3 |
| *AE/HAIM/00001/00032* | Support for *devicePrinter* information model | 3 |
| *AE/HAIM/00001/00033* | Support for *devicePulseOximeter* information model | 3 |
| *AE/HAIM/00001/00034* | Support for *deviceRefrigerator* information model | 3 |
| *AE/HAIM/00001/00035* | Support for *deviceRobotCleaner* information model | 3 |
| *AE/HAIM/00001/00036* | Support for *deviceScanner* information model | 3 |
| *AE/HAIM/00001/00037* | Support for *deviceSecurityPanel* information model | 3 |
| *AE/HAIM/00001/00038* | Support for *deviceSetTopBox* information model | 3 |
| *AE/HAIM/00001/00039* | Support for *deviceSmartElectricMeter* information model | 3 |
| *AE/HAIM/00001/00040* | Support for *deviceSmartPlug* information model | 3 |
| *AE/HAIM/00001/00041* | Support for *deviceSteamCloset* information model | 3 |
| *AE/HAIM/00001/00042* | Support for *deviceStorageBattery* information model | 3 |
| *AE/HAIM/00001/00043* | Support for *deviceSwitch* information model | 3 |
| *AE/HAIM/00001/00044* | Support for *deviceTelevision* information model | 3 |
| *AE/HAIM/00001/00045* | Support for *deviceThermometer* information model | 3 |
| *AE/HAIM/00001/00046* | Support for *deviceThermostat* information model | 3 |
| *AE/HAIM/00001/00047* | Support for *deviceWaterHeater* information model | 3 |
| *AE/HAIM/00001/00048* | Support for *deviceWaterValve* information model | 3 |
| *AE/HAIM/00001/00049* | Support for *deviceWeightScaleAndBodycompositionAnalyser* information model | 3 |
| *AE/HAIM/00001/00050* | Support for *deviceWindowShade* information model | 3 |
|  |  |  |

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