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| CHANGE REQUEST |
| Meeting ID:\* | ARC 36 |
| Source:\* | Bob Flynn, Convida Wireless; 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> [x]  MNT maintenance / < Work Item number(optional)>WI-0055Is this a mirror CR? Yes [ ]  No [x] 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[x]  Change to existing feature or functionality[ ]  New feature or functionalityOnly 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 [x]  NO [ ] This CR may break backwards compatibility with the last approved version of the TS? YES [ ]  NO [x]  |
| Template Version: January 2017 (Do not modify) |

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# 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-------------------------------------------