|  |  |
| --- | --- |
| HANGE REQUEST | |
| Meeting ID:\* | TDE 43.3 |
| Source:\* | Bob Flynn (Convida wireless); bob.flynn@chordant.io |
| Date:\* | 2020-02-04 |
| Reason for Change/s:\* | MgmtObj Test Purposes |
| CR against: Release\* | Rel-3 |
| CR against: WI\* | 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\* | TS-0013 v2.6.0 |
| Clauses \* |  |
| 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 |
| Other TS/TR(s) impacted | None |
| 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 2019 (do not modify) | |

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# Introduction

This contribution attempts to create new test objectives for the HAIM models defined in TS-0023.

Four test objectives are defined:

TD/M2M/MH/01 – Create HAIM Light Device Model

TD/M2M/MH/02 – Read status of a light device

TD/M2M/MH/03 – Turn the Light Device ON

TD/M2M/MH/04 – Turn the Light Device OFF

### -----------------------Start of new text 1-------------------------------------------

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

#### 8.5.1 HAIM Light Device Creation

| **Interoperability Test Description** | | | |
| --- | --- | --- | --- |
| **Identifier:** | | | TD\_M2M\_NH\_01 |
| **Objective:** | | | AE1 creates a HAIM Light Device Model |
| **Configuration:** | | | M2M\_CFG\_10 |
| **References:** | | | oneM2M TS-0023 [1], clause 5.5.27 |
|  | | | |
| **Pre-test conditions:** | | | * AE1 has created an application resource <AE> on registrar CSE |
| **Test Sequence** | | | |
| **Step** | **RP** | **Type** | **Description** |
| 1 |  | Stimulus | AE1 sends a request to create a <flexContainer> for deviceLight |
| 2 | Mca | PRO Check Primitive | * op = 1 (Create) * to = {CSEBaseName}/URI of <AE> resource * fr = AE-ID * rqi = (token-string) * ty = 28 (flexContainer) * pc = Serialized representation of <flexContainer> resource with proper *containerDefinition* |
| 3 |  | IOP Check | Check if possible that the <flexContainer> resource is created in registrar CSE. |
| 4 | Mca | PRO Check Primitive | * rsc = 2001 (CREATED) * rqi = (token-string) same as received in request message * pc = Serialized representation of <flexContainer> resource |
| 5 |  | IOP Check | AE indicates successful operation |
| 6 |  | Stimulus | AE1 sends a request to create a <flexContainer> for binarySwitch |
| 7 | Mca | PRO Check Primitive | * op = 1 (Create) * to = {CSEBaseName}/URI of <AE> resource/resource name of deviceLight * fr = AE-ID * rqi = (token-string) * ty = 28 (flexContainer)   pc = Serialized representation of <flexContainer> resource with proper *containerDefinition* |
| 8 |  | IOP Check | Check if possible that the <flexContainer> resource is created in registrar CSE. |
| 9 | Mca | PRO Check Primitive | * rsc = 2001 (CREATED) * rqi = (token-string) same as received in request message   pc = Serialized representation of <flexContainer> resource |
| 10 |  | IOP Check | AE indicates successful operation |
| Note | | Optional: Repeat steps 5-10 for additional deviceLight Modules | |
| IOP Verdict | |  | |
| PRO Verdict | |  | |

#### 8.5.2 HAIM Light Device Status Read

| **Interoperability Test Description** | | | |
| --- | --- | --- | --- |
| **Identifier:** | | | TD\_M2M\_NH\_02 |
| **Objective:** | | | AE2 reads the status of a HAIM Light Device Model |
| **Configuration:** | | | M2M\_CFG\_10 |
| **References:** | | | oneM2M TS-0023 [1], clause 5.5.27, 5.3.12 |
|  | | | |
| **Pre-test conditions:** | | | * AE2 has created an application resource <AE> on registrar CSE * AE1 has created a HAIM Light Device model |
| **Test Sequence** | | | |
| **Step** | **RP** | **Type** | **Description** |
| 1 |  | Stimulus | AE1 sends a request to retrieve a <flexContainer> for binarySwitch |
| 2 | Mca | PRO Check Primitive | * op = 2 (Retrieve) * to = {CSEBaseName}/URI of <deviceLight> resource/binarySwitch * fr = AE-ID * rqi = (token-string) |
| 3 | Mca | PRO Check Primitive | * rsc = 2000 (OK) * rqi = (token-string) same as received in request message * pc = Serialized representation of <flexContainer> resource |
| 4 |  | IOP Check | AE indicates successful operation |
| Note | | Optional: Repeat steps 1-4 for additional deviceLight Modules | |
| IOP Verdict | |  | |
| PRO Verdict | |  | |

#### 8.5.3 HAIM Light Device Update

| **Interoperability Test Description** | | | |
| --- | --- | --- | --- |
| **Identifier:** | | | TD\_M2M\_NH\_03 |
| **Objective:** | | | AE2 turns the binarySwitch of a HAIM Light Device Model “ON” or “OFF” |
| **Configuration:** | | | M2M\_CFG\_10 |
| **References:** | | | oneM2M TS-0023 [1], clause 5.5.27 |
|  | | | |
| **Pre-test conditions:** | | | * AE2 has created an application resource <AE> on registrar CSE * AE1 has created a HAIM Light Device model |
| **Test Sequence** | | | |
| **Step** | **RP** | **Type** | **Description** |
| 1 |  | Stimulus | AE1 sends a request to create a <flexContainer> for deviceLight |
| 2 | Mca | PRO Check Primitive | * op = 3 (Update) * to = {CSEBaseName}/ URI of <deviceLight> resource/binarySwitch * fr = AE-ID * rqi = (token-string) * pc = Serialized representation of <flexContainer> resource with new value for binarySwitch status |
| 3 |  | IOP Check | Check if possible that the <flexContainer> resource is updates in registrar CSE. |
| 4 | Mca | PRO Check Primitive | * rsc = 2004 (UPDATED) * rqi = (token-string) same as received in request message * pc = Serialized representation of <flexContainer> resource |
| 5 |  | IOP Check | AE indicates successful operation |
| Note | | Optional: Repeat steps 1-5 for additional device states and settings | |
| IOP Verdict | |  | |
| PRO Verdict | |  | |

#### 8.5.4 HAIM Light Device Toggle Action

| **Interoperability Test Description** | | | |
| --- | --- | --- | --- |
| **Identifier:** | | | TD\_M2M\_NH\_04 |
| **Objective:** | | | AE2 toggles the state of a HAIM Light Device Model |
| **Configuration:** | | | M2M\_CFG\_10 |
| **References:** | | | oneM2M TS-0023 [1], clause 5.5.27 |
|  | | | |
| **Pre-test conditions:** | | | * AE2 has created an application resource <AE> on registrar CSE * AE1 has created a HAIM Light Device model |
| **Test Sequence** | | | |
| **Step** | **RP** | **Type** | **Description** |
| 1 |  | Stimulus | AE1 sends a request to create a <flexContainer> for deviceLight |
| 2 | Mca | PRO Check Primitive | * op = 3 (Update) * to = {CSEBaseName}/ URI of <deviceLight> resource/binarySwitch/toggle * fr = AE-ID * rqi = (token-string) * pc = Serialized representation of <flexContainer> resource for toggle action |
| 3 |  | IOP Check | Check if possible that the <flexContainer> resource is updates in registrar CSE. |
| 4 | Mca | PRO Check Primitive | * rsc = 2004 (UPDATED) * rqi = (token-string) same as received in request message * pc = Serialized representation of <flexContainer> resource |
| 5 |  | IOP Check | AE indicates successful operation |
| Note | | Optional: Repeat steps 1-5 for additional device states and settings | |
| IOP Verdict | |  | |
| PRO Verdict | |  | |

### -----------------------Start of new text 2-------------------------------------------

#### 7.1.1.3 M2M\_CFG\_10

oneM2M entities model



Note: For HAIM Model tests, clause 8.5, AE1 represents a native oneM2M device that implements the HAIM models or a combined IPE(AE) plus a non-oneM2M device node (nodn) .

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