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| INPUT CONTRIBUTION |
| Group Name:\* | TDE |
| Title:\* | Interop test cases for schedule |
| Source:\* | KETI and EGM |
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| Date:\* | 2020-10-06 |
| Abstract:\* | The contribution proposes some Interoperability Test Descriptions for schedule management to be added to TS-0013 |
| Agenda Item:\* | TBD |
| Work item(s): |  |
| Document(s) Impacted\* | TS-0013 |
| Intended purpose ofdocument:\* | [x]  Decision[x]  Discussion[ ]  Information[ ]  Other <specify> |
| Decision requested or recommendation:\* | Incorporate the proposed text into TS-0013 |

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1. **Introduction**

This contribution consists of some test descriptions about Schedule management to be included into the TS-0013.

The clause numbers and the TD identifier names in the following proposal may change when included in to TS-0013.

1. **Proposal**

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

## 8.1 No Hop configuration testing

### 8.1.22 Schedule management

#### 8.1.22.1 Schedule Create

| **Interoperability Test Description** |
| --- |
| **Identifier:** | TD\_M2M\_NH\_155 |
| **Objective:** | AE creates a Schedule resource in Registrar CSE via a Schedule Create Request |
| **Configuration:** | M2M\_CFG\_01 |
| **References:** | oneM2M TS-0001 [1], clause 10.2.17.2oneM2M TS-0004 [2], clause 7.4.9.2.1 |
|  |
| **Pre-test conditions:** | * AE has created an application resource <AE> on Registrar CSE
 |
|  |  |
| **Test Sequence** |
| **Step** | **RP** | **Type** | **Description** |
| 1 |  | Stimulus | AE sends a request to create a <schedule> |
| 2 | Mca | PRO Check Primitive  | * op = 1 (Create)
* to = {CSEBaseName}
* fr = AE-ID
* rqi = (token-string)
* ty = 18 (schedule)
* pc = Serialized representation of <schedule> resource
 |
| 3 |  | IOP Check | Check if possible that the <schedule> 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 <schedule> resource
 |
| 5 |  | IOP Check | AE indicates successful operation |
| IOP Verdict |  |
| PRO Verdict |  |

#### 8.1.22.2 Schedule Retrieve

| **Interoperability Test Description** |
| --- |
| **Identifier:** | TD\_M2M\_NH\_156 |
| **Objective:** | AE retrieves information of a schedule resource via a schedule Retrieve Request |
| **Configuration:** | M2M\_CFG\_01 |
| **References:** | oneM2M TS-0001 [1], clause 10.2.17.3oneM2M TS-0004 [2], clause 7.4.9.2.2 |
|  |
| **Pre-test conditions:** | * AE has created an Application Entity resource <AE> on Registrar CSE
* AE has created a schedule resource <schedule> as child resource of <CSEBase> resource
 |
| **Test Sequence** |
| **Step** | **RP** | **Type** | **Description** |
| 1 |  | Stimulus | AE is requested to send a Retrieve Request for a <schedule> |
| 2 | Mca | PRO Check Primitive  | * op = 2 (Retrieve)
* to = {CSEBaseName}/URI of <schedule> resource
* fr = AE-ID
* rqi = (token-string)
* pc = empty
 |
| 3 | Mca | PRO Check Primitive | * rsc =2000 (OK)
* rqi = (token-string) same as received in request message
* pc = Serialized representation of <schedule> resource
 |
| 4 |  | IOP Check | AE indicates successful operation |
| IOP Verdict |  |
| PRO Verdict |  |

#### 8.1.22.3 Schedule Update

| **Interoperability Test Description** |
| --- |
| **Identifier:** | TD\_M2M\_NH\_157 |
| **Objective:** | AE updates attribute in <schedule> resource via a schedule Update Request |
| **Configuration:** | M2M\_CFG\_01 |
| **References:** | oneM2M TS-0001 [1], clause 10.2.17.4oneM2M TS-0004 [2], clause 7.4.9.2.3 |
|  |
| **Pre-test conditions:** | * AE has created an Application Entity resource <AE> on Registrar CSE
* AE has created a schedule resource <schedule> as child resource of <AE> resource
 |
| **Test Sequence** |
| **Step** | **RP** | **Type** | **Description** |
| 1 |  | Stimulus | AE is requested to send a schedule Update Request to update an attribute of the resource. |
| 2 | Mca | PRO Check Primitive  | * op = 3 (Update)
* to = {CSEBaseName}/URI of <schedule> resource
* fr = AE-ID
* rqi = (token-string)
* pc = Serialized representation of updated <schedule> resource
 |
| 3 |  | IOP Check | Check if possible that the <schedule> resource is updated in Registrar CSE. |
| 4 | Mca | PRO Check Primitive | * rsc = 2004 (Updated)
* rqi = (token-string) same as received in request message
* pc = Serialized representation of <schedule> resource
 |
| 5 |  | IOP Check | AE indicates successful operation |
| IOP Verdict |  |
| PRO Verdict |  |

#### 8.1.22.4 Schedule Delete

| **Interoperability Test Description** |
| --- |
| **Identifier:** | TD\_M2M\_NH\_158 |
| **Objective:** | AE deletes Schedule resource via a Schedule Delete Request |
| **Configuration:** | M2M\_CFG\_01 |
| **References:** | oneM2M TS-0001 [1], clause 10.2.17.5oneM2M TS-0004 [2], clause 7.4.9.2.4 |
|  |
| **Pre-test conditions:** | * AE has created an Application Entity resource <AE> on Registrar CSE
* AE has created a schedule resource <schedule> as child of <AE> resource
 |
| **Test Sequence** |
| **Step** | **RP** | **Type** | **Description** |
| 1 |  | Stimulus | AE is requested to send a schedule Delete Request |
| 2 | Mca | PRO Check Primitive  | * op = 4 (Delete)
* to = {CSEBaseName}/URI of <schedule> resource
* fr = AE-ID
* rqi = (token-string)
* pc = empty
 |
| 3 |  | IOP Check | Check if possible that the <schedule> resource is deleted in Registrar CSE. |
| 4 | Mca | PRO Check Primitive | * rsc = 2002 (DELETED)
* rqi = (token-string) same as received in request message
* pc = empty
 |
| 5 |  | IOP Check | Check if possible that the <schedule> resource has been removed in Registrar CSE. |
| 6 |  | IOP Check | AE indicates successful operation. |
| IOP Verdict |  |
| PRO Verdict |  |

#### 8.1.22.5 Notification to AE with configured Schedule resource

| **Interoperability Test Description** |
| --- |
| **Identifier:** | TD\_M2M\_NH\_159 |
| **Objective:** | CSE sends a notification request to the AE when Schedule resource for is configured |
| **Configuration:** | M2M\_CFG\_10 |
| **References:** | oneM2M TS-0001 [1], clause 9.6.9, 10.2.12oneM2M TS-0004 [2], clause 7.4.1 |
|  |
| **Pre-test conditions:** | * AE1 has created an application resource <AE> on registrar CSE
* AE1 has created a container resource <container> on registrar CSE
* AE1 has created a <subscription> as a child resource of a <container>
* AE1 has created a <schedule> as a child resource of a <subscription>
* AE2 has created an application resource <AE> on registrar CSE
* AE2 has permissions to UPDATE the container created by AE1
 |
| **Test Sequence** |
| **Step** | **RP** | **Type** | **Description** |
| 1 |  | Stimulus | AE2 is requested to send a Update request to the <container> created by AE1. This triggers or causes the HOST CSE to send a notification to AE1 within the time window indicated in scheduleElement attribute of <schedule> resource |
| 2 | CheckMca | PRO Check Primitive  | * op = 5 (Notify)
* to = notificationURI of subscription resource
* from = Registrar CSE-ID
* rqi = (token-string)
* pc = Serialized representation of Notification data object
 |
| 3 |  | IOP Check | Check if the notification representation  |
| 4 | CheckMca | PRO Check Primitive | Sent response contains* rsc = 2000 (OK)
* rqi = (token-string) same as received in request message
 |
| 5 |  | IOP Check | AE1 indicates notification received |
| IOP Verdict |  |
| PRO Verdict |  |

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