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| INPUT CONTRIBUTION | |
| Group Name:\* | TDE $47 |
| 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 of  document:\* | Decision  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 10.2.17.2  oneM2M 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 10.2.17.3  oneM2M 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 10.2.17.4  oneM2M 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 10.2.17.5  oneM2M 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, 10.2.12  oneM2M 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. |
| 2 | Check  Mca | PRO Check Primitive | * op = 3 (Update) * to = {CSEBaseName}/URI of <container> resource * fr = AE-ID * rqi = (token-string) * pc = Serialized representation of updated <container> resource |
| 3 |  | IOP Check | The HOST CSE prepares a notification to AE1 and sends it within the time window indicated in scheduleElement attribute of <schedule> resource |
| 4 | Check  Mca | 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 |
| 5 | Check  Mca | PRO Check Primitive | Sent response contains   * rsc = 2000 (OK) * rqi = (token-string) same as received in request message |
| 6 |  | IOP Check | Check that AE1 has received the notification within the time window indicated in scheduleElement attribute of <schedule> resource |
| IOP Verdict | |  | |
| PRO Verdict | |  | |

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