

20230912

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TINYIOT

# 이번 주 진행 상황

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1. 속도측정 마무리
2. Announcement 공부

# 시간측정 마무리

TinyIoT - Raspi							TinyIoT - Raspi							
CIN create							Discovery 리소스 개수 필터 : ty = 4, lim=20							
회차	1 x 120	2 x 60	4 x 30	6 x 20	8 x 15	10 x 12	회차	CNT 5 x CIN 300	CNT 5 x CIN 40	CNT 5 x CIN 80	CNT 5 x CIN 120	CNT 5 x CIN 160	CNT 5 x CIN 180	CNT 5 x CIN 200
1	0.049889481	0.0866626281	0.168292952	0.2525808	0.340682667	0.408943568	1	0.166012708	0.044793351	0.061901522	0.088765979	0.11181372	0.099196251	0.127027686
2	0.050266953	0.08523071	0.168828793	0.258926811	0.332166958	0.408578098	2	0.157780329	0.047154713	0.069126995	0.098859986	0.100941634	0.105998	0.122063009
3	0.067122813	0.08546714	0.17119753	0.258096274	0.334912219	0.40884228	3	0.182340519	0.049239286	0.066552083	0.09433895	0.100912897	0.106811031	0.115086166
4	0.049798528	0.086708937	0.171104133	0.249718	0.340849473	0.409730383	4	0.164415654	0.051772722	0.069199347	0.10166719	0.125625881	0.106327097	0.115174596
5	0.050290847	0.085783251	0.176454175	0.254530289	0.330338987	0.408329521	5	0.180730629	0.045727086	0.081192875	0.096642319	0.100728432	0.103117863	0.117196401
평균	0.053473724	0.085963264	0.171175516	0.254770435	0.335790061	0.40888477	평균	0.170255968	0.047737432	0.069594564	0.096054885	0.108004513	0.104290048	0.119309572
Mobius - GCP (sangpaulo)							TinyIoT - Raspi							
CIN create							Discovery 리소스 개수 Raspi							
회차	1 x 120	2 x 60	4 x 30	6 x 20	8 x 15	10 x 12	회차/리소스	AE 2 x CNT 5 (CIN total 1000)	CIN	AE 2 x CNT 8 (CIN total 1500)	CIN	AE 2 x CNT 14 (CIN total 2000)	CIN	
1	0.614131961	0.621924669	0.604498323	0.603662125	0.60789155	0.615002364	1	0.023214022	0.020429897	0.211417325	0.022107959	0.01830972	0.22374142	
2	0.671111764	0.604657068	0.602924738	0.604055597	0.60737342	0.605588275	2	0.017176247	0.014150858	0.170383716	0.027413034	0.022088234	0.270075011	
3	0.601085798	0.603016682	0.603419159	0.607944294	0.606341841	0.612753473	3	0.025077144	0.023329385	0.18361787	0.018929211	0.0179715	0.231398034	
4	0.608832198	0.605215313	0.604901594	0.602561992	0.60672694	0.605375191	4	0.016881633	0.013609004	0.176421587	0.026758567	0.021735787	0.241958412	
5	0.60221597	0.603051241	0.603279996	0.60536024	0.608676779	0.604502265	5	0.017838566	0.015910959	0.243971539	0.01992228	0.019906106	0.242374961	
평균	0.619476713	0.607572995	0.603804762	0.60471685	0.607402106	0.608644313	평균	0.020037522	0.017486021	0.197162407	0.02302621	0.020002269	0.241909568	
Mobius - GCP (Iowa)							Mobius - GCP (Iowa)							
CIN create							Discovery 리소스 개수 GCP - Iowa							
회차	1 x 120	2 x 60	4 x 30	6 x 20	8 x 15	10 x 12	회차/리소스	S AE	CNT	CIN				
1	0.390194416	0.385890134	0.383732927	0.385542106	0.386401073	0.387185587	1	0.563565032	0.690774266	0.580215883				
2	0.38465695	0.382805395	0.383408286	0.386640517	0.386662396	0.384600679	2	0.555091317	0.681888715	0.571136785				
3	0.38795493	0.38297526	0.382226417	0.386012703	0.386571465	0.3856969	3	0.556419873	0.680274741	0.570798826	0.3			
4	0.383034982	0.382120856	0.382839372	0.388975028	0.386364718	0.384322802	4	0.558926988	0.678269045	0.581548643	0.25			
5	0.383079123	0.38464605	0.382479254	0.386246669	0.388427709	0.394926357	5	0.557113393	0.708587631	0.579794391	0.2			
평균	0.38578408	0.383687539	0.382937251	0.386683405	0.386885472	0.387346465	평균	0.55822321	0.687958879	0.576698906				

# Announcement

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TS 0001, 9.6.1.3.2-1

<i>announceTo</i>	<p>This attribute may be included in a CREATE or UPDATE Request in which case it contains a list of addresses/CSE-IDs where the resource is to be announced. For the case that CSE-IDs are provided, the announced-to CSE shall decide the location of the announced resources based on the rules described in clause 9.6.26.</p> <p>For the original resource, this attribute shall only be present if it has been successfully announced to other CSEs. This attribute maintains the list of the resource addresses to the successfully announced resources. Updates on this attribute will trigger new resource announcement or de-announcement.</p> <p>If the <i>announceTo</i> attribute includes resource address(s), the present document does not provide any means for validating these address(s) for announcement purposes. It is the responsibility of the Hosting-CSE referenced by the resource address(s) to validate the access privileges of the originator of the Request that triggers the announcement.</p>
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# Announcement

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## TS0004 6.5.4      6.5.4      announceableResource

### 6.5.4.1      Description

This type definition includes the universal and common attributes used by oneM2M resource types that are capable of being announced. In addition to the attributes of a regularResource, it includes (as optional) the common attributes that are used by the announcement mechanism.

### 6.5.4.2      Reference

See [Table 6.3.6-2](#)

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### 6.5.4.3      Usage

This type is used by the following resource types:

<AE>, <container>, <group>, <locationPolicy>, <node>, <remoteCSE>, <semanticDescriptor>, <timeSeries>, <ontologyRepository>, <ontology>, <ontologyMapping>, <ontologyMappingAlgorithm>, <ontologyMappingAlgorithmRepository>, <semanticMashupJobProfile>, <semanticMashupInstance>, <semanticMashupResult>, <multimediaSession>, <schedule>, <semanticRuleRepository>, <reasoningRules>, <reasoningJobInstance>, <timeSyncBeacon>, <primitiveProfile>, <processManagement>, <state>, <action>, <dependency>, <softwareCampaign>.

It is also used by the specializations of <mgmtObj> and of <flexContainer>.

# Announcement

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## TS 0004, 7.3.3.10

If a CREATE Request that contains an *announceTo* attribute is received, or if an UPDATE Request is received that adds a URI or CSE-ID to the *announceTo* attribute that is not already stored in the *announceTo* attribute of the resource:

- 1) Compose a CREATE Request primitive as follows:
  - The *link* attribute is set to the URI of the original resource.
  - If the *accessControlPolicyIDs* attribute of the original resource is not present, the *accessControlPolicyIDs* attribute is set to the same value as the parent resource or is set using the local policy of the original resource.
  - Attributes marked with MA in oneM2M TS-0001 [6]. Such attributes shall be included if present in the original resource and set to same value as in the original resource.
  - Attributes marked with OA that are included in the *announcedAttribute* attribute. Such attributes shall be included if present in the original resource and set to same value as in the original resource.
  - The *resourceType* attribute is set to the announced variant of the original resource (see [Table 6.3.4.2.1-1](#)).

# Announcement

TS0001, 10.2.13.1

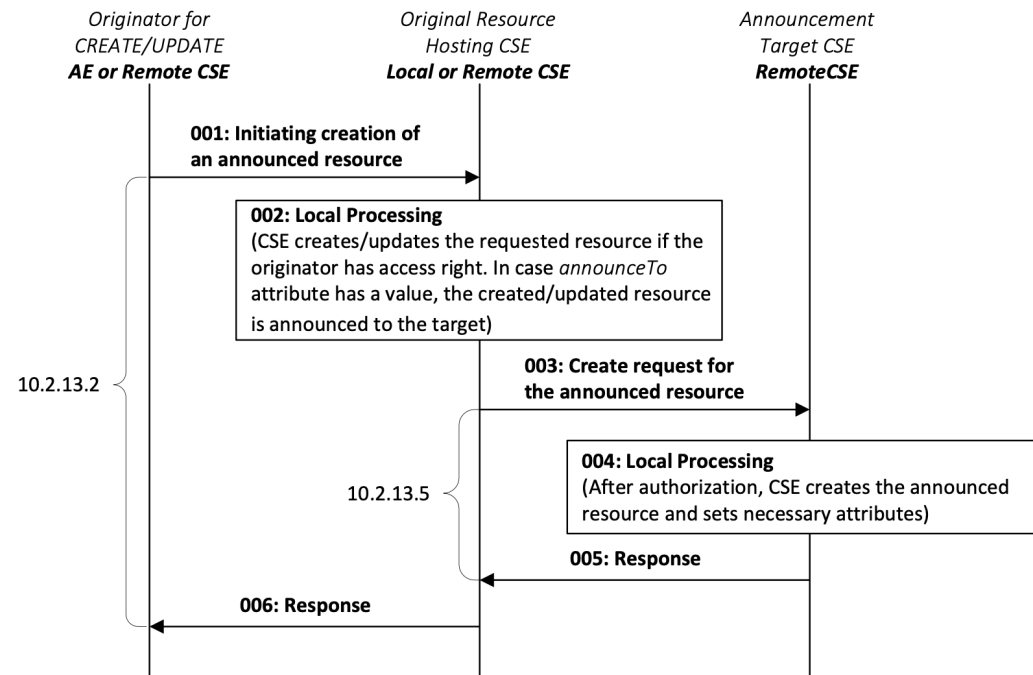


Figure 10.2.13.2-1: Announced resource CREATE procedures

# Announcement

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TS0004

7.4.26.1

```
<xs:element name="AEAnnc" substitutionGroup="m2m:sg_announcedResource">
  <xs:complexType>
    <xs:complexContent>
      <!-- Inherit common attributes for announced Resources -->
      <xs:extension base="m2m:announcedResource">
        <xs:sequence>
          <!-- Resource Specific Attributes -->
          <xs:element name="location" type="m2m:geoCoordinates" minOccurs="0" />
          <xs:element name="appName" type="xs:string" minOccurs="0" />
          <xs:element name="App-ID" type="xs:string" minOccurs="0" />
          <xs:element name="AE-ID" type="m2m:ID" minOccurs="0" />
          <xs:element name="pointOfAccess" type="m2m:poaList" minOccurs="0" />
          <xs:element name="ontologyRef" type="xs:anyURI" minOccurs="0" />
          <xs:element name="nodeLink" type="xs:anyURI" minOccurs="0" />
          <xs:element name="requestReachability" type="xs:boolean" minOccurs="0" />
          <xs:element name="contentSerialization" type="m2m:serializations" minOccurs="0" />
          <xs:element name="e2eSecInfo" type="m2m:e2eSecInfo" minOccurs="0" />
          <xs:element name="supportedReleaseVersions" type="m2m:supportedReleaseVersions" />
          <xs:element name="registrationStatus" type="m2m:AERegistrationStatus" minOccurs="0" />
          <xs:element name="trackRegistrationPoints" type="xs:boolean" minOccurs="0" />
          <xs:element name="sessionCapabilities" type="m2m:sessionCapabilities" minOccurs="0" />
          <xs:element name="triggerEnable" type="xs:boolean" minOccurs="0" />
          <xs:element name="activityPatternElements" type="m2m:activityPatternElements" minOccurs="0" />
          <xs:element name="externalGroupID" type="m2m:externalID" minOccurs="0" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
```