

20230815

TINYIOT

이번 주 진행 상황

1. cJSON으로 이전 - 성능평가
2. spec2md manual 변환
3. testRemote 진행
4. discovery ops attribute 지원 추가
5. Group Resource macp attribute 추가

cJSON으로 전환

- 기존버전에서 통과하는 84개의 Test진행. 각각 4회 씩 진행해서 평균을 산출

[ACME] - Test Results

Test Suite	Count	Skipped	Errors	Times Exec Sleep Proc			Exec Time per Test Request		Proc Time per Test Request		Requests
testACP	23	0	0	2.9688	0.00	0.0466	0.1291	0.1024	0.0020	0.0016	29
testAE	20	0	0	2.8916	0.00	0.0450	0.1446	0.1033	0.0022	0.0016	28
testCIN	2	0	0	0.5735	0.00	0.0086	0.2867	0.1147	0.0043	0.0017	5
testCNT	21	0	0	2.7243	0.00	0.0438	0.1297	0.1048	0.0021	0.0017	26
testCNT_CIN	0	0	0	0.0000	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0
testGRP	18	0	0	3.6797	0.00	0.0563	0.2044	0.1082	0.0031	0.0017	34
Totals	84	0	0	12.8434	0.00	0.2058	0.1529	0.1053	0.0025	0.0017	122

cJSON으로 전환

- 기존방식이 새 방식보다 5.2%가량 빠르게 측정됨.
- 검증이 소량 추가되었다는 것을 감안하면 속도저하 심각하지 않음.

```
newLogTotalAvg : 0.0006681268292682927
prevLogTotalAvg : 0.0006335691056910568
diff : 3.4557723577235944e-05
diff% : 94.82767012737952
```

Spec2md전환

새 버전에서 오히려 기존에 없던 버그가 생김.

- Table 내부
이 사라짐.

미비한점

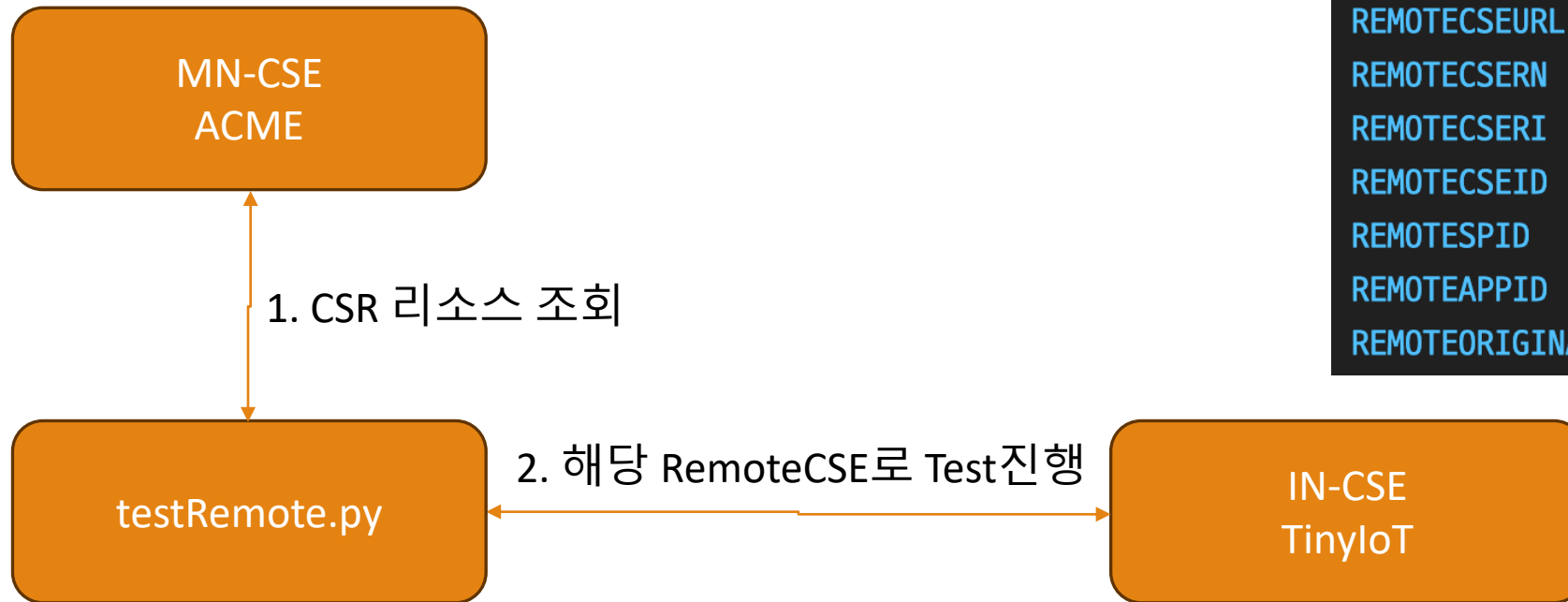
- Bold나 Italic이 단어 단위로 적용되어 있음

- Ex) **Mapped Test Cases.** -> ****Mapped****Test****Cases****

변환

https://gitlab.com/L4MXkE/mdtest/-/blob/main/TS-0025-Product_profiles-V3_1_0/TS-0025-Product_profiles-V3_1_0.md

testRemote.py



```
REMOTECSURL      = f'{{REMOTEPROTOCOL}}'
REMOTECSERN      = 'cse-mn'
REMOTECSERI      = 'id-mn'
REMOTECEID       = '/id-mn'
REMOTESPID       = 'sp-mn'
REMOTEAPPID      = 'NMNApp1Id'
REMOTEORIGINATOR = 'CAdmin'
```

testRemote.py

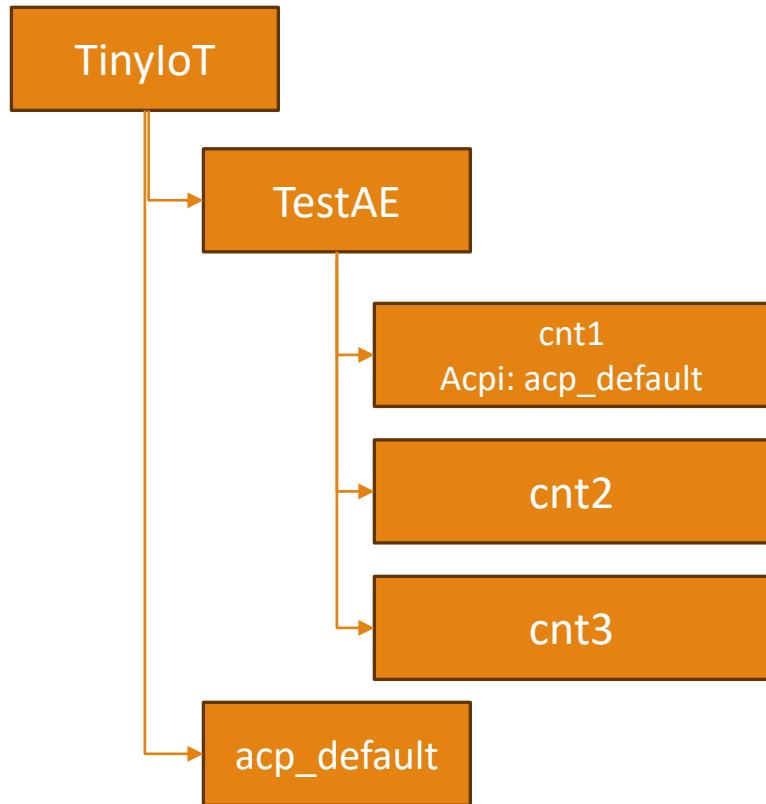
```
(acme) x ~/Desktop/Dev/ACME-oneM2M-CSE/tests master python3
/Users/gimjuseong/Library/Python/3.9/lib/python/site-packages/urllib3/__i
2.8.3'. See: https://github.com/urllib3/urllib3/issues/3020
    warnings.warn(
test_retrieveLocalCSR (__main__.TestRemote)
Retrieve the local registree CSR ... ok
test_retrieveRemoteCSR (__main__.TestRemote)
Retrieve own remote CSE ... ok
test_createCSRmissingCSI (__main__.TestRemote)
Create a local <CSR> with missing CSI ... ok
test_createCSRmissingCB (__main__.TestRemote)
Create a local <CSR> with missing cb ... ok
test_createCSRwrongCSI (__main__.TestRemote)
Create a local <CSR> with wrong CSI ... ok
test_createCSRnoCsi (__main__.TestRemote)
Create a local <CSR> without csi, but allowed originator ... ok
test_createCSRsameAsAE (__main__.TestRemote)
Create a local <CSR> with the same originator as an <AE> -> Fail ... ok

-----
Ran 7 tests in 1.324s
```

Ops attribute

해당 리소스에 Originator이 작업을 할 권한이 있는지 Filter하는 attribute

Ops attribute



```
"m2m:acp": {  
  "rn": "acp_default",  
  "pv": {  
    "cr": [  
      {  
        "acor": [  
          "COrigin"  
        ],  
        "acop": 63  
      },  
      {  
        "acor": [  
          "all"  
        ],  
        "acop": 8  
      }  
    ]  
  }  
}
```

Delete 권한

Ops attribute

GET `{{(mp_url)}}/{{(cb)}}?fo=1&fu=1&ty=[2,3,4]&ops=1`

Params Authorization Headers (11) Body Pre-request Script Tests S

Headers 6 hidden

Key	Value
<input checked="" type="checkbox"/> Accept	application/json
<input checked="" type="checkbox"/> X-M2M-RI	fds345435
<input checked="" type="checkbox"/> X-M2M-Origin	C-Origin
<input checked="" type="checkbox"/> X-M2M-RVI	3
<input type="checkbox"/>	
Key	Value

Body Cookies Headers (11) Test Results

Pretty Raw Preview Visualize JSON

```
1  [
2    "TinyIoT/TestAE",
3    "TinyIoT/TestAE/cnt1",
4    "TinyIoT/TestAE/cnt2",
5    "TinyIoT/TestAE/cnt3",
6    "TinyIoT/TestAE/cnt1/4-20230811T1233250006540004",
7    "TinyIoT/TestAE/cnt1/4-20230811T1233280009430005",
8    "TinyIoT/TestAE/cnt1/4-20230811T1233310003400006"
9  ]
10
11
```

GET `{{(mp_url)}}/{{(cb)}}?fo=1&fu=1&ty=[2,3,4]&ops=1`

Params Authorization Headers (11) Body Pre-request Script Tests S

Headers 6 hidden

Key	Value
<input checked="" type="checkbox"/> Accept	application/json
<input checked="" type="checkbox"/> X-M2M-RI	fds345435
<input checked="" type="checkbox"/> X-M2M-Origin	C-Origin2
<input checked="" type="checkbox"/> X-M2M-RVI	3
<input type="checkbox"/>	
Key	Value

Body Cookies Headers (11) Test Results

Pretty Raw Preview Visualize JSON

```
1  [
2    "TinyIoT/TestAE",
3    "TinyIoT/TestAE/cnt2",
4    "TinyIoT/TestAE/cnt3",
5    "TinyIoT/TestAE/cnt1/4-20230811T1233250006540004",
6    "TinyIoT/TestAE/cnt1/4-20230811T1233280009430005",
7    "TinyIoT/TestAE/cnt1/4-20230811T1233310003400006"
8  ]
9
10
```

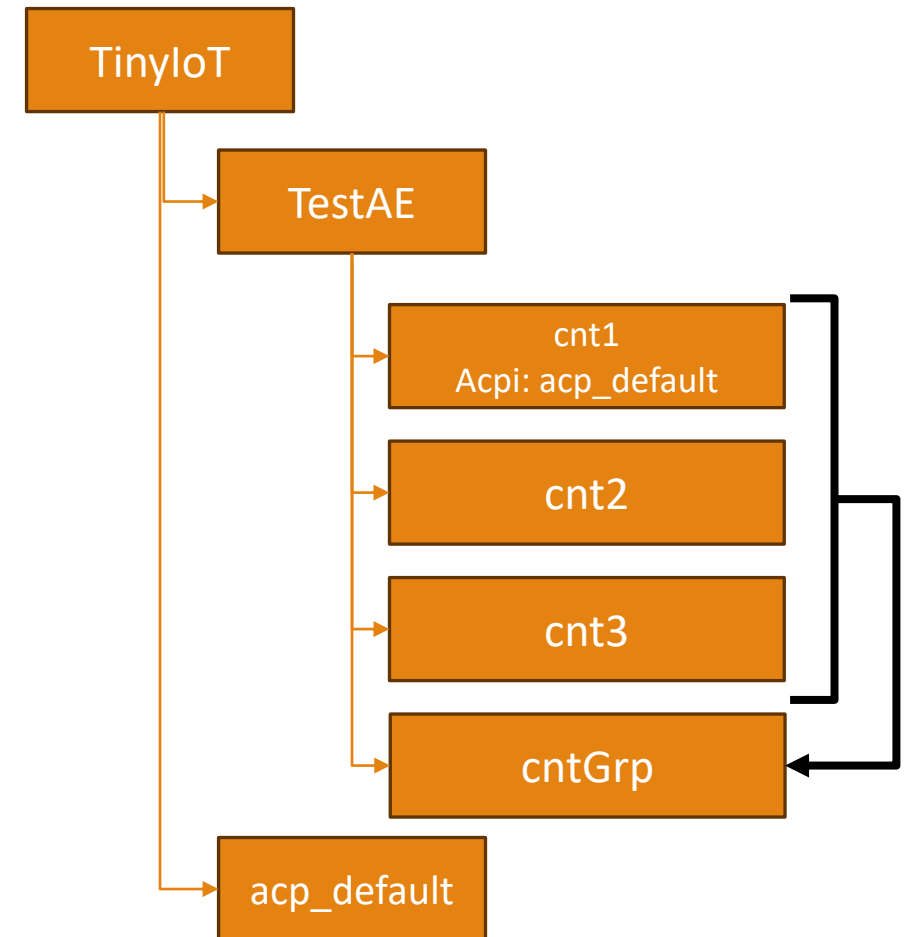
Macp attribute

Macp?

- MembersAccessControlPolicyIDs

FanOutPoint 리소스에 대한 권한 설정을 위한 Attribute

TP/oneM2M/CSE/GMG/001_CRE	No support plan	
TP/oneM2M/CSE/GMG/RET/001	To be tested	
TP/oneM2M/CSE/GMG/001_CRE	To be implemented	membersAccessControlPolicyIDs
TP/oneM2M/CSE/GMG/001_RET	To be implemented	
TP/oneM2M/CSE/GMG/001_UPD	To be implemented	
TP/oneM2M/CSE/GMG/001_DEL	To be implemented	
TP/oneM2M/CSE/GMG/002_CRE	To be implemented	membersAccessControlPolicyIDs
TP/oneM2M/CSE/GMG/002_RET	To be implemented	
TP/oneM2M/CSE/GMG/002_UPD	To be implemented	
TP/oneM2M/CSE/GMG/002_DEL	To be implemented	
TP/oneM2M/CSE/GMG/003_CRE	To be tested	



Macp attribute

```
▼ GET http://127.0.0.1:3000/TinyIoT/TestAE/cntGrp/fopt
  ▶ Network
  ▼ Request Headers
    Accept: "application/json"
    X-M2M-RI: "12345"
    X-M2M-Origin: "COrigin2"
    User-Agent: "PostmanRuntime/7.32.3"
    Postman-Token: "c93ef478-3c5a-44a3-8a79-5900806e17b2"
    Host: "127.0.0.1:3000"
    Accept-Encoding: "gzip, deflate, br"
    Connection: "keep-alive"
  ▶ Response Headers
  ▼ Response Body ↗
    {"m2m:dbg": "originator has no privilege"}
```

```
▼ GET http://127.0.0.1:3000/TinyIoT/TestAE/cntGrp/fopt
  ▶ Network
  ▼ Request Headers
    Accept: "application/json"
    X-M2M-RI: "12345"
    X-M2M-Origin: "COrigin"
    User-Agent: "PostmanRuntime/7.32.3"
    Postman-Token: "d1f14318-8aaa-4cff-9314-d6b61025bedb"
    Host: "127.0.0.1:3000"
    Accept-Encoding: "gzip, deflate, br"
    Connection: "keep-alive"
  ▶ Response Headers
  ▼ Response Body ↗
    {"m2m:agr":{"m2m:rsp":[{"rsc":2000,"rqi":"12345","to":"Tiny
    0230811T123306000084\\",\\"acpi\\":["TinyIoT/acp_default\\"],\\
    0811T1233100007220002\\",\\"pi\\":["COrigin\\",\\"ct\\":["2023081
    o":"TinyIoT/TestAE/cnt3","fr":"COrigin","pc":{"m2m:cnt\\":
    \\"],\\"ty\\":3,\\"mbs\\":16384,\\"st\\":0,\\"cni\\":0,\\"cbs\\":0}}]}}
```