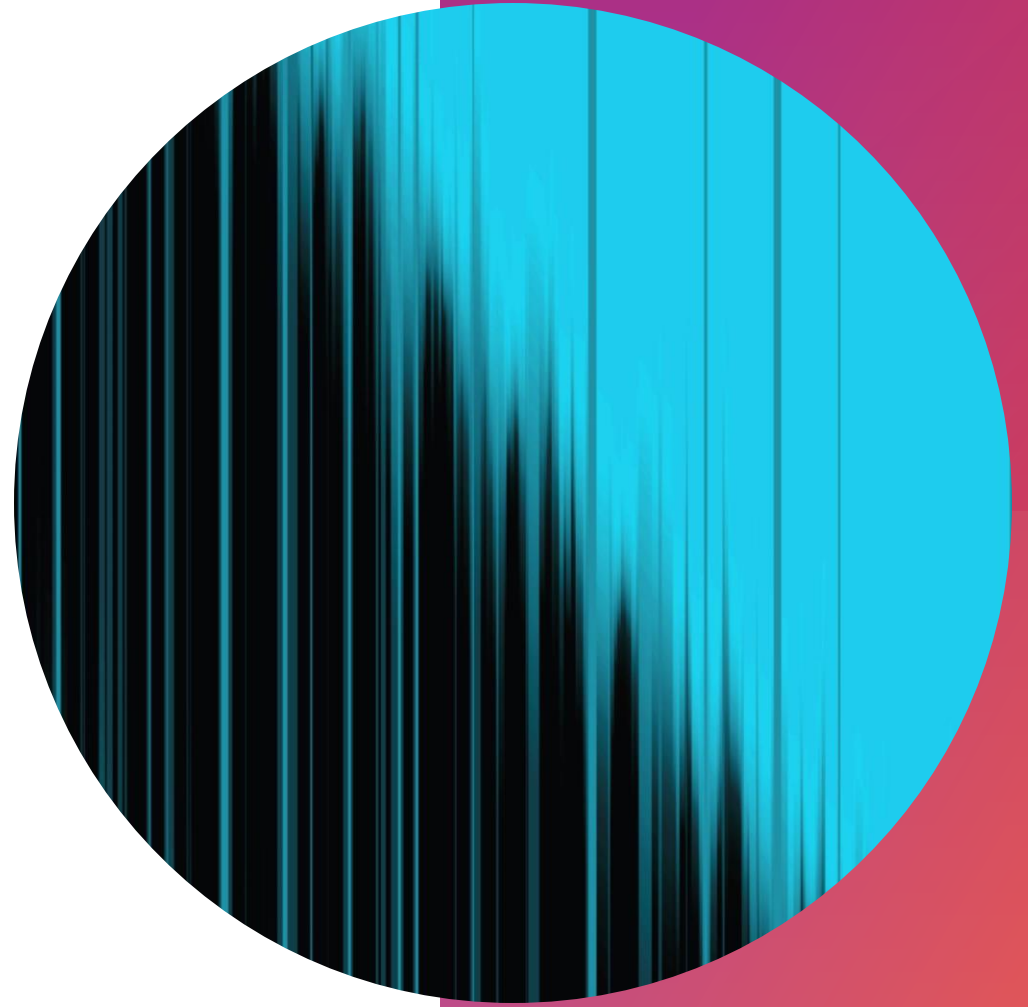


oneM2M

TinyIoT

ONEM2M TINYIOT SERVER

엄경호



# 이번 주 진행 상황

- I. Logger 적용
- II. ACME 테스트 기반 보완

# Logger 적용

```
Wed Feb 8 14:24:46 2023 DEBUG [DB]: Call db_get_cse
Wed Feb 8 14:24:46 2023 DEBUG [DB]: Call db_get_all_ae
Wed Feb 8 14:24:46 2023 DEBUG [DB]: AE does not exist
Wed Feb 8 14:24:46 2023 DEBUG [DB]: Call db_get_all_cnt
Wed Feb 8 14:24:46 2023 DEBUG [DB]: CNT does not exist
Wed Feb 8 14:24:46 2023 DEBUG [MAIN]: SUB.db does not exist
Wed Feb 8 14:24:46 2023 DEBUG [MAIN]: ACP.db does not exist
Wed Feb 8 14:24:46 2023 INFO [HTTP]: Server started http://127.0.0.1:3000

Wed Feb 8 14:24:46 2023 INFO [MQTT]: MQTT Init Success
NetConnect: Error -1 (Sock Err 0)
Wed Feb 8 14:24:46 2023 ERROR [MQTT]: MQTT Error -8: Error (Network)
Wed Feb 8 14:24:54 2023 DEBUG [HTTP]:

GET /TinyIoT HTTP/1.1
Host: localhost:3000
User-Agent: python-requests/2.28.1
Accept-Encoding: gzip, deflate
Accept: application/json
Connection: keep-alive
Content-Type: application/json
X-M2M-RI: 4620929830872196646
X-M2M-RVI: 4
X-M2M-Origin: CAdmin

Wed Feb 8 14:24:54 2023 DEBUG [HTTP]: + [GET] /TinyIoT
Wed Feb 8 14:24:54 2023 DEBUG [O2M]: Call parse_uri
Wed Feb 8 14:24:54 2023 INFO [MAIN]: Retrieve CSE
Wed Feb 8 14:24:54 2023 DEBUG [DB]: Call db_get_cse
Wed Feb 8 14:24:54 2023 DEBUG [HTTP]:
```

http, oneM2M operation 로그 들을 새로운 logger로 적용

## testCNT\_CIN.py

기존 상태에서는 해당 테스트 코드를 2개 테스트 제외하고 모두 동작하지 않았음

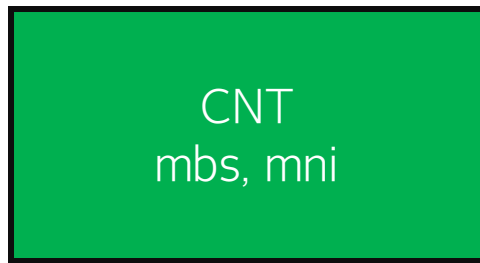
testCNT\_CIN.py 테스트 주 내용은 CNT의 mni, mbs, disr attribute에 대한 로직 수행임

이 중 CNT에 mni, mbs attribute를 추가함으로써 해당 테스트들을 통과하였음

# testCNT\_CIN.py

<i>currentNrOfInstances</i>	1	RO	Current number of direct child <i>&lt;contentInstance&gt;</i> resource in the <i>&lt;container&gt;</i> resource. It is limited by the <i>maxNrOfInstances</i> . The <i>currentNrOfInstances</i> attribute of the <i>&lt;container&gt;</i> resource shall be updated on successful creation or deletion of direct child <i>&lt;contentInstance&gt;</i> resource of <i>&lt;container&gt;</i> resource.	NA
<i>currentByteSize</i>	1	RO	Current size in bytes of data (i.e. <i>content</i> attribute of a <i>&lt;contentInstance&gt;</i> resource) stored in all direct child <i>&lt;contentInstance&gt;</i> resources of a <i>&lt;container&gt;</i> resource. This is the summation of <i>contentSize</i> attribute values of the <i>&lt;contentInstance&gt;</i> resources. It is limited by the <i>maxByteSize</i> . The <i>currentByteSize</i> attribute of the <i>&lt;container&gt;</i> resource shall be updated on successful creation or deletion of direct child <i>&lt;contentInstance&gt;</i> resource of <i>&lt;container&gt;</i> resource.	NA
<i>maxNrOfInstances</i>	0..1	RW	Maximum number of direct child <i>&lt;contentInstance&gt;</i> resources in the <i>&lt;container&gt;</i> resource.	OA
<i>maxByteSize</i>	0..1	RW	Maximum size in bytes of data (i.e. <i>content</i> attribute of a <i>&lt;contentInstance&gt;</i> resource) that is allocated for the <i>&lt;container&gt;</i> resource for all direct child <i>&lt;contentInstance&gt;</i> resources in the <i>&lt;container&gt;</i> resource.	OA

testCNT\_CIN.py

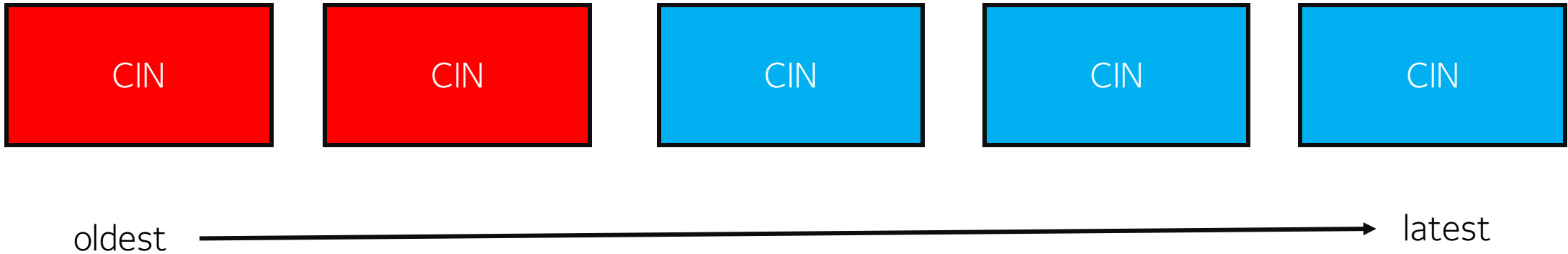


CIN 생성 및 삭제 시  
cni, cbs 변동으로 인한 mni, mbs 검증

CNT mbs, mni 업데이트 시  
cni, cbs 검증

## testCNT\_CIN.py

```
while(cbs > mbs || cni > mni)
```



oldest부터 순차적으로 삭제

## testCNT\_CIN.py

testCNT\_CIN.py에는 la, ol 에 대한 삭제 테스트도 포함하고 있기에 일단 CIN 삭제도 구현함

CIN에 대한 처리에서 까다로운 점

다른 리소스들과 다르게 리소스 트리에 존재하지 않고 리소스를 접근하기 위해서는 DB에 직접 접근해야 하기 때문에 다른 리소스 처리와 괴리감이 생김

testCIN.py도 존재하지만 rn을 설정이 전제된다는 점, Optional attribute에 대한 테스트가 대부분이기 때문에 테스트를 시도하지 않음



Chart

ACME TEST

