

# TinyloT Zeroconf

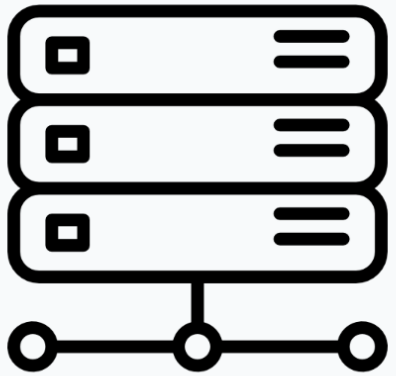
김동현



# 목차

- Zeroconf header File
- Zeroconf Procedure
- Create Procedure

# Zeroconf.h



TinyIoT Server



```
char* Use_Zeroconf()
```

fc : Zeroconf 일 때 호출되는 함수

내부적으로 avahi-browse -at 명령어를 사용하여 DeviceList를 생성하고 반환.

```
char* Use_Create_AE_CNT(char* Device,  
                        char* Device_Resource_Name,  
                        char* Device_CNT_Name)
```

fc : Create 일 때 호출되는 함수

App으로부터 받은 Device 정보들을 사용해서 AE, CNT를 생성하고 App에 등록 완료 응답을 보냄.

Device에 주기적인 CNT 생성 요청.

# Zeroconf Procedure

`Request(Get, Zeroconf)`

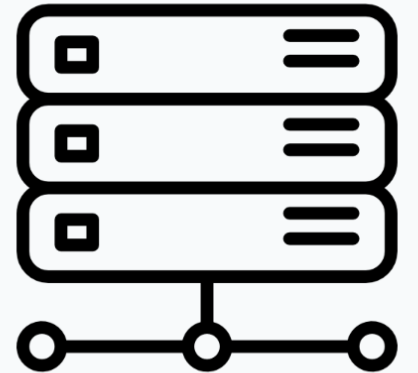
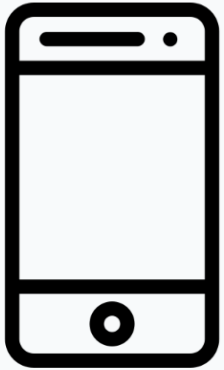
**Fc: Zeroconf Get 요청. (Retrieve)**

```
if(Retrieve):  
    if(fc==Zeroconf):  
        DeviceList = Use_Zeroconf()  
        Response(DeviceList)
```

**DeviceList Response**

```
print(DeviceList_UI)  
scanf(Device)  
scanf(Device_ResourceName)  
scanf(Device_CNT_Name)  
  
Request(Post, Create, Device,  
        Device_ResourceName,  
        Device_CNT_Name)
```

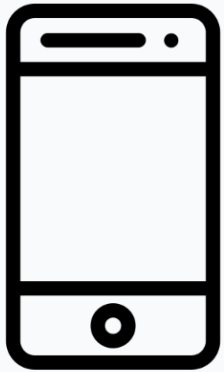
**Fc: Create Post 요청. (Create)**



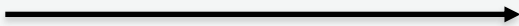
# Create Procedure

```
if(Create):  
    if(fc==Create):  
        Use_Create_AE_CNT() # 미구현  
        Response_to_App(등록_성공)  
  
        Request_to_Device(CIN, URL, Cipher)
```

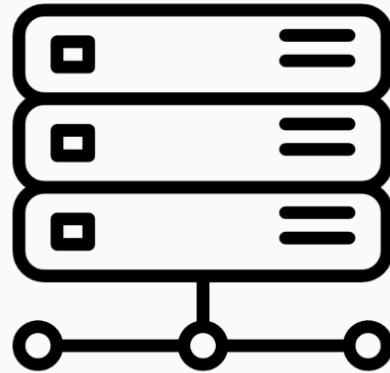
```
if(Post):  
    if(Check_Cipher()): # else Response(Error)  
        Response(Cipher_Test_Pass)  
        Zeroconf_BroadCast_Suspend  
    while(1):  
        Request_to_Server(Post, CIN_Create)  
        sleep(10)
```



Fc: Create Post 요청 (Create)



등록 성공 Response.



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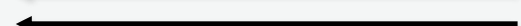
Post CIN 생성 요청



Response



CIN Create 요청



Device