ADXL362-ATWINC1500-ExoSense

User Guide For-RA-MCU Ver 1.03

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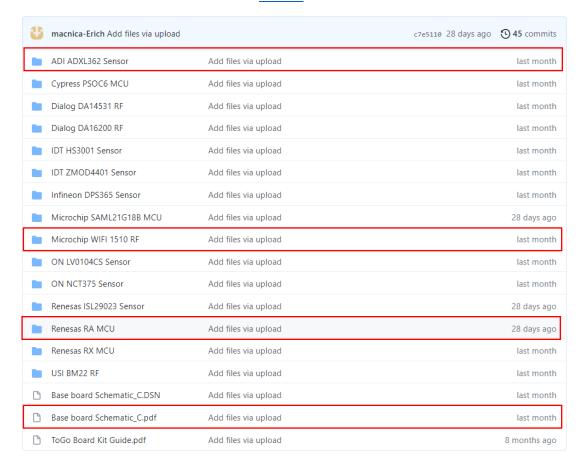
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Requirement

 IDE: e2 Studio v2021-01 FSP v2.3.0 or above https://github.com/renesas/fsp/releases



- Debug Tool (SEGGER J-link v9 or above)
 https://www.segger.com/products/debug-probes/j-link/models/j-link-edu-mini/
- Download ADXL362-ATWINC1500-Exosense--For-RA-MCU Project From <u>Github</u>.
- Download Schematic You Need From Github.

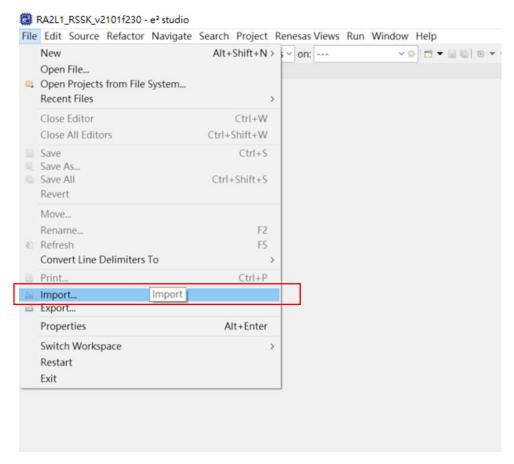


Device ID & Token

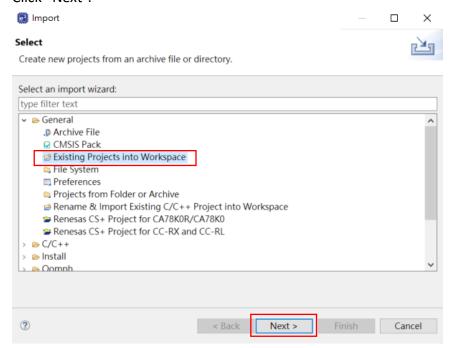
Device ID	ID Credentials(Token)	
TOGO_06	3b2b065b7	0f2bbc0

Import Project

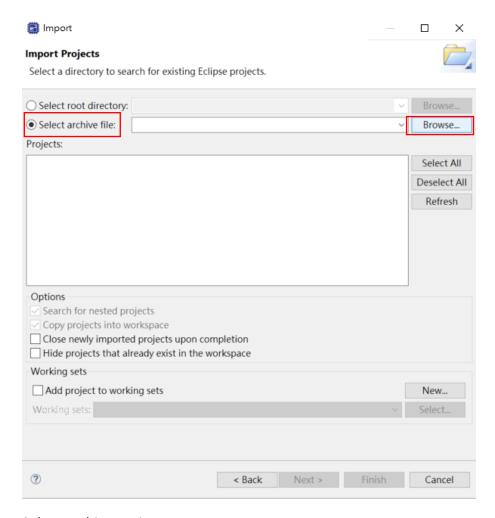
1. File -> Import



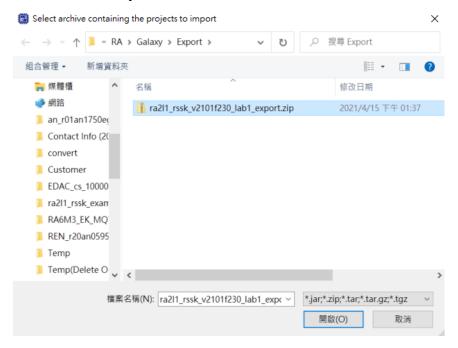
- 2. Choose "Existing Projects into Workspace".
- 3. Click "Next".



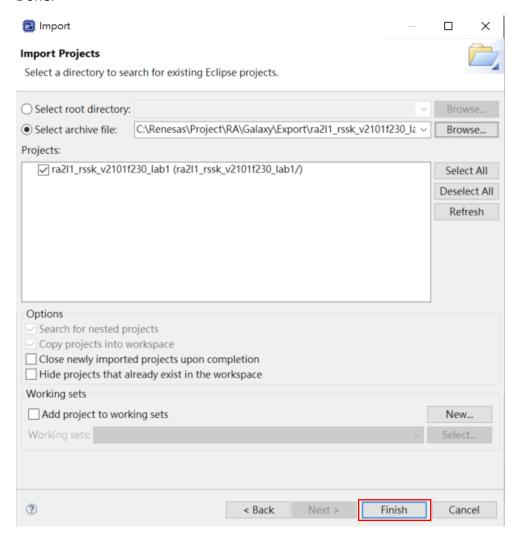
- 4. Choose "Select archive file".
- 5. Click "Browse".



6. Select Archive Project.



- 7. Click "Finish".
- 8. Done.



Modify Project

- 1. Modify DEVICE_TOKEN & DEVICE_ID in winc1500_exosite_exosense.c
- Modify WLAN_SSID & WLAN_PSK in winc1500_exosite_exosense.c

```
@ winc1500_exosite_exosense.c ⋈
46 #include "errno_local.h"
47 #include "http_client.h"
48 #include "json.h"
                                                                                                  "https://m21d2g4j50cu80000.m2.exosite.io/provision/activate"
                        #define EXOSITE PROVISION URL
                                                                                                  "https://m2ld2g4j50cu80000.m2.exosite.io/onep.v1/stack/alias"
"https://m2ld2g4j50cu80000.m2.exosite.io/timestamp"
"X-Exosite-CIK:%s\r\n"
                        #define EXOSITE_POST_URL
#define EXOSITE_GET_URL
                        #define EXOSITE_EXAMPLE_HTTP_CIK_EXT_HEADER
#define EXOSITE_EXAMPLE_HTTP_CONTENT_TYPE
   53
54
55
56
57
58
59
                                                                                                 "application/x-www-form-urlencoded; charset=utf-8"
                                                                 M2M_WIFI_SEC_WPA_PSK // AP Security
                        #define WLAN_AUTH
                     =// User need to modify 1.device token 2.device id 3.ssid 4.password //#define DEVICE_TOKEN "MACNICA_TOKEN" //#define DEVICE_ID "id=MACNICA_ID"
                        //#define WLAN SSID
                                                                     "MACNICA SSID'
                        //#define WLAN PSK
                                                                     "MACNICA PSW"
                        #define DEVICE_TOKEN
                                                                  "3b2b065b
                                                                                                               3f220f2bbc0"
                                                                 "id=T0G0_00
   64
                        #define DEVICE_ID
   65
66
                        #define WLAN_SSID
#define WLAN_PSK
```

3. AXIS_X_float, AXIS_Y_float, AXIS_Z_float & ADXL362_Alert will be uploaded to Exosense via WiFi.

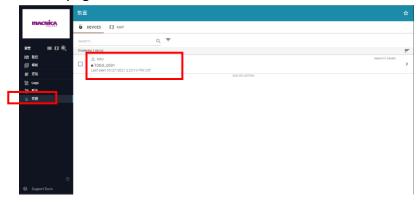
4. Compile & Download FW to MCU.

ExoSense Starter Guide

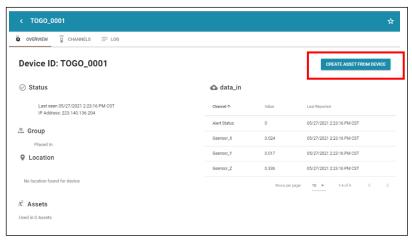
1. We will send an invitation email to you as below, please follow the instruction to register and log in.



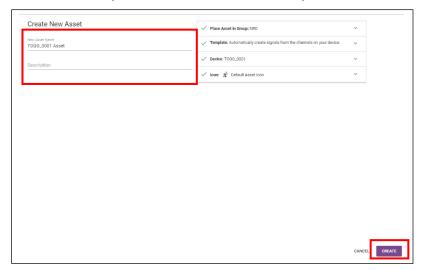
2. After login, you will enter the own page. You can see the TOGO_XXXX on the Device page and click it.



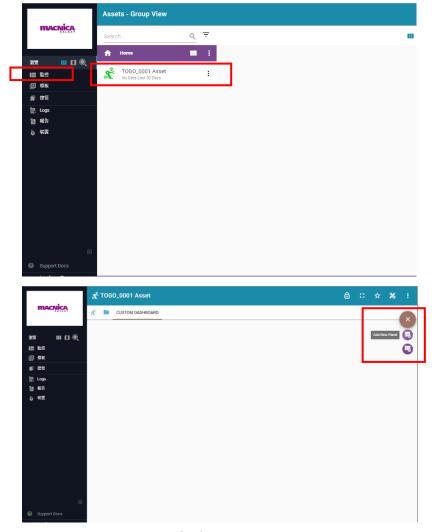
3. Click the button "CREATE ASSET FROM DEVICE" on the right top of the OVERVIEW page to create the digital twin asset.



4. You can modify the asset's name and description here before click CREATE.



5. Now you can create and edit DASHBOARD on your asset.

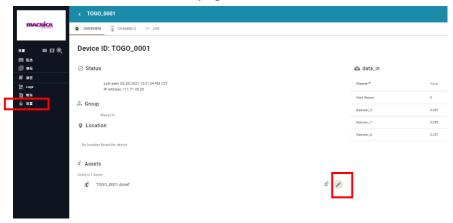


6. Now you can create and edit DASHBOARD on your asset.

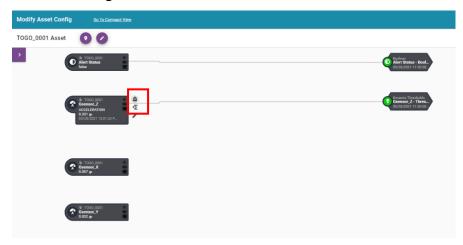
Document: https://docs.exosite.io/exosense/dashboards/dashboards-overview/

How to Add Rule

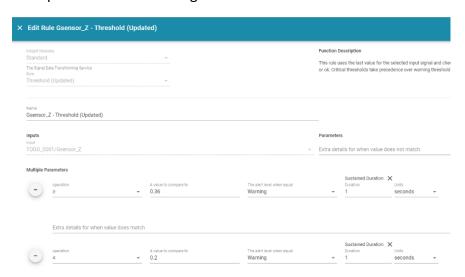
1. Go to Device OVERVIEW page, click the edit icon of Asset.



2. The options of Rule, Transform, and Edit signal pop up while the cursor move onto the signal item.

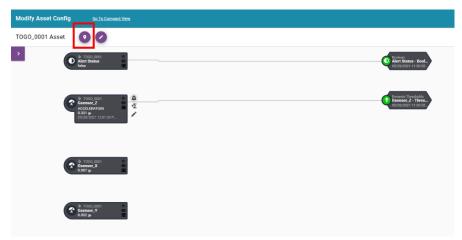


3. Example of threshold setting.

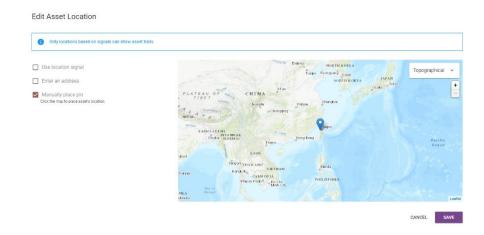


Set Asset Location

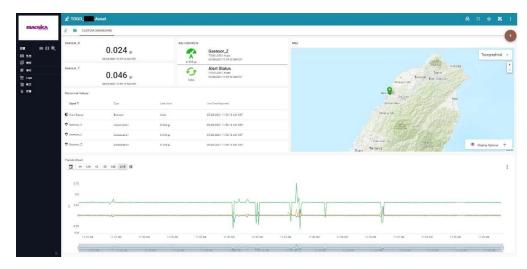
1. If you want to use the MAP to show the location of asset but the device does not provide the location data, here can set it manually.



2. Here have the 3 options to add location to the asset. The easy way is Manually place pin on the MAP.

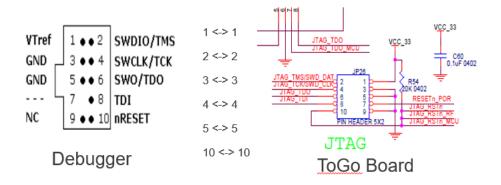


This example uses the MAP panel to display the asset location on DASHBOARD.



Appendix

Debugger Connection



• E2 Studio User Guide (Click on the picture).



History

Data	FAE	Version	Content
2021/05/26	Alvin	Ver1.01	Create document.
2021/05/28	Jay	Ver1.02	Add "How to Add Rule".
2021/05/28	Jay	Ver1.02	Add "Set Asset Location".
2021/06/01	Alvin	Ver1.03	Add "History".