

# How To: AppZone with Telit HE910 Evk2

## Description

The Telit AppZone is an Eclipse based Application Development Environment (ADE) that is integrated within the Telit module. The Telit Evaluation Kit (EVK2) provides an AppZone compatible environment to streamline application development based on Telit family modules. The kit includes a motherboard and an adapter board where the target module is connected.

This “How To” will provide the step-by-step details on how to use the Telit AppZone environment to publish the following data:

- Information Log Messages
- Location Data (Latitude, Longitude, etc.)
- Sample Attribute Information
- Simulated Property Data

This example will also demonstrate cloud methods to turn on/off the LEDs on the Telit EVK2.

## Software Prototyping Platform

The Telit AppZone ADE will be used throughout this example.

## Requirements

The following items are requirements for a working AppZone EVK2 IoT:

- Telit EVK2 with HE910 Module
- Windows Compatible PC with Internet Access

## Setup

Setup for the AppZone EVK2 IoT consist of these steps:

1. Signup for an M2M Account on the Management Portal
2. Download the getting started file from the Management Portal

### 3. Create a new “Thing” Definition on the Management Portal

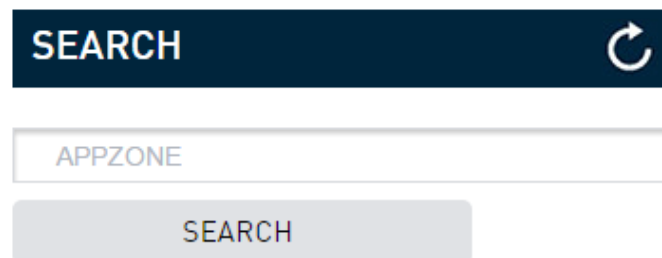
- a) Open the downloaded file and extract the ‘AppZoneThingDef.json’ file to your PC’s desktop
- b) Select ‘Developer’ from the Management Portal
- c) Click on ‘Thing definitions’ and then click the ‘Import’ button
- d) Click the ‘Attach File’ button and select the JSON file copied in the previous step
- e) Press the ‘Import’ to import the thing definition into the ORG

### 4. Create an Application token for your thing definition

- a) Select ‘Developer’ from the Management Portal
- b) Click on ‘Applications’ and then click the ‘New Application’ button
- c) In the ‘Name’ field enter ‘AppZoneEvk2App’
- d) In the ‘Description’ field enter ‘AppZone Evk2 App’
- e) In the ‘Auto Registration Thing Definition ID’ select ‘Evk IoT’
- f) Check the ‘Org Admin’ checkbox and press the ‘Add’ button
- g) Record the ‘Token’ ID that is provided for a subsequent step – this is your Application token

### 5. Download and install the AppZone Workbench

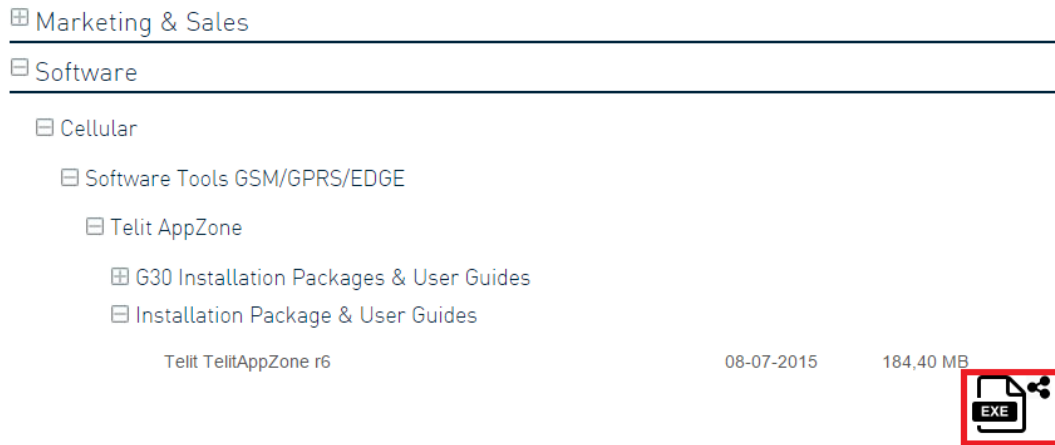
- a) Click on this [link](#).
- b) Login to the Download Zone or Register if you don’t have login credentials
- c) In the Search box enter “AppZone” and press the “Search” button



The image shows a search interface. At the top, there is a dark blue rectangular button with the word "SEARCH" in white capital letters and a white circular refresh icon on the right. Below this is a light gray search input box containing the text "APPZONE" in a light blue font. Underneath the input box is a light gray rectangular button with the word "SEARCH" in dark blue capital letters.

d) Expand the search result tree as shown below

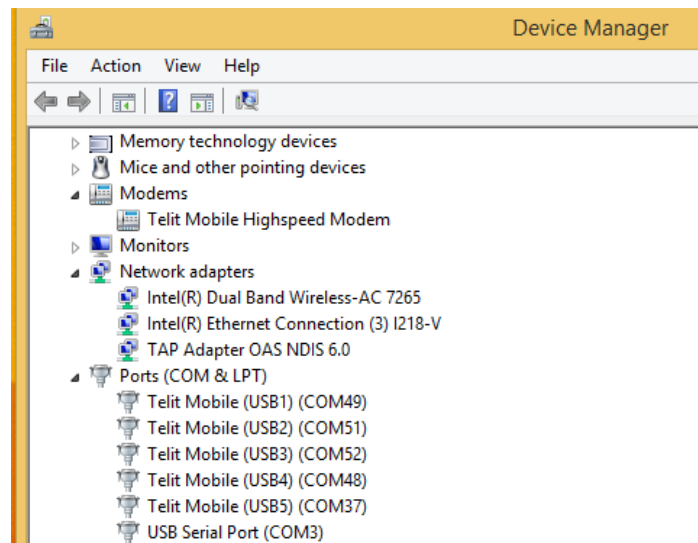
### Search result for "appzone" (14 files found)



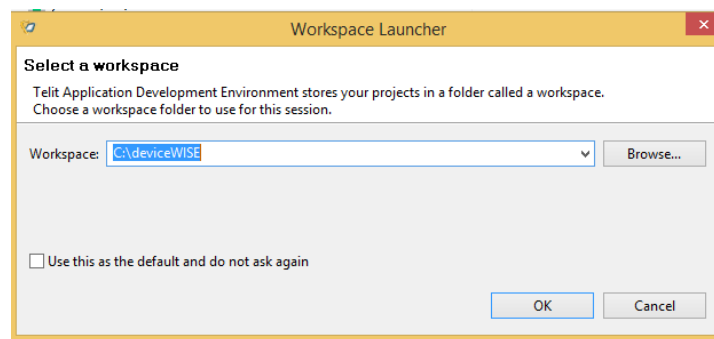
e) Click on the “EXE” icon to download the Telit AppZone Package

f) Execute the downloaded Telit AppZone installer program to install the environment

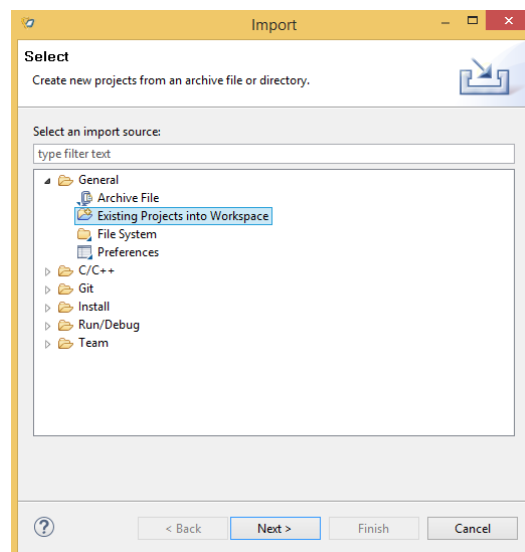
6. Connect your EVK2 to your PC's USB Port (Refer to the Telit EVK2 User Guide for details)
7. Power On your EVK2 (Refer to the Telit EVK2 User Guide for details)
8. Open the Windows “Device Manager” on your computer
9. Find the Telit Mobile Highspeed Modem and Telit Mobile (USB1-5) – If the ports are not listed, don't continue with the next steps and repeat steps 6 & 7



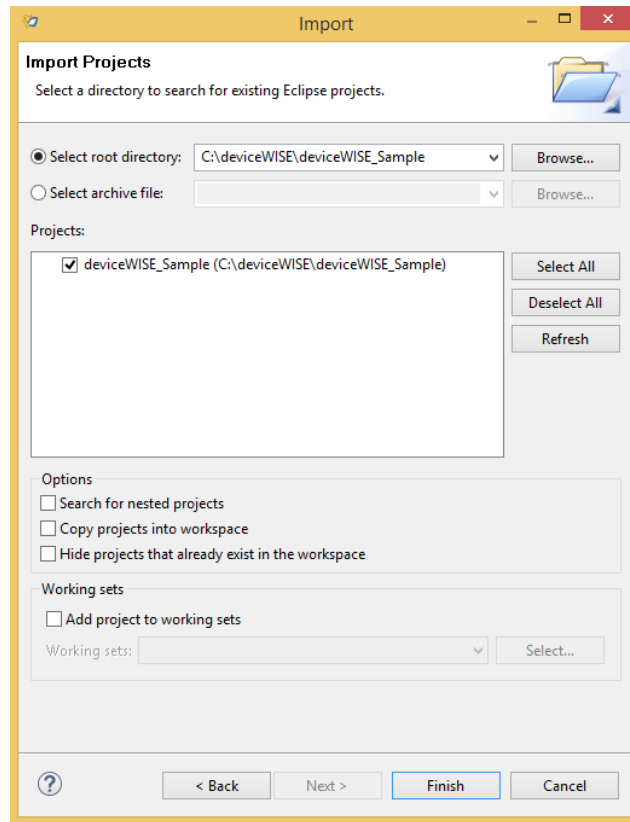
10. Install 'Putty' – the terminal emulator program to be used within this demo
  - a) Download 'Putty' from [here](#).
  - b) Create a shortcut for 'Putty' on your Desktop
  - c) Launch 'Putty' by double clicking on your 'Putty' shortcut
  - d) Specify your 'Putty' configuration accordingly (Specify the 'Telit Mobile Highspeed Modem' COM port from the previous step) and then press 'Open'
11. From within the file downloaded in step 2
  - a) Copy all the files into the C:\deviceWISE folder
12. Launch the Eclipse based AppZone ADE and enter C:\deviceWISE for the workspace and press the "OK" button



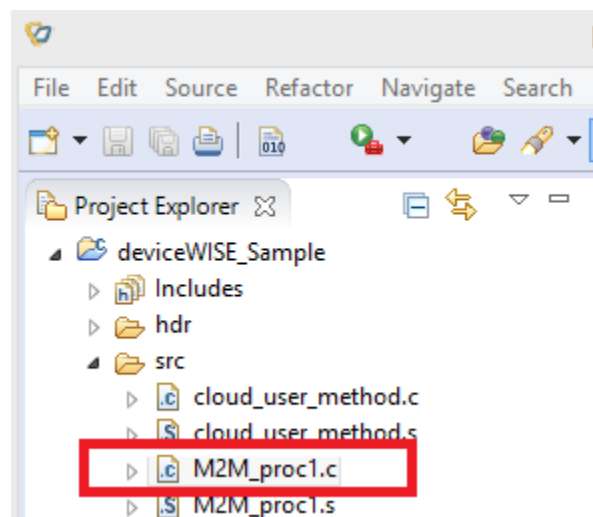
13. From the menubar, select File, Import, General, Existing Projects into Workspace, and then press the "Next" button.



14. Select the Import Projects as: “C:\deviceWISE\deviceWISE\_Sample” and press “Finish”



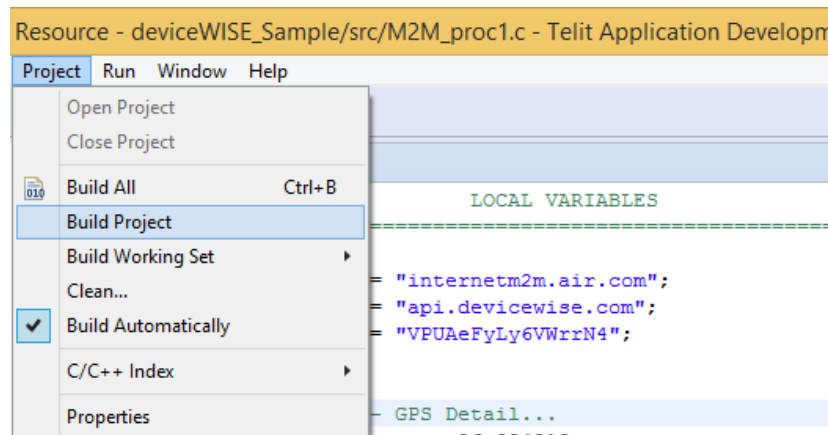
15. Open the “M2M\_proc1.c” file to update your specific details



- a) Update your network APN on line 51
- b) Update your App Token on line 53 (value obtained from step 4 above)

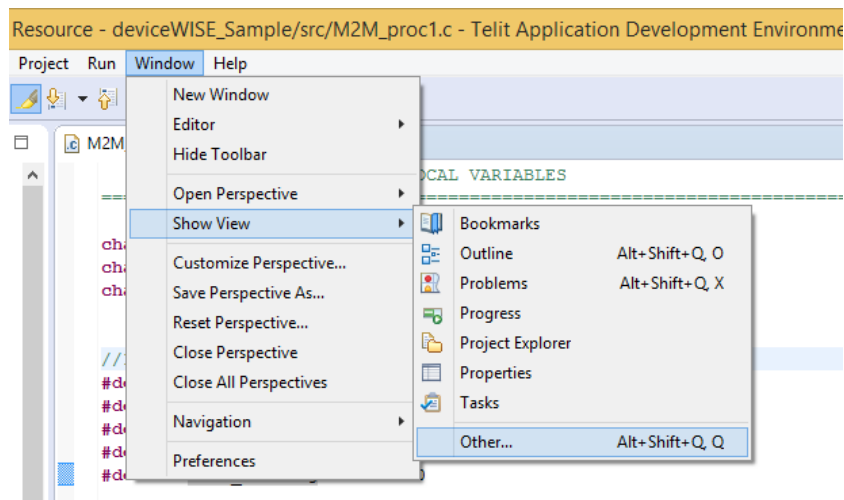
```
char APN[]           = "internetm2m.air.com";  
char serverURL[]     = "api.devicewise.com";  
char appToken[]      = "VPUAeFyLy6VWrrN4";
```

16. Build the sample project by selecting Project then “Build Project” from the menubar

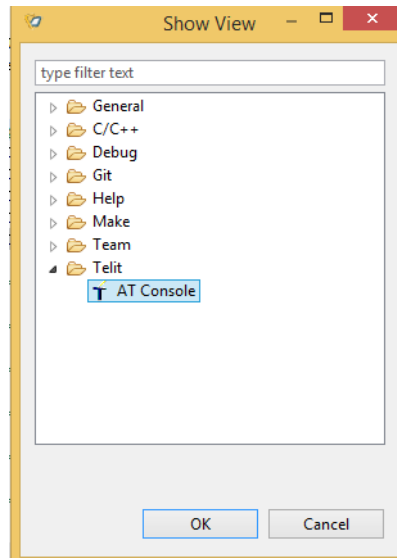


17. Open the Telit Console view

- a) Select Windows, Show View, and Other... from the menubar



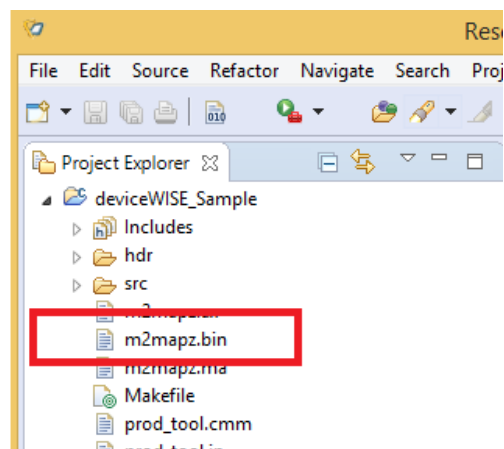
b) Select Telit, AT Console, then press the “OK” button



18. Auto Connect the AppZone ADE to your Telit EVK2 by pressing the magnifying glass icon

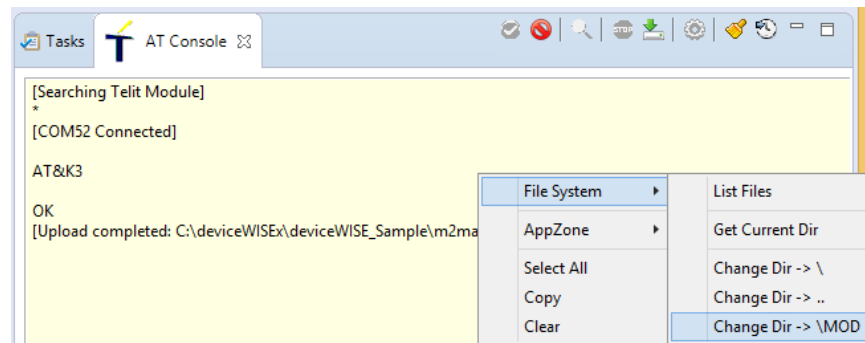


19. Copy the AppZone binary file to the EVK2 by dragging the “m2mapz.bin” file into the “AT Console” tab of the AppZone ADE.

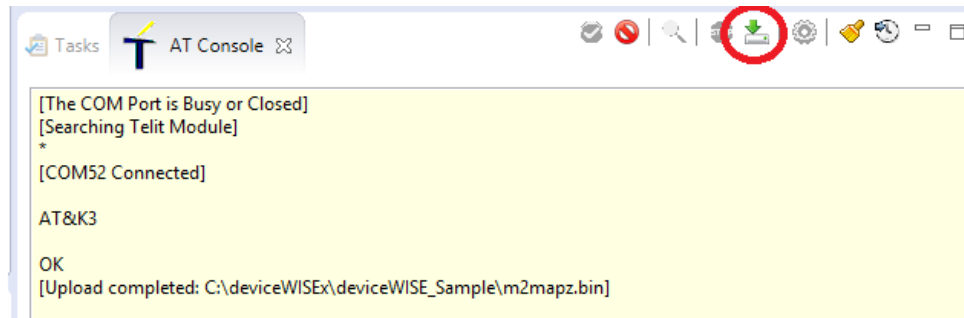


20. Configure the transferred binary as the AppZone module

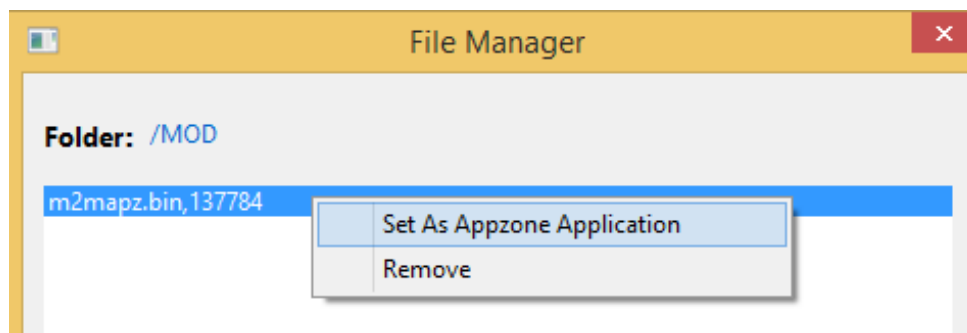
a) Right mouse click within the AT Console and select \MOD



b) Press the icon circled below to display the File Manager



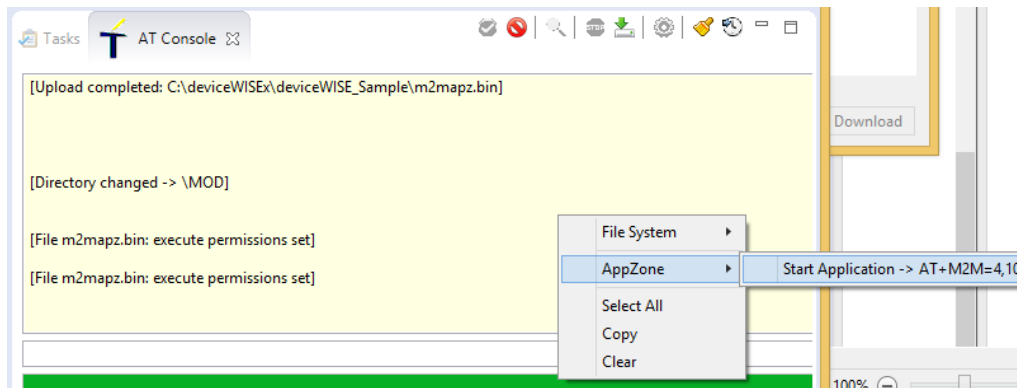
c) Right mouse click and select m2mapz.bin as the AppZone Application



d) Press the red X to close the File Manager pop-up window after the file attribute update



21. Launch the AppZone application by right mouse clicking on the AT Console and selecting “Start Application”



22. After several seconds, the AppZone program output will start printing to the Putty terminal emulator session.

23. Open the “Things” page on the Management Portal to display your device

24. Open your ‘Thing’ device by clicking the ‘view’ icon (the eyeball) next to your device. The properties data will display accordingly.

25. Use the ‘Methods’ tab to turn ON and OFF the LED on the EVK2