# Hands on Lab
HOL-3: The Telemetry Universal App

> *The Telemetry app is a modified version of the sample AzMS ToDo app. It runs on a desktop and Windows 8.1 phone. It uses a version1 table to which it can post telemetry data and retrieve it. It has a significant modification from the ToDo app in that only the most recent posting of a sensor's data is displayed.*

- Download and unzip the project from Codeplex: http://cejson.codeplex.com/downloads/get/1446014
- Open the project
- Examine the file TelemetryItem.cs in the third project
    - The fields in the table will be id, sensor, value and complete.
    - complete is used tag sensor entries as "stale"
    - POSTs to the service table sends a sensor name, a value and complete=false.
    - GET returns id, sensor name and value for which complete is false.
- Build the desktop and/or the phone version.
- Configure the project for your AzMS and Version 1 Table
    - Another change from the ToDo app is that this app's target is configurable.
        - Examine the code in App.xml.cs in the third project to see how this information is loaded.
    - Open the file config.xml and enter your (3rd third project):
        - Table name, that you created in HOL 3.2
        - AzMS URL
            - Get that from the service's Dashboard page on the right:
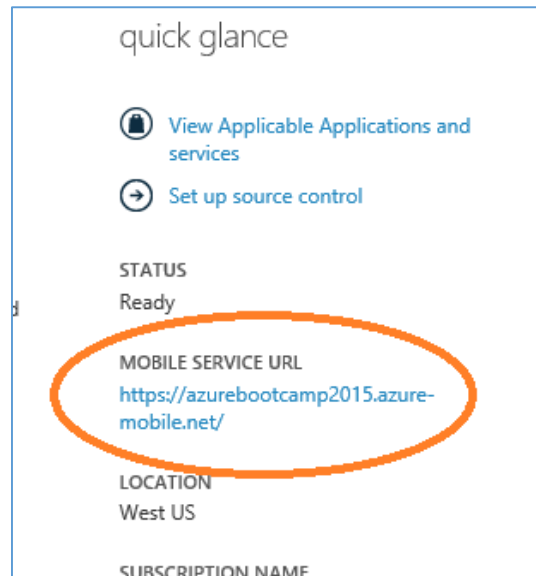
- App Key
  - Get that from the service's portal via "Manage Keys" at middle bottom:

- Build and deploy the project.
- Enter name name-value pairs and wait for a refresh (or action it).
- Enter some name-values using the same name but different value and observe that onlyteh later value is displayed for that sensor. Examine the Linq code in RefreshTelemetryItems() in MainPage.cs in the third project to see how this is done. It also tags "stale" sensor values as complete.