



Instructions for daily sync with the contest server

Purpose of the Contest Registration Application (daily sync with contest server)

Part of the qualification criteria to be eligible for the high-value contest prizes, is that your Starter Kit “pings” the Microsoft server at least once per day, for 15 to 30 consecutive days.

In order for this activity to be verified, it is required that you run a small Windows application once per day, while your Starter Kit is attached.

The first time that this application is run, some info needs to be entered into five “User” fields of the form (email, city, zip, country, device name). A valid email address is required for contest communications, but this will never be visible to other contest users (or shared outside of the contest administration).

When this application is run again (on the next day), these user fields will auto-populate with entries typed-in earlier, so this daily registration requires under 30 seconds of your day!

Three items are also reported from your Starter Kit hardware (Device ID, MAC Address and IP Address). None of these will be visible outside of the contest administration. (Reason for reporting the local IP address of your kit is to verify a Wi-Fi configuration has been completed and that it connects to an access point).

Procedure for Daily Sync with the Contest Server

- 1) Download and unzip the Contest Registration application (to a writeable region of your local hard-drive or other storage. This is a small Windows App for daily sync with contest server.
Download the ZIP file from the following URL: <http://avnet.me/azsphere-contest-app>
- 2) Launch the **sk_server_registration.exe** application. The Computer on which this application is run, must have a valid Azure Sphere SDK tool installation (ie. Verify beforehand that the computer can communicate with an attached Starter Kit using the SDK’s azsphere command-line interface).
Note also that this computer must be connected to the internet.

- 3) Connect your Azure Sphere MT3620 Starter Kit via the provided USB cable to this development computer and allow a couple of seconds for the board to finish booting its OS.

Note: If a Starter Kit is not attached, or Azure Sphere SDK tools (or USB drivers) are not correctly installed, then only the User info will be sent to the server, not the Starter Kit's Device info.

Azure Sphere Starter Kit Contest Registration (v1.0 beta)

DESIGNED BY AVNET

Azure Sphere Starter Kit
Sync with Contest Server

softweb solutions
An Avnet Company

Email Address: <email address>

City: <city>

ZIP Area Code: <zip>

Country: <country>

Device Name: <device name>

Device ID: Device not read!

Device MAC: Device not read!

Device IP: Device not read!

Read Device

Press to Refresh!

Press this button once per day...

Send to Server

- 4) Enter your **User info** (email, city, zip, country, device name). This only needs to be typed one time, the next time that the App is run, these fields will auto populate.
- 5) Press the **Read Device** button in the application user interface, to read **Device info** from your Starter Kit. A script command window will open briefly then close after capturing the device info. This step always requires that a Starter Kit is attached. If red text is seen in the console window, it is likely due to the script being executed too soon after power-up of the board. Simply press the Read Device button again to ensure that valid Device info gets captured.
- 6) Press the **Send to Server** button. This will post an encrypted version of the session information to the Contest Server. You may now close the application and disconnect the Starter Kit

The **SoftWeb IoTConnect** (Azure) based **contest server** provides a map view of daily registration activity wherever this takes place across the many global regions (updating 8 times a day). This is accessible at the following URL: <http://avnet.me/azsphere-kit-map>

This Avnet “Get Connected Challenge” map provides site visitors with versatile filtering options to determine the location of registered Starter Kits (down to ZIP code), and how each one is ranked according to contest criteria of connecting to the server once per day for 15 to 30 consecutive days.

See screenshot below...

Screenshot of Azure Sphere “Get Connected Challenge” map

The screenshot shows the 'Azure Sphere Get Connected Challenge' web application. It features a sidebar with filters (Country, City, Zip Code, Device Name, Days Registered), a main map of the United States with device location pins, a device count display, a bar chart of registered devices by date, and a leader board table.

Device Count (with applied filter)

4

Leader Board (contest daily registrations)

Count of Registered Devices By Date

Count of Registered Device

4

07/15/2019 Date

Leader Board (Based on Days Synced with Contest Server)

Device Name	Days Registered	Country
hacksterSphere	1	USA
SK001	1	United States
SK002	1	United States
TestDevice	1	USA

- A. Short URL to the “Get Connected Challenge” map: <http://avnet.me/azsphere-kit-map>
- B. Set of six filters for changing (and navigating) the mapped information
- C. Count of registered Starter Kits reported, based on the current filter settings
- D. Starter Kit location pins on the map (hovering the mouse pointer reports their info)
- E. Bar chart visualization of registered Starter Kit by date (subject to the filter settings)
- F. Leader Board listing of the latest contestant rankings (based on number of consecutive days that their Starter Kits were synced with the contest server)
- G. Links to key pages, accessible by clicking on logos of the participating Avnet companies/products
- H. Link to jump to and from the Help / Info page with map navigation tips and further information

<http://avnet.me/azsphere-kit-map>

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Azure Sphere Get Connected Challenge

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Registered Device Location

city

Chicago

Tips when using the Map

- Hover the mouse pointer over a map pin to display more info on registered devices at that location
- Clicking a map pin will set the map filter to that location
- Zoom in or out of the map using mouse controls or the + and – buttons
- Zoom-in and panning to specific Device is also possible by filter selection (Zip / City / Device Name)

Return to Map

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