IN THE UNITED STATES DISTRICT COURT FOR THE EASTERN DISTRICT OF TEXAS TYLER DIVISION

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§	Case No: 6:19-cv-283
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§	PATENT CASE
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COMPLAINT

Plaintiff Lucio Development LLC ("Plaintiff" or "Lucio") files this Complaint against Microsoft Corp. ("Defendant" or "Microsoft") for infringement of United States Patent No. 7,069,546 (hereinafter "the '546 Patent").

PARTIES AND JURISDICTION

- 1. This is an action for patent infringement under Title 35 of the United States Code. Plaintiff is seeking injunctive relief as well as damages.
- 2. Jurisdiction is proper in this Court pursuant to 28 U.S.C. §§ 1331 (Federal Question) and 1338(a) (Patents) because this is a civil action for patent infringement arising under the United States patent statutes.
- 3. Plaintiff is a Texas limited liability company with its office address at 555 Republic Dr., Suite 200, Plano, Texas 75074.
- 4. On information and belief, Defendant is a Washington corporation with its principal place of business at One Microsoft Way, Redmond, Washington, 98052. On information and belief, Defendant may be served with process through its registered agent

Corporation Service Company d/b/a CSC, 211 E. 7th St., Suite 620, Austin, Texas 78701.

- 5. This Court has personal jurisdiction over Defendant because Defendant has committed, and continues to commit, acts of infringement in this District, has conducted business in this District, and/or has engaged in continuous and systematic activities in this District.
- 6. On information and belief, Defendant's instrumentalities that are alleged herein to infringe were and continue to be used, imported, offered for sale, and/or sold in this District.

VENUE

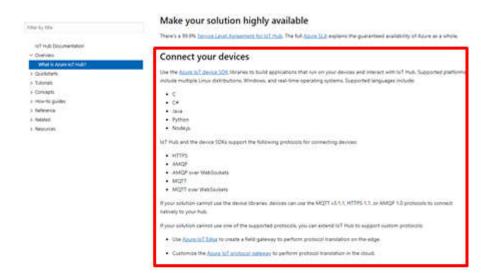
7. Venue is proper in this District pursuant to 28 U.S.C. §1400(b) because acts of infringement are occurring in this District and Defendant has a regular and established place of business in this District at 2601 Preston Rd #1176, Frisco, TX 75034.

<u>COUNT I</u> (INFRINGEMENT OF UNITED STATES PATENT NO. 7,069,546)

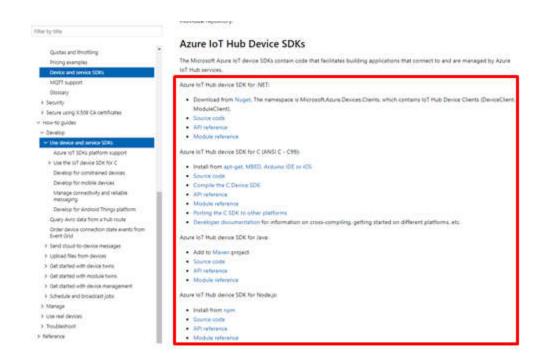
- 8. Plaintiff incorporates paragraphs 1 through 7 herein by reference.
- 9. This cause of action arises under the patent laws of the United States and, in particular, under 35 U.S.C. §§ 271, et seq.
- 10. Plaintiff is the owner by assignment of the '546 Patent with sole rights to enforce the '546 Patent and sue infringers.
- 11. A copy of the '546 Patent, titled "Generic Framework for Embedded Software Development," is attached hereto as Exhibit A.
- 12. The '546 Patent is valid, enforceable, and was duly issued in full compliance with Title 35 of the United States Code.
- 13. On information and belief, Defendant has infringed and continues to infringe one or more claims, including at least Claim 1, of the '546 Patent by making, using, importing,

selling, and/or offering for sale a software platform for embedded software development, which is covered by at least Claim 1 of the '546 Patent. Defendant has infringed and continues to infringe the '546 Patent directly in violation of 35 U.S.C. § 271.

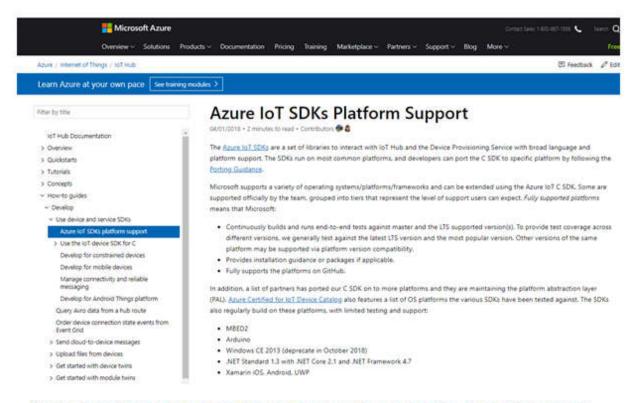
14. Defendant, sells, offers to sell, and/or uses embedded software development packages including, without limitation, the Azure IoT Hub software developer kit, and any similar products ("Product"), which infringe at least Claim 1 of the '546 Patent. The Product practices a method for producing embedded software. For example, Defendant provides the Azure IoT Hub Software Development Kit (such as IoT Hub Device SDKs and/or IoT Hub Service SDKs) which integrates IoT (Internet of Things) devices running on different operating systems/platforms/frameworks (such as MBED2, Arduino, Windows CE, .Net Standard 1.3, and/or Xamarian iOS, Android and/or UWP). Microsoft and/or its customers specifically use Azure IoT Hub Software Development Kit (such as IoT Hub Device SDKs and/or IoT Hub Service SDKs) which integrates IoT (Internet of Things) devices running on different operating systems/platforms/frameworks (such as MBED2, Arduino, Windows CE, .Net Standard 1.3, and/or Xamarian iOS, Android and/or UWP) to produce embedded software. Certain elements of this limitation are illustrated in the screenshots below and in the screenshots referenced in connection with other elements herein.



Source: https://docs.microsoft.com/en-us/azure/lot-hub/about-iot-hub



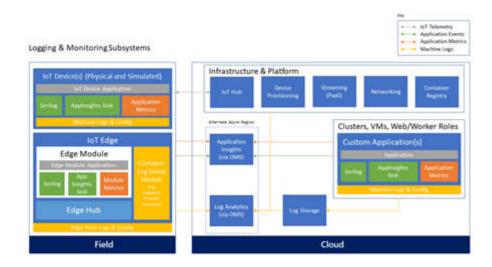
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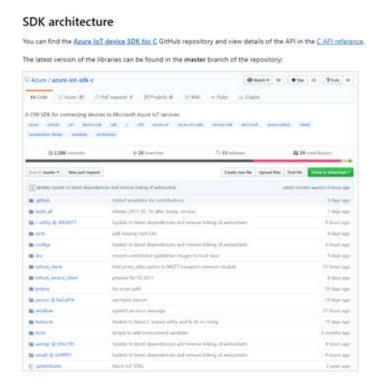
Source: https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-device-sdk-platform-support

Logging and Monitoring Architecture

The following simplified logging and monitoring architecture shows examples of typical IoT solution components and how they leverage the recommended technologies detailed above.

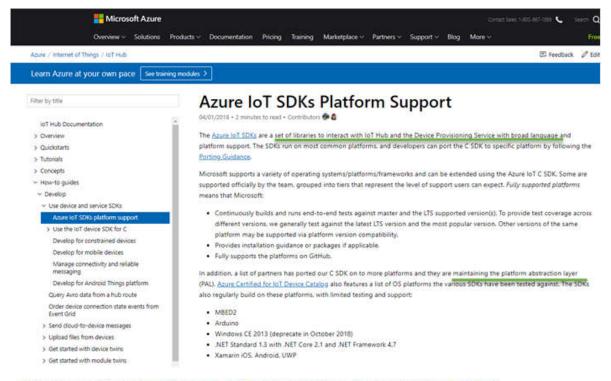


Source: http://download.microsoft.com/download/A/4/D/A4DAD253-BC21-41D3-B9D9-87D2AE6F0719/Microsoft_Azure_loT_Reference_Architecture.pdf, page 42

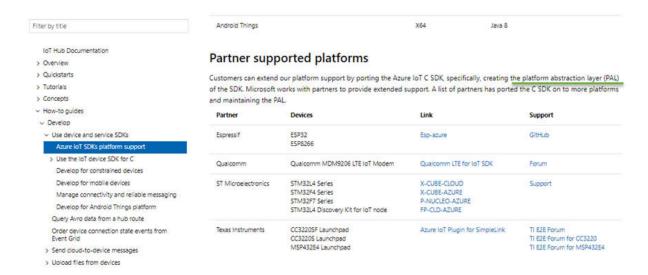


Source: https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub device-sdk-c-intro

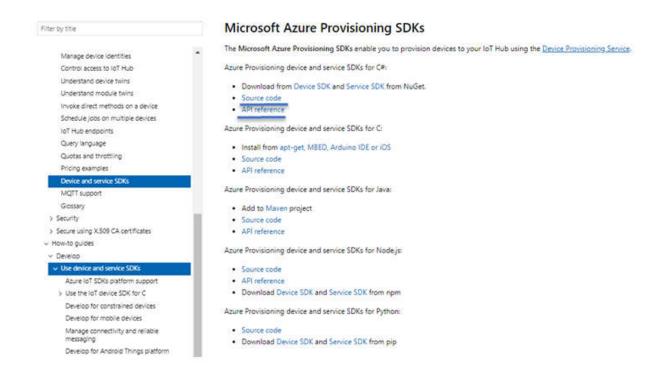
15. The Product practices providing one or more generic application handler programs. Each program has code for performing generic functions common to multiple hardware modules used in a communication system. For example, the Azure IoT Hub Software Development Kit includes generic application handler programs including drivers, libraries, and Abstraction Layers (such as Platform Abstraction Layer (PAL)) that provide multiple generic Application Programming Interfaces (APIs). The generic code provides common and generic functions to multiple hardware modules (such as IoT device) used in a communication system. Certain elements of this limitation are illustrated in the screenshots below and in the screenshots referenced in connection with other elements herein.



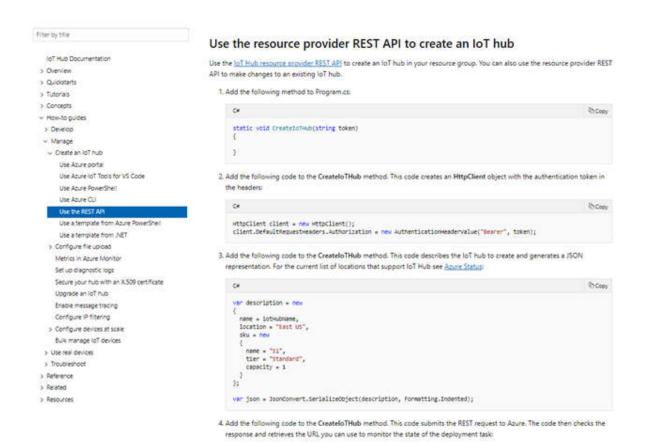
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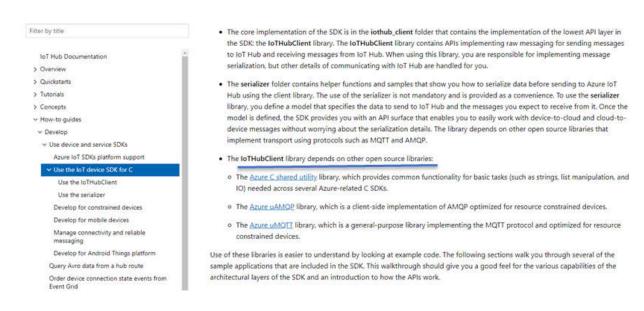
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Source: https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-devguide-sdks



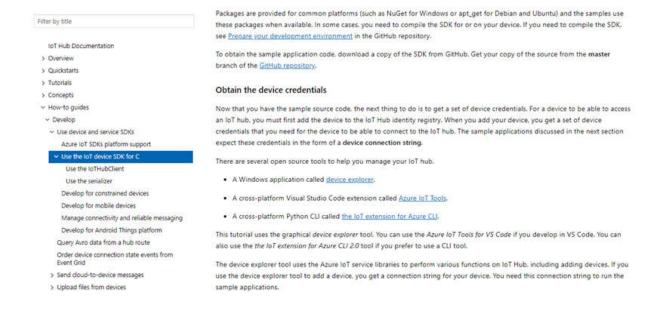
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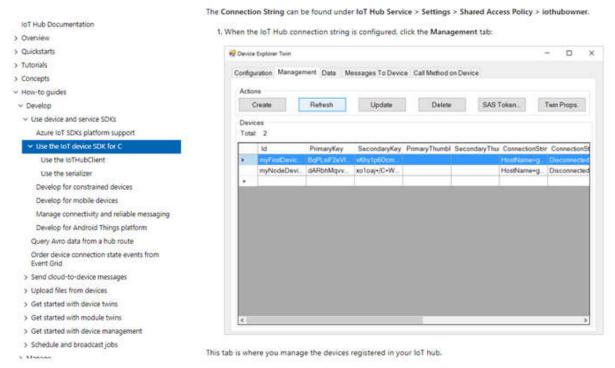
Source: https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-device-sdk-c-intro

16. The Product practices generating specific application handler code to associate

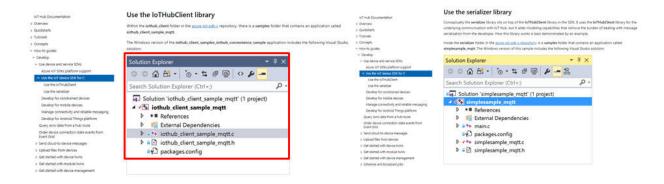
the generic application functions with specific functions of a device driver for at least one of the types of the hardware modules. For example, in addition to the Platform Abstraction Layer (PAL), Azure IoT Hub SDK also include processor-specific application handler code that are specific to particular IoT device running on different operating systems/platforms/frameworks (such as MBED2, Arduino, Windows CE, .Net Standard 1.3, and/or Xamarian iOS, Android and/or UWP). Certain elements of this limitation are illustrated in the screenshots below and in the screenshots referenced in connection with other elements herein.



Source: https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-device-sdk-c-intro



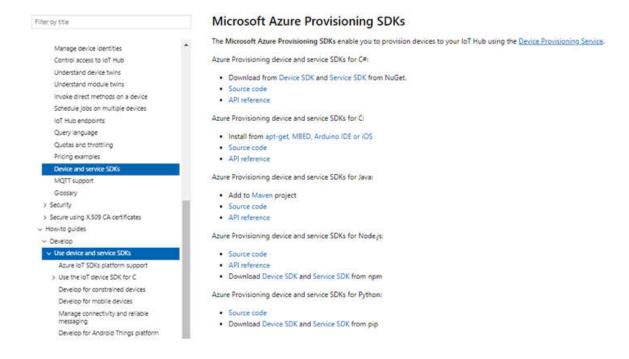
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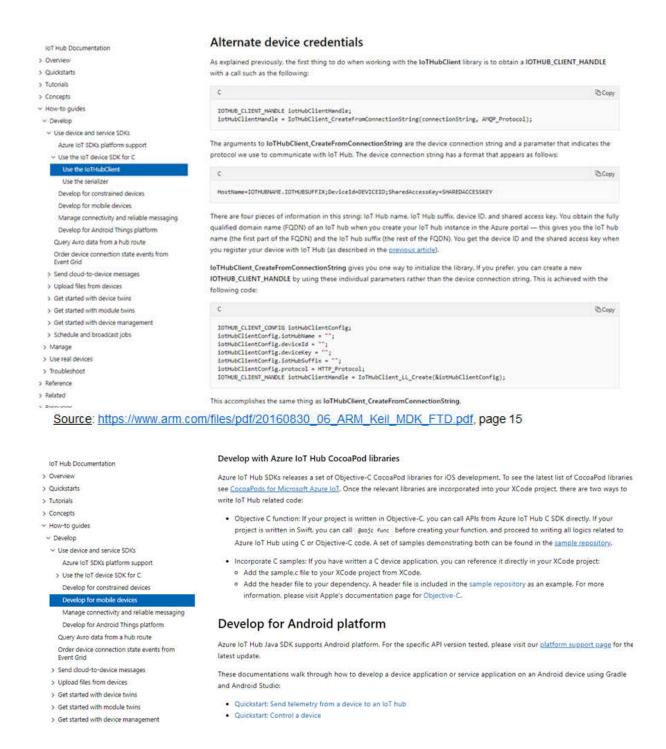
Source: https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-device-sdk-c-intro

17. The Product practices defining a specific element in the specific application handler code to be handled by one of the generic application functions for the at least one of the types of the hardware modules, and registering one of the specific functions of the device driver for use in handing the defined specific element. For example, the Azure IoT Hub SDK

generates system-specific application handler code by defining a specific element such as data structures and functions that are handled by one or more generic application functions in the Platform Abstraction Layer (PAL). Certain elements of this limitation are illustrated in the screenshots below and in the screenshots referenced in connection with other elements herein.



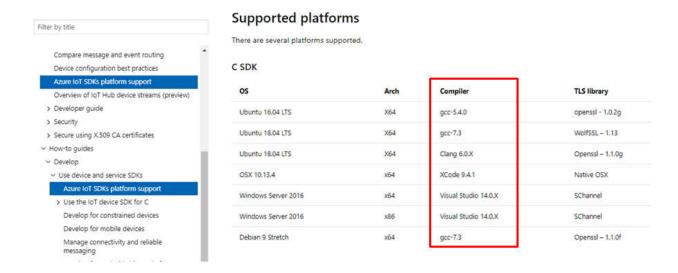
Source: https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-devguide-sdks



Source https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-how-to-develop-for-mobile-devices

18. The Product practices compiling the generic application handler programs together with the specific application handler code to produce machine-readable code to be executed by an embedded processor in the at least one of the types of the hardware modules.

For example, when a specific application is needed for a particular hardware, the generic functions and the specific functions are compiled together to yield a machine readable code. Microsoft and/or its customers compile the generic functions and the specific functions using Azure IoT Hub SDK or any other IDE/compiler (such as GCC, Clang, XCode, Visual Studio and/or Python) supported by Microsoft. Certain elements of this limitation are illustrated in the screenshots below and in the screenshots referenced in connection with other elements herein.



Source: https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-device-sdk-platform-support



Source: https://docs.microsoft.com/en-us/azure/iot-hub/iot-hub-device-sdk-platform-support

Compiling the C Device SDK

In order to compile the C SDK on your own, you will need to install a set of tools depending on the platform you are doing your development on and the one you are targeting. You will also need to clone the current repository. Detailed instructions can be found below for each platforms:

- · Setting up a Windows development environment
- Setting up a Linux development environment
- Setting up a Mac OS X development environment
- Cross compile the C device SDK (targeting Raspbian and using Ubuntu as host)

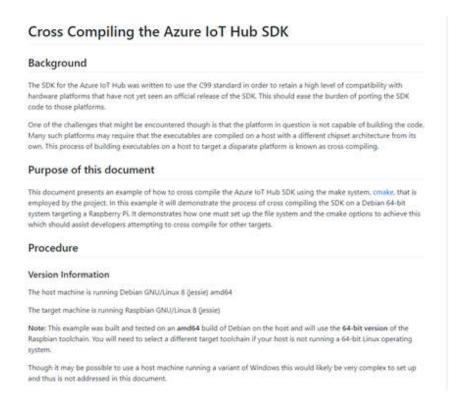
Samples

The repository contains a set of simple samples that will help you get started. You can find a list of these samples with instructions on how to run them here. In addition to the simple samples found in the current repository, you can find detailed instructions for the certified for Azure IoT devices in our online catalog

Read more

- Azure IoT Hub documentation
- Prepare your development environment to use the Azure IoT device SDK for C
- Setup foT Hub
- Azure IoT device SDK for C tutorial
- . How to port the C libraries to other OS platforms
- · Cross compilation example
- C SDKs API reference

Source: https://github.com/Azure/azure-iot-sdk-c/blob/master/iothub_client/readme.md#compiling-the-c-device-sdk



Source: https://github.com/Azure/azure-iot-sdk-c/blob/master/doc/SDK cross compile example.md

- 19. Defendant's actions complained of herein will continue unless Defendant is enjoined by this court.
- 20. Defendant's actions complained of herein are causing irreparable harm and monetary damage to Plaintiff and will continue to do so unless and until Defendant is enjoined and restrained by this Court.
 - 21. Plaintiff is in compliance with 35 U.S.C. § 287.

PRAYER FOR RELIEF

WHEREFORE, Plaintiff asks the Court to:

- (a) Enter judgment for Plaintiff on this Complaint on all causes of action asserted herein;
 - (b) Enter an Order enjoining Defendant, its agents, officers, servants, employees,

attorneys, and all persons in active concert or participation with Defendant who receive notice

of the order from further infringement of United States Patent No. 7,069,546 (or, in the

alternative, awarding Plaintiff a running royalty from the time of judgment going forward);

(c) Award Plaintiff damages resulting from Defendant's infringement in

accordance with 35 U.S.C. § 284;

(d) Award Plaintiff pre-judgment and post-judgment interest and costs; and

(e) Award Plaintiff such further relief to which the Court finds Plaintiff entitled

under law or equity.

Dated: June 27, 2019

Respectfully submitted,

/s/ Jay Johnson

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State Bar No. 24067322

D. BRADLEY KIZZIA

State Bar No. 11547550

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EXHIBIT A