Artibraino Things To Internet of Things (t2iot) Platform

An Overview of Features and Capabilities
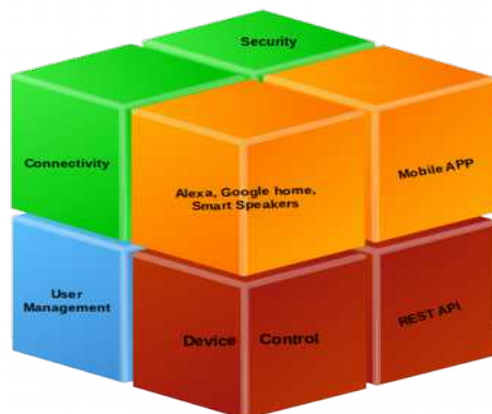
contact@artibraino.com

May 2020

Table of Contents

Executive Summary

This paper focuses on various features of the Artibraino t2iot platform, to help both new and legacy devices get connected to internet making them IoT devices. These features are designed to bring seamless connectivity, access, control, monitor and get better insights from the data collected.

Introduction

An IoT platform is a suite of components that enables deployment of apps that monitor, control and manage the devices connected to a common server. The suite also allows the connected device to transmit and collect data from one another. In simpler words, an **IoT platform** is the data junction of any device connected in an IoT environment.

Well, as of now there are billions of devices that are connected to the IoT environment and as per Gartner's forecast, the number shall touch the figure of 30 billion connected devices by now. As the true value of IoT is being realized, companies are accelerating towards a new "data economy," where products don't simply generate direct revenue; they also create valuable data that is funneled back into the organization.

In the last few years, the Internet of Things (IoT) has transformed from a buzzword to the critical business need specifically for appliance manufacturing industry. Many of the big global appliance makers who can afford to have their own IT R&D team are bringing their smart appliances in the market creating significant competitive advantage for them and entry barriers for many otherwise dominant and established in the market as they are yet prepare to catch up with technology .

Artibraino t2iot platform is designed to support the established appliance manufacture to adapt IoT technology to continue the market dominance.

Solving IoT Puzzle for the Appliance Maker

Artibraino's t2iot platform solves IoT puzzle by perfectly fitting each piece of the puzzle in seamlessly in robust manner -

Connectivity

The first basic requirement of the IoT is to support various connection protocols for seamless connectivity, t2iot platform have pre-integrated adapters to support common protocols and technology like WiFi, Zigbee, LoRa, Bluetooth, 3G/4G.

Security

An IoT platform needs to be highly secure, understand potential security threats and address them to ensures that you aren't compromising your data or that of your customers, The t2iot platform provides multi-layer role based security with end to end encryption ensuring uncompromised security.

Reliability

An IoT platform must be stable and dependable. You and your customers depend on your platform to control their appliance. It is difficult to trust the technology if it is not reliable. We support creating trust and confidence in your customer . Our offline control mechanism ensures thats appliances are always controllable in normal offline mode in case of internet unavailability to the appliance.

Customization & Integration

The ability to customize your IoT platform and integrate with your existing IT infrastructure is of utmost importance, t2iot platforms ensures seamless integration and customization by industry standard REST interfaces.

Scalability

As your product numbers grow, your platform and supporting services need to be able to scale with it, without compromising the integrity, security, reliability. T2iot distributed architecture ensures that you can scale up with very granular control based on your needs.

Smart Speakers

Intelligent speakers like Amazon Alexa and Google home bring completely new dimension the way user interacts with appliances with voice commands . t2iot comes pre-integrated with these platforms ensuring you can immediately adapt these features in your appliance.

Mobile App

Mobile applications play a significant role in IoT enabled smart appliance, t2iot allows you to integrate with your application or use off-the-shelf Artibraino iSwitch Application without any additional cost.

Cross-device communication

There are scenarios when two IoT devices need to communicate with each other, the t2iot platform is designed to seamlessly enable such communication when required.
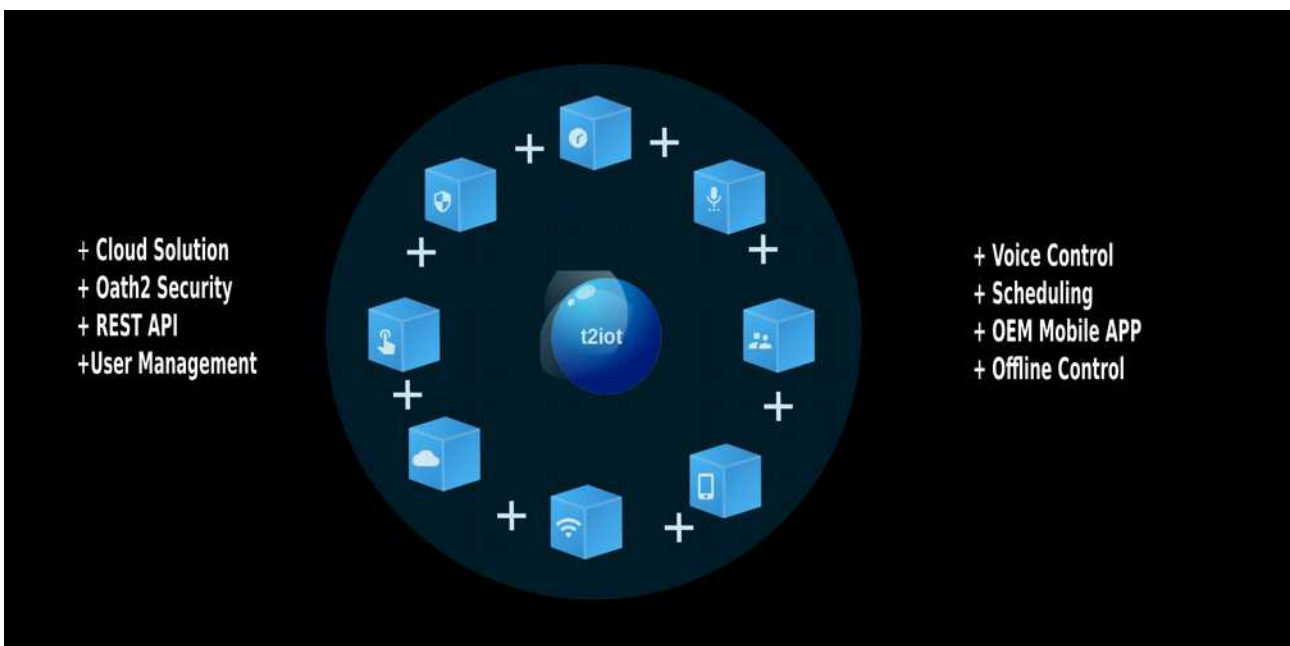
Convenience for Customer

The t2iot platform is designed with clear vision that an IoT appliance designed for consumer market need to be convenient and simple for end customer, hiding all technical complexity.

Artibraino iSwitch application is pre-integrated with t2iot that customer landing and adding appliances to the platform is as simple as few clicks, supporting below key features -

- Device registration without any hassle or programming knowledge.
- Multi-tenant architecture
- Device identity management
- Asset management
- Remote alert and troubleshooting
- Smart schedules
- Toggle switching

Conclusion

IoT, along with cloud computing, is a major contributor to the fourth industrial revolution and is inevitably becoming a part everyone's life. IoT adaptation has been significantly accelerated with arrival of smart speakers like Alexa and Google home by fundamentally changing the way customers use and interact with house hold appliances. Today IoT is changing from nice "thing to have" to "must have" for many appliances, at the same time IoT technology is complex and continuously evolving. t2iot platform ensures you are not only benefiting from the IOT revolution but also ahead of your competition without significantly increasing your R&D cost and cost of ownership for such systems.

For further details and demo please write us at sales@artibraino.com.