Mozilla restarted the open-source IoT platform Project Things under the name WebThings

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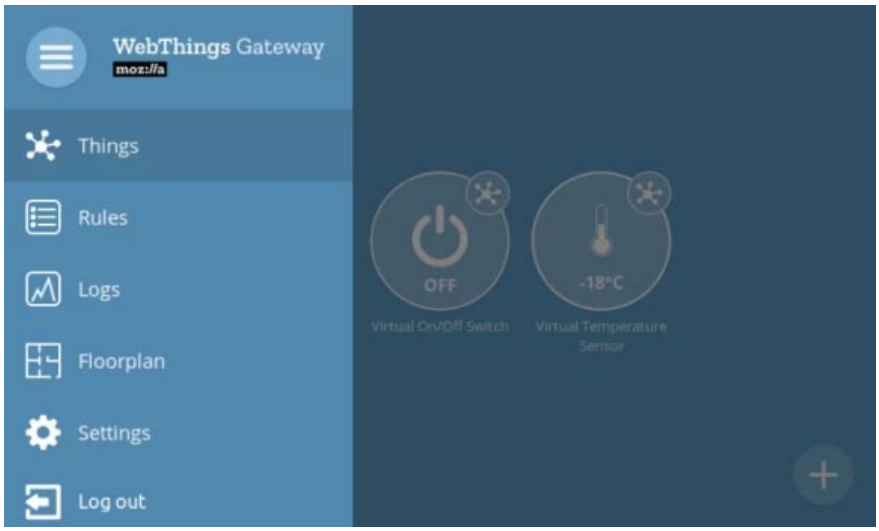
After a long period of hardship, with many difficulties and contradictions seemingly impossible, finally, the Mozilla team was able to temporarily breathe a sigh of relief with the initial success of Project Things, an open processing system of the World Wide Web Consortium Web of Things (W3C) standard, which monitors and controls connected devices (IoT). Project Things is entering the process of completing a test phase with a completely new name - Mozilla WebThings - and has also added some useful features such as recording access data, creating alarms and multiple Other network features.



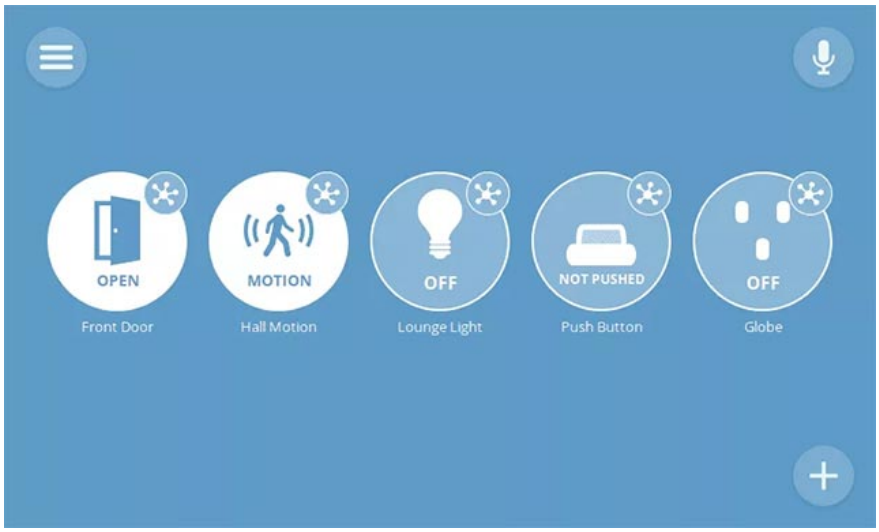
1. [Infographic] How does IIoT impact key industries?

'The mission that the Mozilla IoT team has cultivated over the years is to create a system for processing and deploying the Web of Things, how to demonstrate the inherent core values, while also can help promote IoT standards for security, privacy and interoperability.

"We really expect a future in which Mozilla WebThings software installed on commercial products can provide consumers a reliable platform for operating and managing the The device connects their smart home, 'said software engineer Ben Francis, head of IoT research at Mozilla in a blog post.

Basically, Mozilla WebThings consists of two core components: WebThings Gateway, the factor responsible for distributing software that focuses on privacy and security for smart home gateways. Second is WebThings

Framework, a library of reusable software components (reusable software components).

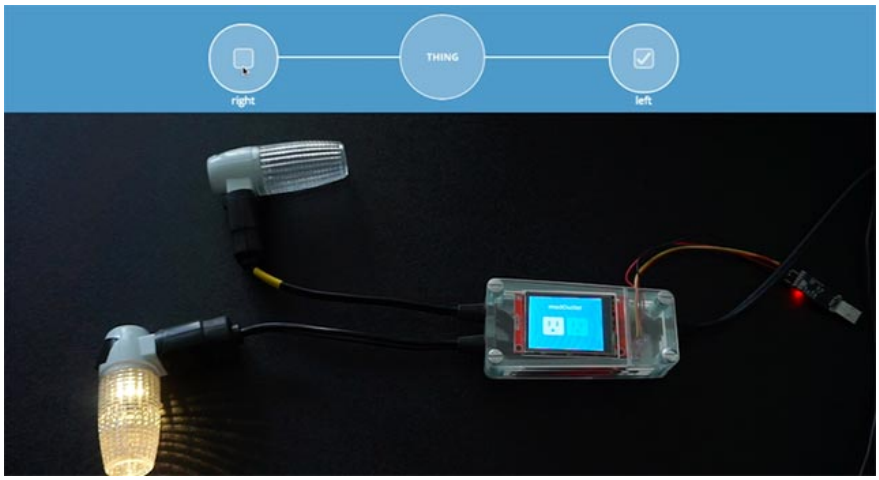


1. The alarming increase in the number of attacks targeted at IoT devices

The latest release of WebThings Gateway - version 0.8 - allows users to log private data (such as temperature) from their smart home devices, as well as visualize that information in expressions. Interactive map. The logging feature can be turned on via the Settings menu, from the Experiments screen and at the same time logs can be saved for hours, days or even weeks.

'This feature is still in beta, but basically referencing such logs will give you a more comprehensive and insightful look at the types of data that your smart home device has. are collecting, as well as providing an analysis of the amount of data you feel should be shared with others through third-party services, 'added engineer Ben Francis.

In addition, the WebThings Gateway 0.8 also provides the ability to create new alarms for devices such as smoke detectors, carbon monoxide detectors and motion detectors. Specifically, this feature will allow users to check whether an above-mentioned smart alert tool is working, and then configure alert rules to send information to users. In case there is any alarm activated while they are not at home.



1. The 5G era is near, but are security procedures ready?

Finally, Mozilla revealed that it is developing a new distribution of WebThings Gateway based on OpenWrt, a Linux operating system aimed at embedded devices. It targets routers for external users, and can also act as a Wi-Fi access point - greatly improved over previous WebThings Gateway releases, which can only be connect to existing wireless networks as a client.

'WebThings Gateway is gradually developing into a software distribution for routers. This can be seen as the beginning of a new development phase of this software. '

Earlier, Mozilla officially announced Project Things in February 2018, several years after establishing a research team at W3C dedicated to the Web of Things project. At the most basic level, this project has tried to find ways to re-use programmable web standards (eg HTTP and JSON), semantics, real-time (eg WebSockets) and society (OAuth) for application layer simplifies internet deployment and management.

1. The rise of Botnet IoT and how to protect smart devices

It can be said that currently is a better time for the launch of Project Things, when IoT Analytics recently forecast that the number of devices connected globally will increase to 10 billion devices. by 2020 and may reach 22 billion devices by 2025. The reason for such a strong development in the IoT world is that consumers and businesses are gradually realizing the benefits of IoT and adopting implementation. These devices are in many areas of life as well as their business activities.

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