nabto

Remote control your IoT devices with P2P technology
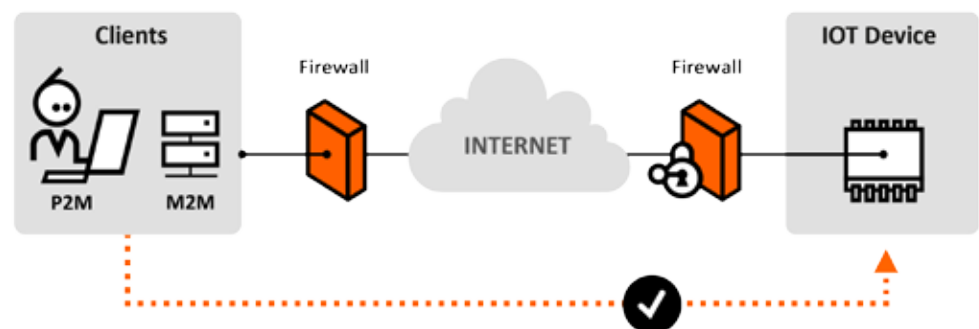
secure – low latency – ultra-high performance

The Nabto Platform

Nabto provides a full communication infrastructure to allow real-time direct, secure communication between end-user client devices and resource-constrained IoT devices.

An example of a client device is a smartphone, tablet or PC. Examples of IoT devices are surveillance cameras, thermostat or heating controls, alarm systems, electrical controls and more which are normally very resource constrained with only a few kilobytes of memory.

The Nabto platform provides direct peer-to-peer connectivity with no firewall or dynamic IP hassle, and can communicate any content ranging from simple temperature data to fully fledged audio/video streaming feeds. This is done with a minimum of latency and with secure technology that ensures privacy of the data, which is only shared between the end-user client device and the IoT device.

The unique benefits of P2P IoT

In P2P-based IoT, data is shared directly between the end-user client and the IoT device, whereas in database-driven IoT data travels to a centralized server that stores and processes the data in a cloud database. Here are three main benefits that make P2P-based IoT a unique and useful solution:

Minimum Latency

It comes down to speed: Latency in P2P-based IoT is very low thanks to the direct connection between client and device. This is important for user experience as delays of more than 0.1 seconds can make device users feel like their actions are not having any effect if they click on something. Thus latency plays an integral role in most IoT cases. In contrast, latency in many database-driven IoT solutions is often more than five seconds.

Maximum Privacy

Privacy is another big plus in P2P-based IoT. The data between the end user and IoT device is transmitted directly with end-to-end encryption - contrary to database-driven IoT where data is stored (potentially even unencrypted) in the cloud with no ability for the user to control who can access it. The privacy offered by P2P devices makes it easier to comply with the European Union's GDPR legislation (General Data Protection Regulation).

Low cost

Hosting data in the cloud is expensive business - as is the case in database-driven IoT solutions. In P2P connections, the user does not need this data flow to the cloud.

In fact, only a fraction of data is mediated to create a connection between the end user and the device which results in an overall much lower cost solution.

Vision

Our vision is to make the world's best P2P-based IoT platform

Mission

Nabto's mission is to help vendors of electronic devices make products Internet accessible and deliver a P2P infrastructure that enables secure and direct remote connectivity to IoT devices.

Nabto was created on the basis of providing a unique solution based on P2P technology for communication to IoT devices. The solution, the Nabto platform, enables end users, installers and automatic data-collectors to create a secure and direct connection to a device, where data can be accessed, or commands can be issued securely without any firewall issues.

The uniqueness of the Nabto platform is the P2P technology that has the benefit of making the connection to the IoT device directly, without storing data in the cloud. This makes the connection and data sharing much more secure as well as ensures an ultra-low latency.

The main goal of Nabto is to provide faster, more secure and better connections to IoT devices that create value to the end user by making life easier.

CARSTEN RHOD GREGERSEN
CEO

Carsten is the founder and CEO of Nabto, and in 2005 he developed the technology which became the foundation of Nabto today. As an innovator by heart, Carsten has prior to Nabto nursed 4 other companies and he has more than 15 years of experience as CEO of software and innovation companies. He holds a master degree in Computer Science and a bachelor degree in Mathematics from Aalborg University along with a Diploma Graduate degree from Aarhus School of Business.

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ULRIK GAMMELBY
CTO

Ulrik has been with Nabto since the company's infant days, and has made key contributions to shaping Nabto and its products. Ulrik has served in various software engineering positions in Denmark and abroad. He holds a master's degree in Chemistry with a minor in Computer Science from University of Aarhus.

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KARSTEN VIUF
Sales director

In 2009 Karsten joined Nabto, bringing with him deep experience in Sales Management. With a good insight into the technical side of embedded software, great communication skills and a strategic eye, Karsten is an asset that contributes to Nabto's unique competitive advantages. Karsten holds a master degree in Management, Commerce and Accounting from Copenhagen Business School.

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