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●「インターネット・オブ・シングス（IoT）」、まずはサポートするプラットフォームが必要

【GigaOM, 2014/06/19】
　様々な分野で期待が高まる「インターネット・オブ・シングス（IOT）」だが、期待を現実のものとするには基盤となるインフラが欠けている。GigaOM 主催のイベントでは、この問題についてよく知る 4 人の識者が今後何が必要になってくるかについて意見を交えた。
　データサービス・プロバイダ、デジタルリアルティのタマラ・ブデック氏は、IOTに必要な物理層の構築はまだ始まったばかりで、新たなデータセンターの建設やより多くの無線周波数が必要になってくるという。
　また、デル・リサーチのジャイ・メノン副社長兼 CRO は、国際的なセキュリティ/プライバシー対策でも課題は多く、現在収集されているデータ量を考えてもこの問題を解決するのは極めた多大な労力を要するだろうという。
　同氏は、IOT のインフラ構築では物理的施設だけでなく、予測性に富み、かつ対策を示唆できる次世代の分析ツールも要求されるとする。
　IOT のインフラ構築には、なぜ IOT が必要なのかと哲学的背景が求められるという意見には、データスケールのピーター・バカス CEO、Dyn のコリー・ヴォン・ウォレンスタイン氏等他の参加者も同意。
　ヴォン・ウォレンスタイン氏は、IPv4 アドレスの枯渇が目前に迫っている現状すら IPv6 への移行を促す要因になっていないと指摘。新たなアーキテクチャ構築を促すには、それがもたらす価値をチャンスについて伝えていかねばならないと述べ、現在は消費者が既に取った行動に関するデータを活用することにばかり注目されているが、IOT の真の価値は全く新しい形態のデータを取得できる適切なインフラが完成することで初めて生まれるとした。

（参考）本件報道記事
The "internet of things" could be great, but first we need a platform to support it
By Jeff John Roberts

Summary:
Much of the potential of IOT will exist only in theory if there is no infrastructure to support the coming stampede of data it will generate. Here are

a few ideas of what needs to happen next.

The "internet of things" refers to the idea of turning everyday objects around us into responsive data devices. It's one of the hottest ideas in tech right now — even if we're totally lacking the resources we need to support it.

Speaking at Gigaom's Structure event in San Francisco, four experts well-versed in the practical problems of making this happen offered their thoughts about the infrastructure that will be needed to make use of it.

For Tamara Budec, an executive with data services provider Digital Realty, the building of the physical layer for the internet of things has barely begun, and moving forward will require constructing new clusters of data centers and also and freeing up more wireless spectrum.

There are also questions of how to build in global security and privacy controls, according to Jai Menon, VP and chief research officer at Dell Research. The challenge is especially daunting, Menon said, given the sheer scale of data that can now be collected. He pointed out that capturing all the information points generated by New York City's taxi fleet would produce an unmanageable 26 exabytes a year.

Menon also noted that building an infrastructure for the internet of things will involve constructing not only physical plant, but next-generation analytic tools that are not just predictive, but prescriptive too — for instance, sensors that would not just predict a storm tomorrow, but also be capable of sending emergency responders to meet it.

Others shared this notion that building this infrastructure will require not just investments, but a better philosophy about why we are doing so in the first place.

 "We talk about big data, but what we really want is useful data," said Peter Bakas, CEO of DataScale, adding that building to scale is all well and good, but it's hard to do so if no-one knows what exactly they're scaling for.

To go from hype about the internet of things to actually building the platforms

to harness it may also require more than just pointing out what will happen if we don't build it.

Cory von Wallenstein, Chief Technologist at Dyn, pointed out that out everyone in the tech world knew that we're running out of IPv4 addresses, but that fact hasn't prompted people to rush out and acquire IPv6 ones. Instead, people are just stretching the existing internet architecture — something that won't be possible as potentially billions of new devices come online in coming years.

To encourage people and companies to build a new architecture that welcomes these devices will require explaining the opportunity and incredible value that they could bring. Right now, von Wallenstein says, we are mainly looking for gold in "data exhaust" derived from activities that consumers are already performing; but the real value will come when the right infrastructure is in place to get entirely new forms of data.

The panel was hosted by Dave Ohara, the founder of GreenM3 and an analyst with Gigaom Research, and a video embed of the session follows below.

Source:
http://gigaom.com/2014/06/19/the-internet-of-things-could-be-great-but-first-we-need-a-platform-to-support-it/

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