IoT: Client Devices

Future Growth and Potential Problems

Scale

Billions of connections

How are we going to address these devices?

Billions of devices

How are we going to integrate these into homes, companies?

Apps, Services, etc.

How many apps and services will be in place to support these?

Security

Credentials & Keys

We can't even change default credentials, why not?

Services

Programming applications isn't new, why can't we do it right in IoT?

Operating Systems

It's not like we harden systems well in general, but we need to do better

Surveillance

Collected Data

How much data are companies going to collect between IoT and apps?

Companies and Conglomerates

Companies collecting as much as they can; what about conglomerates?

Governments

How about privacy protections from governments?

Sustainability

Billions of Devices

Each device is low power, but it adds up

Billions of connections

These are wireless connections - will congestion be a problem?

Data storage

Cloud computing may be more economical, but we're talking lots of data