



Transforming IoT Security Through Visibility

Ricardo Hernandez
Sales Manager Spain & Portugal



Exponential IoT Growth

PC's & Mobile Devices

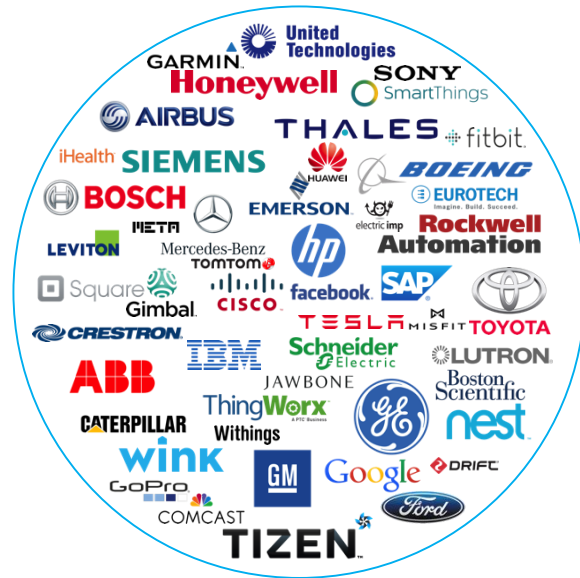


Took **25 years** to get to
10 Billion devices*

Source: Gartner IoT, PC and Mobile device forecast 2015

Reference acronym glossary at the end of presentation

IoT Devices



Will take only **5 years** to get
to **30 Billion devices***

IoT Device Landscape is Fragmented

IoT Device / Solution Vendors by Physical Environments



Device landscape is going from few devices and OS types to innumerable devices and OS types

Source: Harbor Research, 2014; McKinsey Global Institute, 2015

Reference acronym glossary at the end of presentation

A Perfect Storm of Threats Creating New Security Needs

Attacks targeting devices that corporations can't see



Insecurity of Things: Danger Rankings



DISASTROUS

Cause irreversible damage



Illegal remote monitoring



Tampering with temperature controls



DISRUPTIVE

Disrupt corporate and operational processes.



Spying via video and microphone



Accessing company information



Snooping on calls



DAMAGING

Enable information stealing



Obtaining user credentials



Extracting Wi-Fi credentials to carry out further attacks

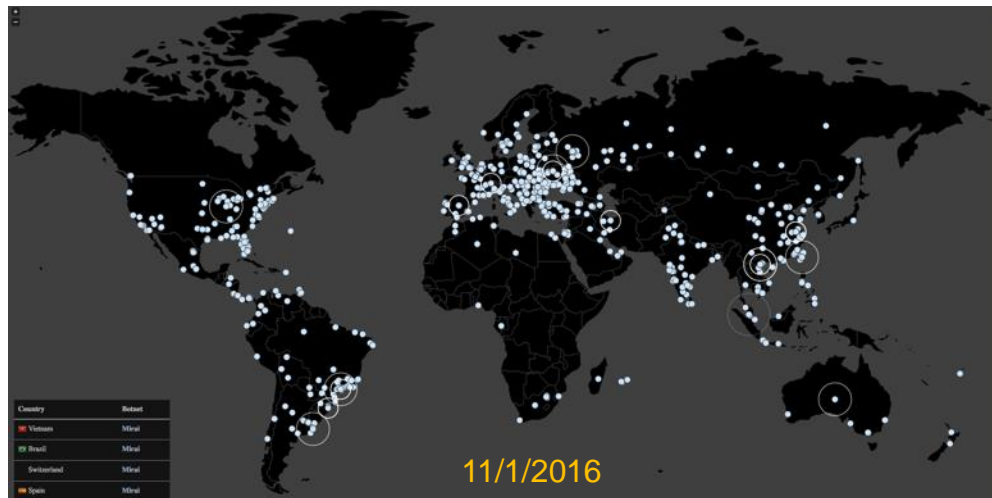
Mirai Botnet – Already Here

Mirai used in DynDNS attack on ~100K devices involved.



Follow Mirai Attacks on Twitter – [@MiraiAttacks](https://twitter.com/MiraiAttacks).

A tweet is sent each time a Mirai attack is detected, as of Feb 6th 2017, there were over 1,750 tweets with count starting in October 2016.



See

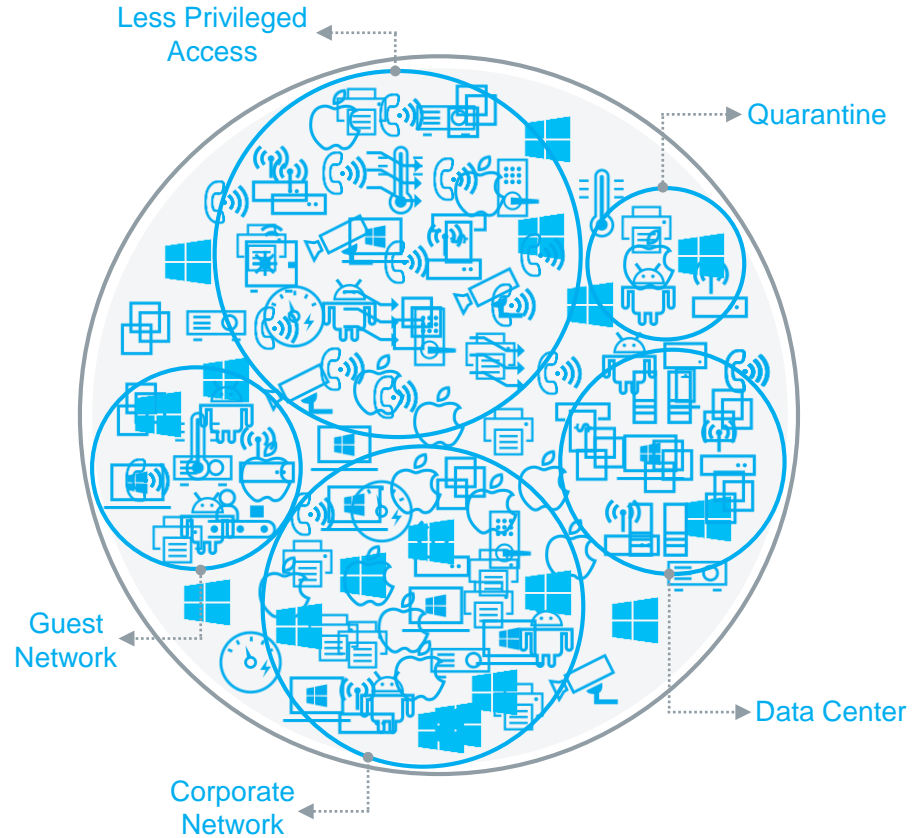
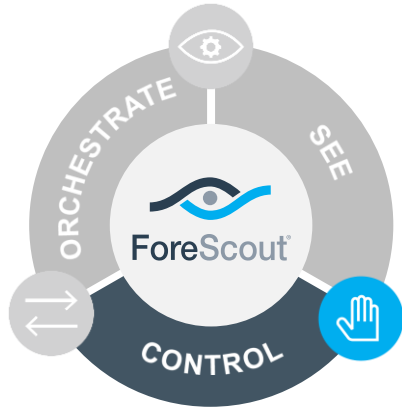
Many IoT devices are invisible to the traditional security systems



| | Manageable with an Agent | Non-Traditional/IoT |
|-------------------|--------------------------|---------------------|
| Computing Devices | | |
| Network Devices | | |
| Applications | | |
| IoT | See with | |

Who are you?
Who owns the device?
What type of device?
Where/how are you connecting?
What is the device hygiene?

Control

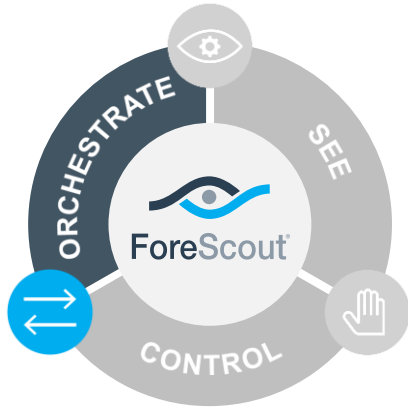


Notify

Comply

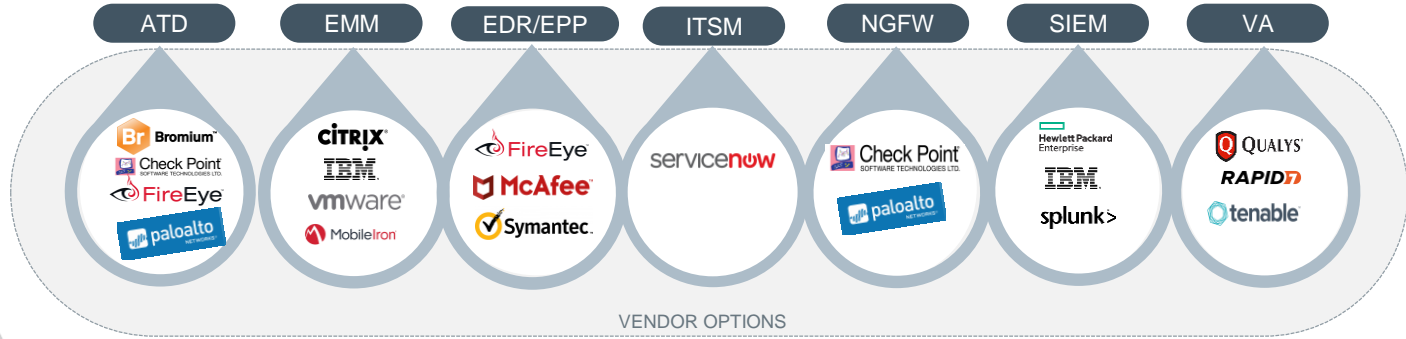
Restrict

Orchestrate



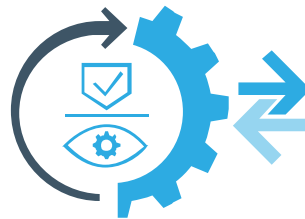
BREAK DOWN SILOS

MAXIMIZE EXISTING INVESTMENTS



VENDOR OPTIONS

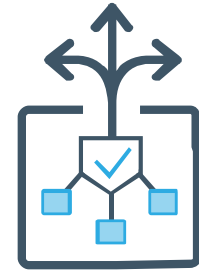
Share Contextual Insights



Automate Workflows



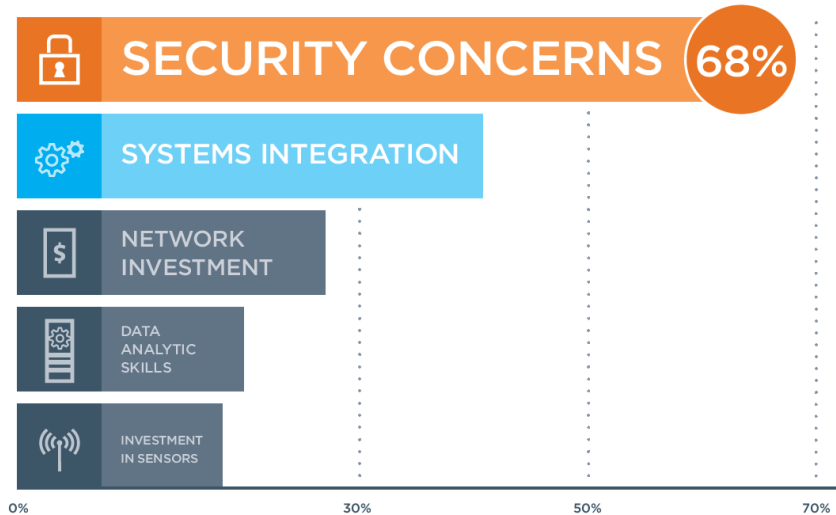
Automate Response Actions



*As of April 2017

Security is the Top Impediment to IoT Adoption

WE ASKED:
What are the
biggest IT
challenges
with respect
to IoT?



Source: 2016 ForeScout IoT Survey

Reference acronym glossary at the end of presentation