

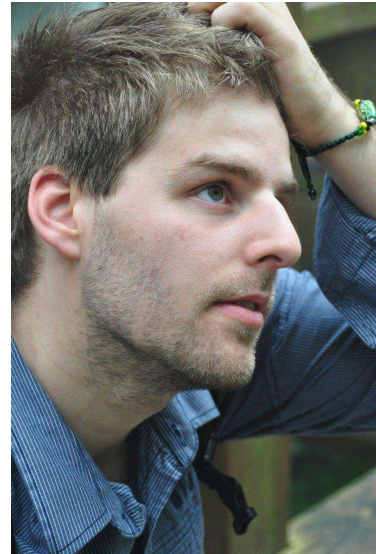


**SOFTWARE UPDATES
FOR THE IOT**

hawkBit

MICHAEL HIRSCH

- Keeping the IoT up-to-date
- Developer and architect at Bosch IoT Software Provisioning Cloud Service
- Germany, Stuttgart



 [@hirschmicha](#)  [@michahirsch](#)  michael.hirsch@bosch-si.com

WHY WE NEED SOFTWARE UPDATES IN THE IOT?

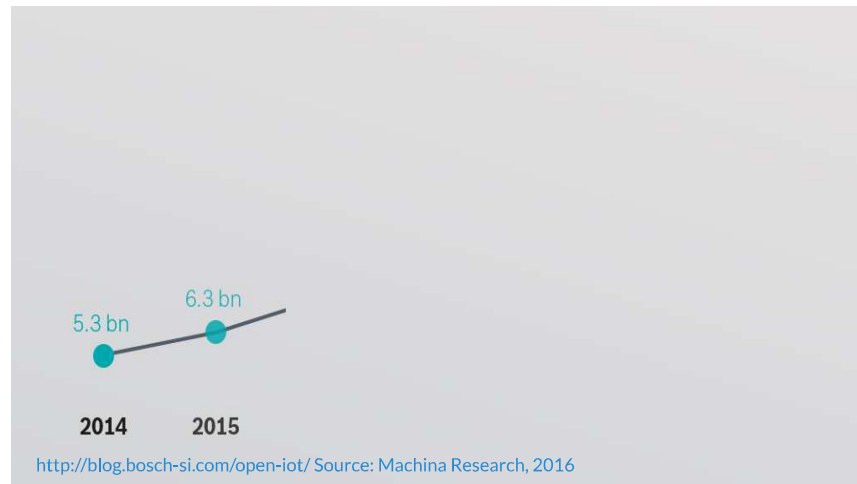
How an army of vulnerable gadgets took down the web today

Nick Statt
Saturday, 22 Oct 2016 | 7:38 AM ET
THE VERGE

CYBERCRIME
Mysterious cyber attacks disrupt Twitter, Netflix, Spotify service

By Rob Verger · Published October 21, 2016 · FoxNews.com

f t g e



ENSURES A SECURE IOT.

ENABLES AGILE DEVELOPMENT FOR HARDWARE AND HARDWARE NEAR DEVELOPMENT.

CHALLENGES!

of software updates in the IoT

SECURITY

malicious software update process, really not good.

API STABILITY

being able to update old hardware versions is great.

TECHNICAL AND FUNCTIONAL SCALEABILITY

11 billion IoT devices in 2018, that's alot.



Eclipse IoT as HawkBit project since October 2016, Dennis Melzer

THE SOLUTION

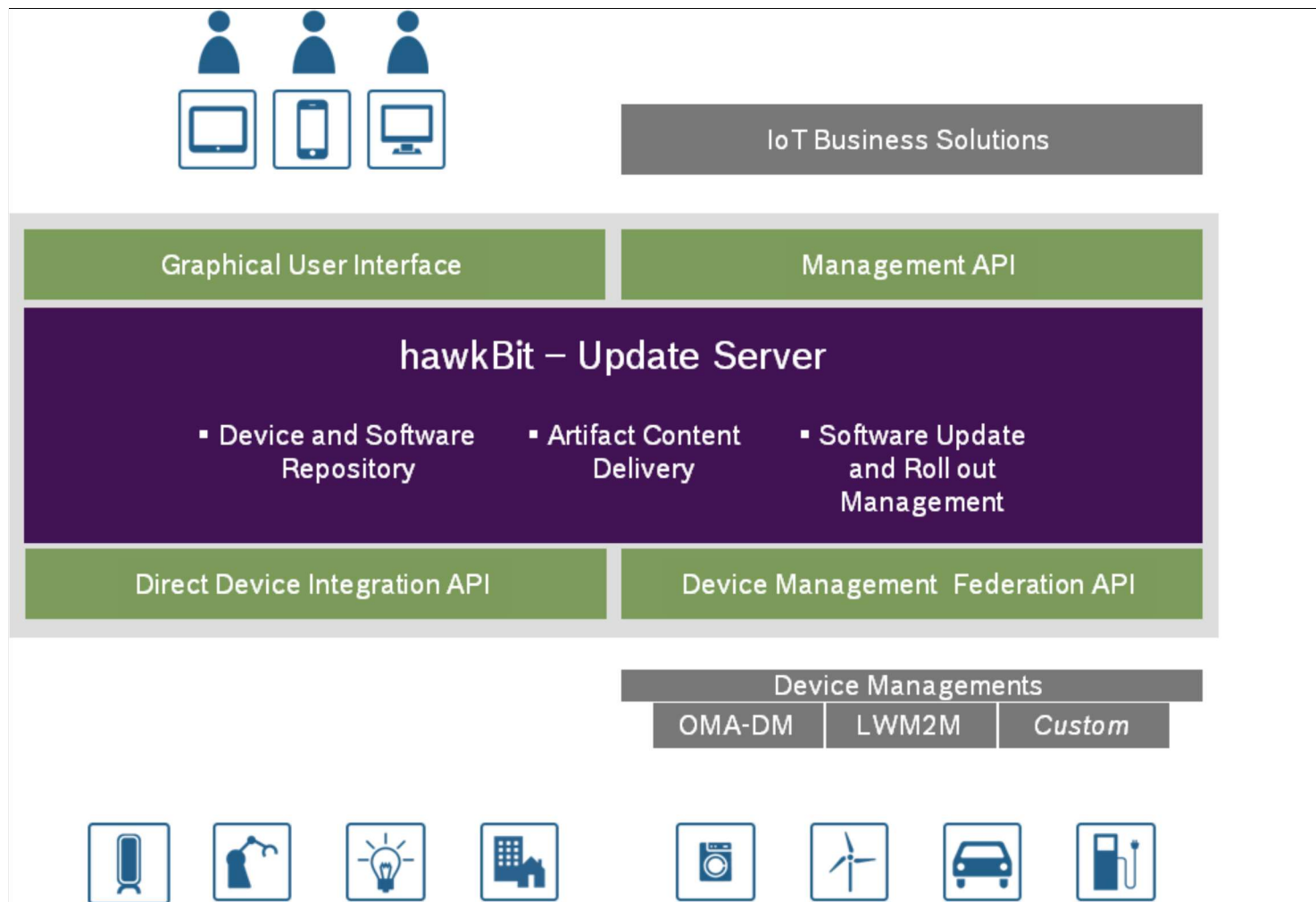
PROJECT HAWKBIT

hawkBit

HAWKBIT IN 3 POINTS

- Domain independent back-end solution for managing software rollouts in IoT.
- Direct and indirect device integration available.
- Cloud ready powered by Spring Boot.

HAWKBIT BASICS - OVERVIEW

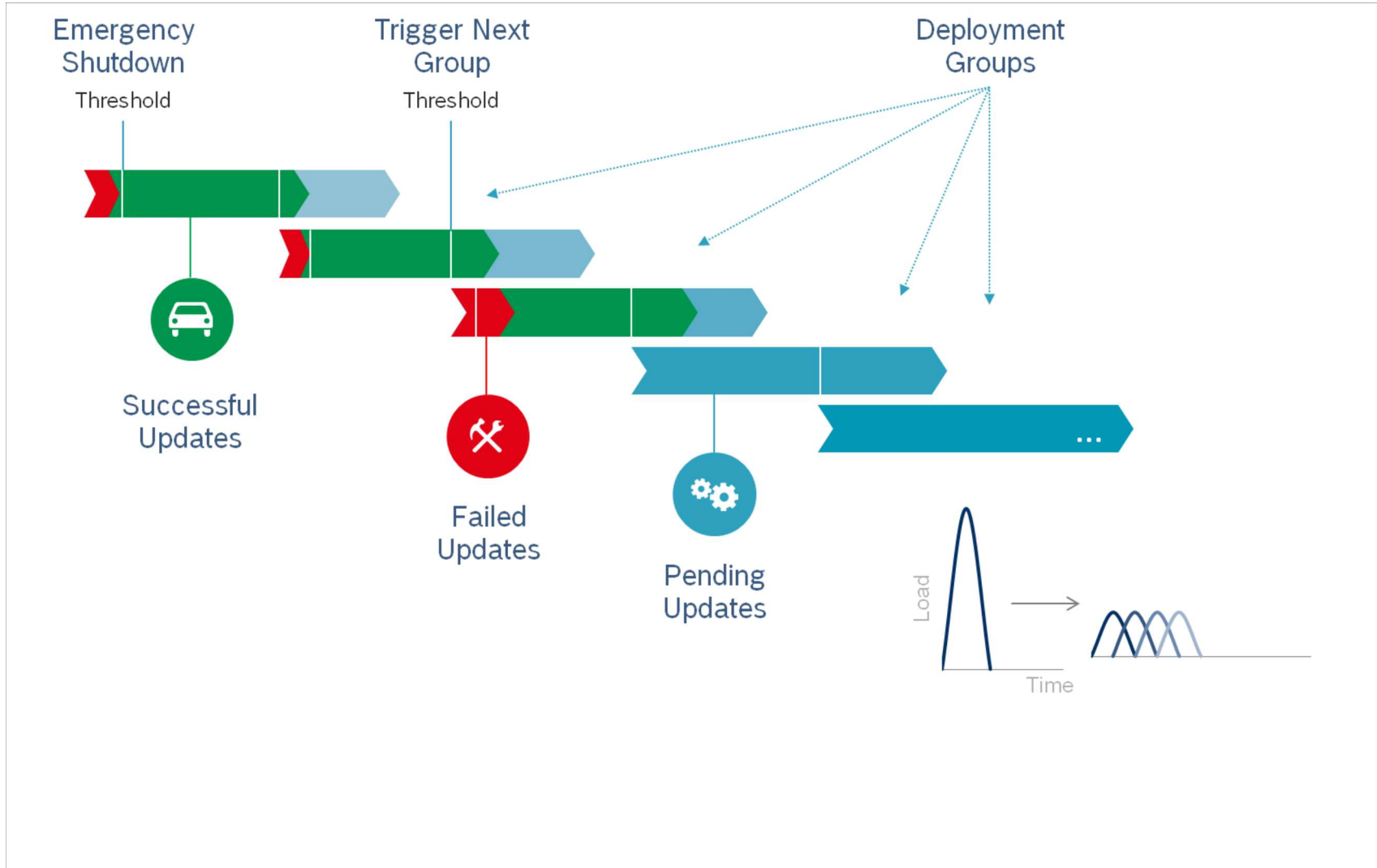


HAWKBIT BASICS - SOFTWARE PACKAGE

A software update is not a single file!



HAWKBIT BASICS - ROLL OUTS





DEMO
hawkBit in action

FURTHER INFORMATION

- Want to know more?

 [@hirschmicha](#)  michael.hirsch@bosch-si.com

- Interested? Join the project on Eclipse/GitHub/Gitter.

 [eclipse@iot.hawkbit](#)  [@hawkBit](#)  [@hawkBit](#)

THANK YOU!

There are two ways to write error-free programs; only the third one works.

(Alan J. Perlis)

So, keep up-to-date!