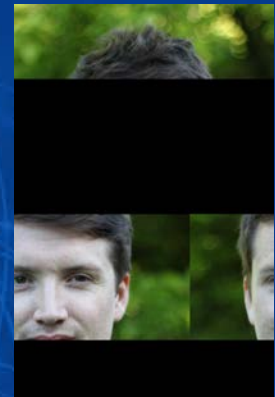


# NetFoundry

Networks are inherently insecure – IoT needs Zero-Trust



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# Networks are insecure; IoT is built around networks

How to protect systems designed to share information?

## Case Study – German Steel Mill

- Human weakness – Attacker used sophisticated social engineering and spear-phishing tactics to gain initial access to office network
- Deeper – Lateral movement to industrial control system
- Attack – Industrial control components were compromised, which prevented the blast furnace from being shut down
- Insider – Advanced technical capabilities demonstrate familiarity with IT, industrial control and production processes

> Perimeters don't work, we need zero-trust <

# How do we enable zero-trust and beyond?

Enabling layered, Secure-by-design approach for IoT

## Case Study – A global truck manufacturer

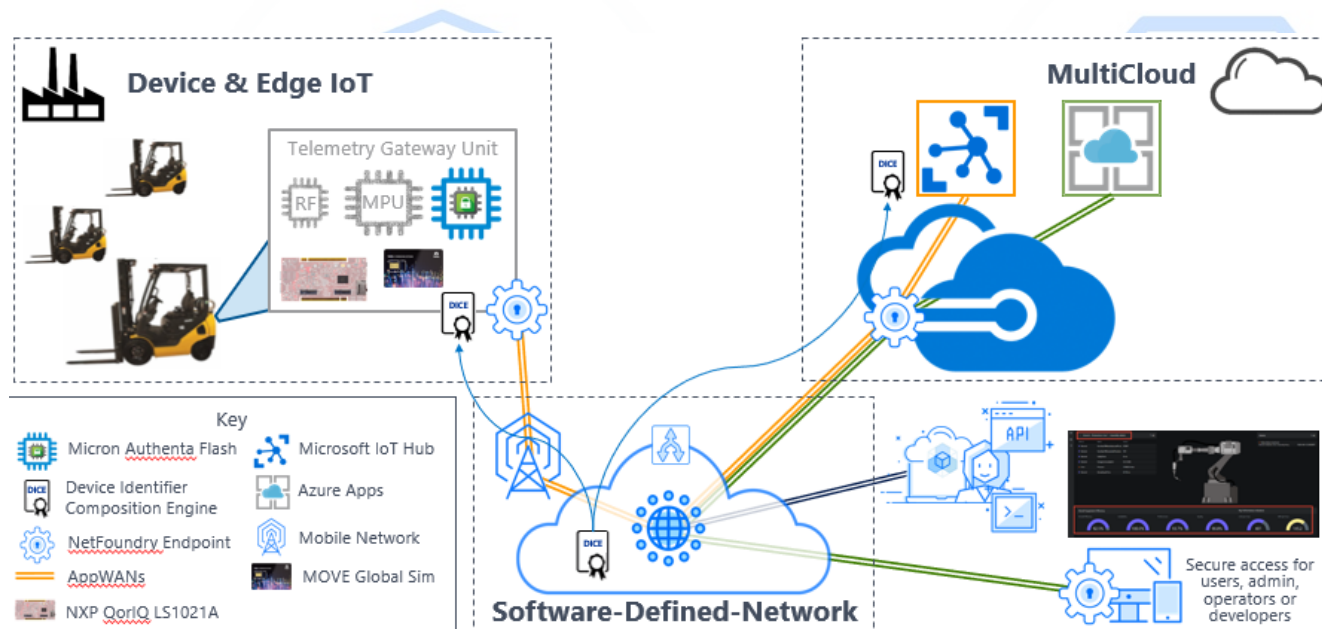
- Company deploying next-gen connected truck with cloud connectivity
- Their in-depth security analysis identified 7 threats – information disclosure (MITM), spoofing (truck, cloud, diagnostic device and GW impersonation), denial of service, and tampering (physical access)
- Our solution solved these through (1) isolation of heterogeneous environment, (2) reduced attack surface of OT and IT, (3) simple and scalable solution across tiers, technologies and lifecycles

> We can solve the security implementation challenges <

ephemerally keyed data flows

# Zero-trust from silicon-to-cloud already demonstrated

NetFoundry works with various customers and partners



## Zero-Trust solutions:

1. **IoT SWC** – Demo with Micron, Microsoft, NXP, arm and Tata Comms
2. **Partners** – Building solutions with Siemens, IMS Evolve, Dell, Integron, Klarrio, Atos, TCS, Micron, Microsoft, AWS and more

## Conclusions:

- There is no silver bullet to security
- Zero-trust within a layered, secure-by-design approach can mitigate challenges
- Ultimately this helps drive innovation as we remove challenges and blockers



## Stay Connected



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