



SECURE INDUSTRIAL VISIBILITY FOR MACHINE MANUFACTURERS

Volker Gerstenberger

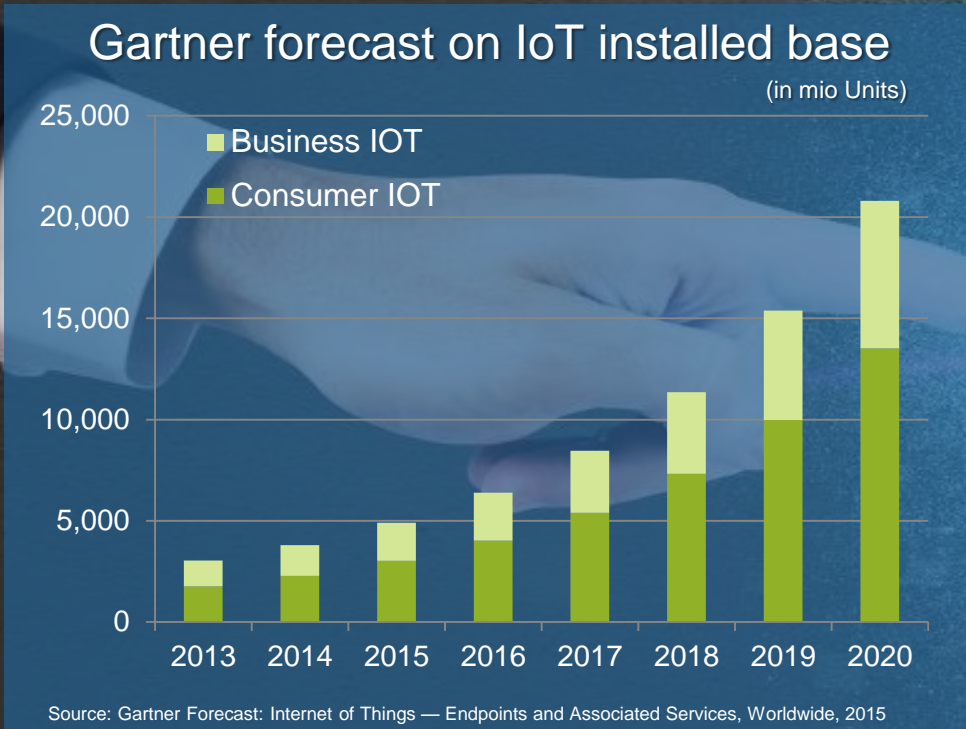
Director Product & Solution Marketing, Giesecke & Devrient

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IOT - ENDLESS OPPORTUNITIES



In a recent study of IoT devices

- 70% contained Security exposures
- 25% holes or risks of compromising the home network, on average, found for each device
- 80% did not require passwords of sufficient complexity and length
- 90% collected at least one piece of personal information
- 70% allowed an attacker to identify a valid account through account enumeration

Source: HP

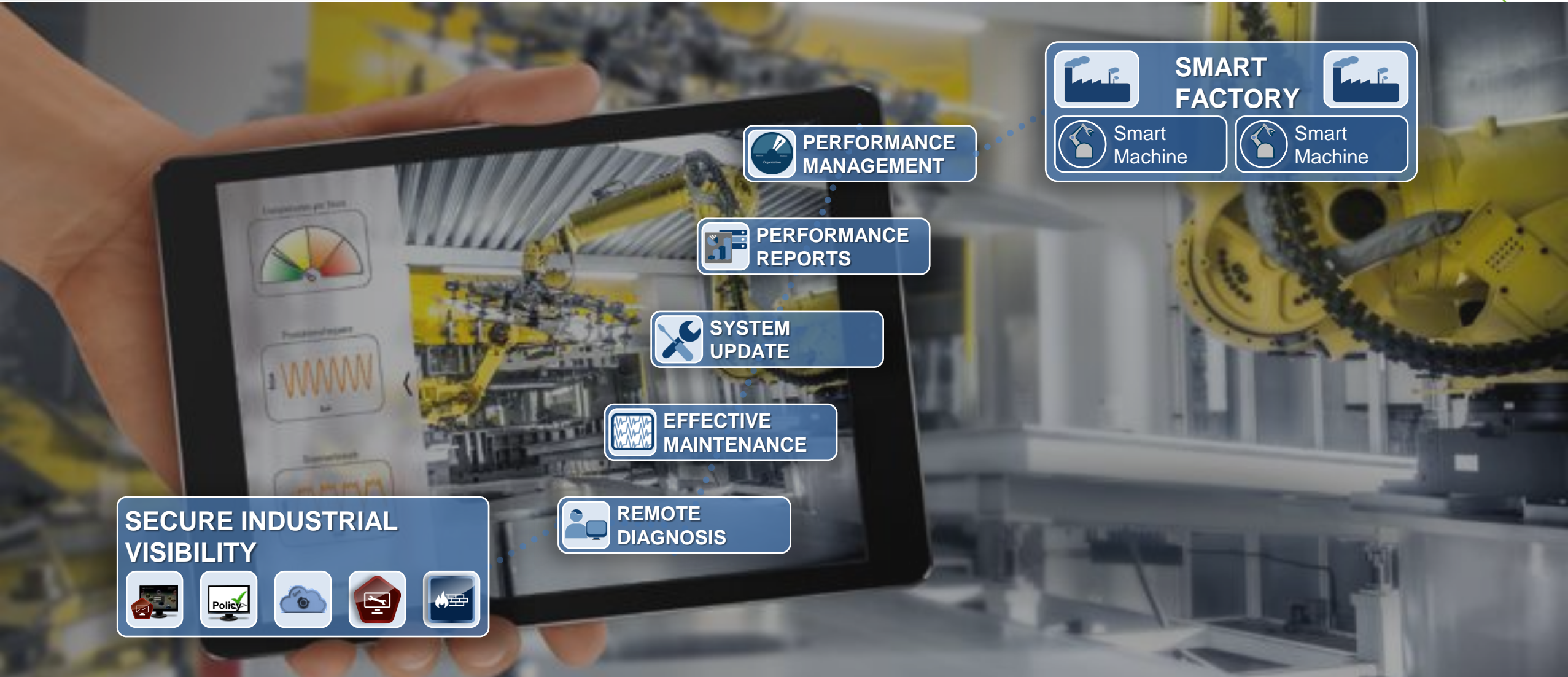
SECURITY THREATS ON INDUSTRIAL IOT



ENABLING SECURE SMART SERVICES




THE ROAD TO INDUSTRY 4.0



 **PERFORMANCE MANAGEMENT**

 **PERFORMANCE REPORTS**

 **SYSTEM UPDATE**

 **EFFECTIVE MAINTENANCE**

 **REMOTE DIAGNOSIS**

SECURE INDUSTRIAL VISIBILITY



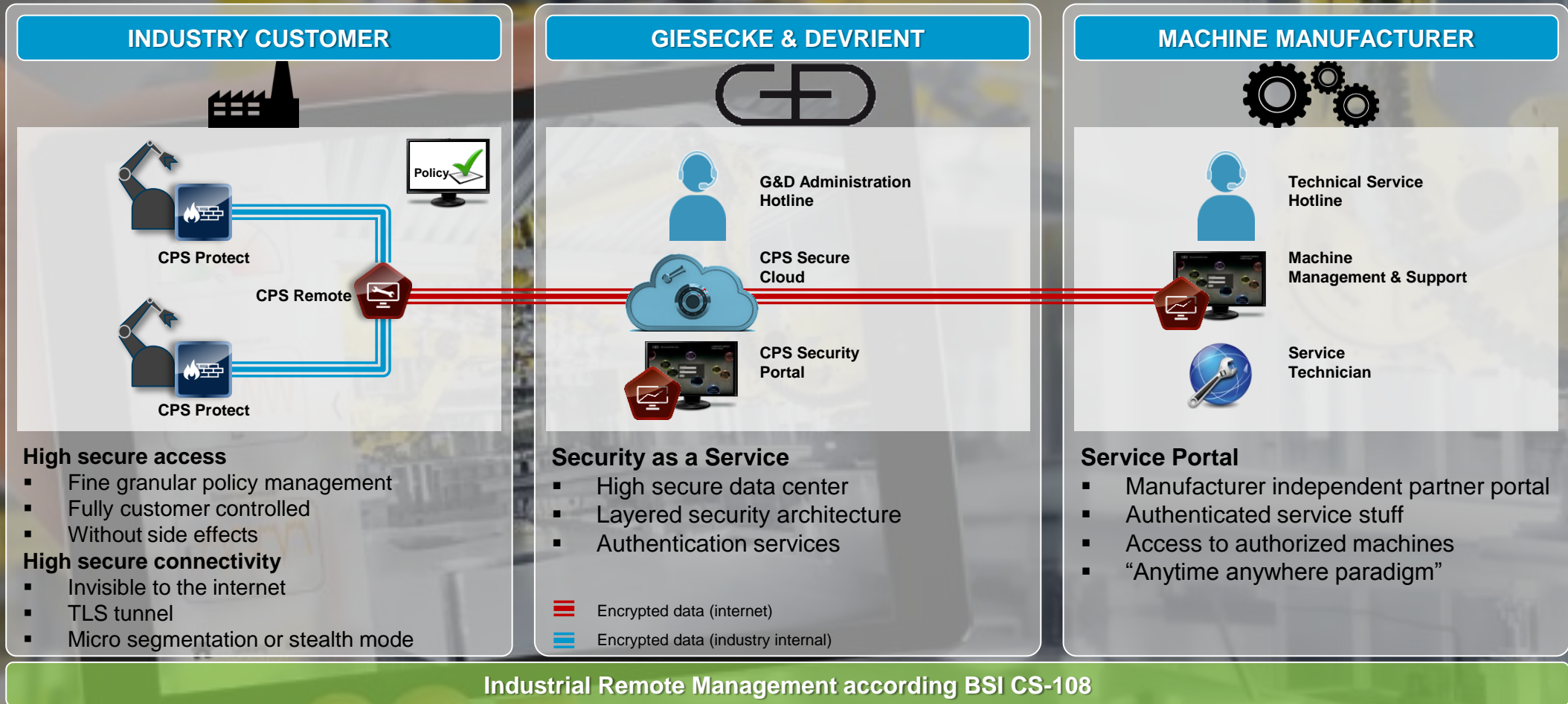
 **SMART FACTORY** 

 Smart Machine  Smart Machine

MACHINE MANUFACTURER BENEFITS



THE ROAD TO INDUSTRY 4.0



Flexible Connectivity

- M2M SIMs, eUICCs
- eSIM management
- Device configuration
- Secure personalization
- Industry grade logistics



Scalable Security

- Secure environments (i.e. Smart Cards, USB Token, SIM, eUICC, eSE, TAK)
- Secure personalization
- Remote software update and remote maintenance

The different vertical markets in the IOT require adequate and scalable security solutions to achieve necessary convenience demanded by the customer

Trusted Identity

- Secure environments (i.e. Smart Cards, USB Token, SIM, eUICC, eSE, TEE)
- Identity management for users, devices and machines
- Secure key management
- Trusted service management

For embedded systems with a requirement for high security the dedicated combination of hardware and software is essential to achieve this protection

G&D AND PTC – ENABLING SECURE IOT SERVICES



Giesecke & Devrient

- Flexible Connectivity (eSIM Management)
- Scalable Security (SW, HW)
- Secure Service Management
- Trusted Identity for IoT devices
- Firmware update over-the-air
- Secure communication channels



PTC®

- Application Development Platform (AEP)
- IoT Application Enablement & Integration
- Big Data Analytics
- Data abstraction
- Augmented Reality
- Digital Twin



KEY TAKE AWAYS



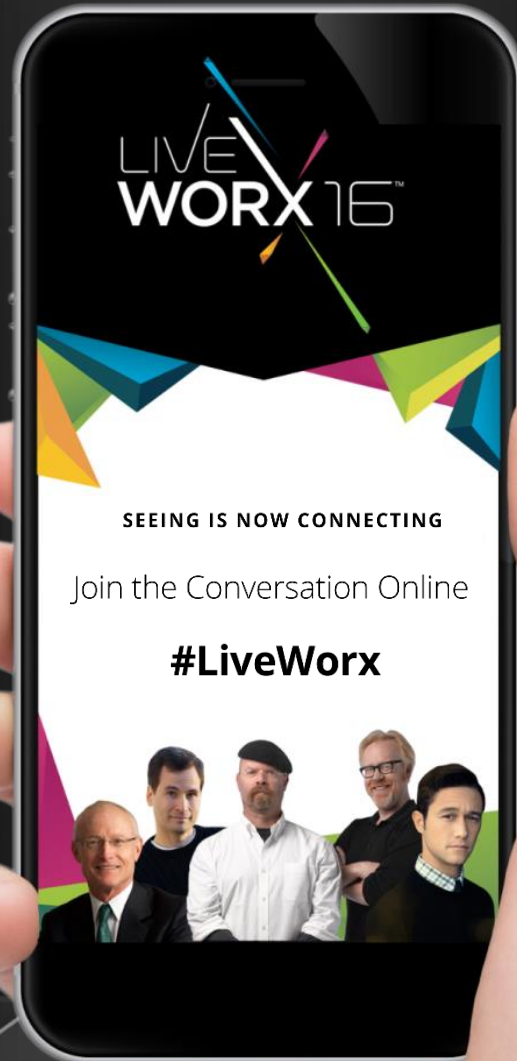
The image features several colorful geometric shapes, primarily triangles and lines, scattered across the background. A large, multi-colored triangular shape is prominent on the right side, composed of various shades of blue, green, yellow, orange, and purple. Several thin, colored lines (blue, pink, green, orange) radiate from the center of the text area. The text 'LIVE WORX 16' is the central focus, with 'LIVE' in a thin, outlined font and 'WORX 16' in a bold, solid black font. A small 'TM' trademark symbol is positioned to the upper right of the '16'.

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