

Open. Integrated. Managed.

Open & Interoperable

- Open-Source core software to reduce risk of vendor lock-in
- Open integration with applications to lower implementation costs

Integrated & Modular

- Everything needed to get data to cloud - Faster Time to Revenue
- Flexibility to manage interoperability between selected IoT stack components

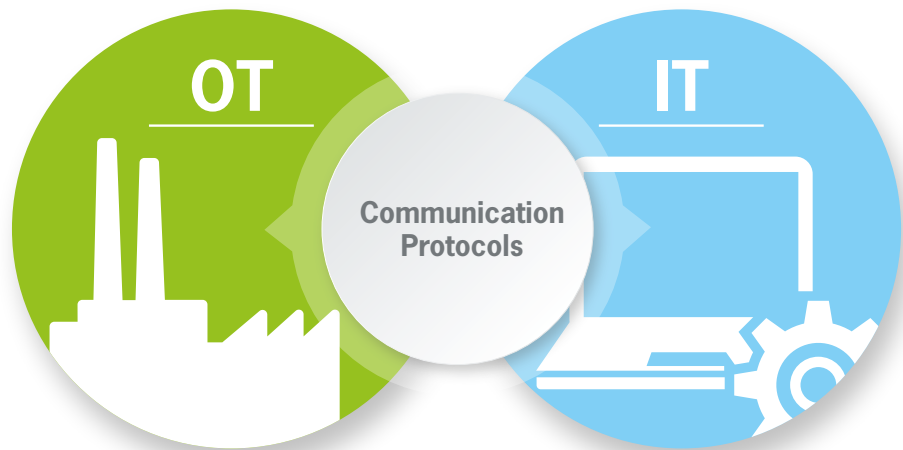
Managed & Secure

- Strong protection against unauthorized access and data snooping
- Remote software updates and batch distribution to edge devices
- Digital twins to simplify management of distributed enterprise

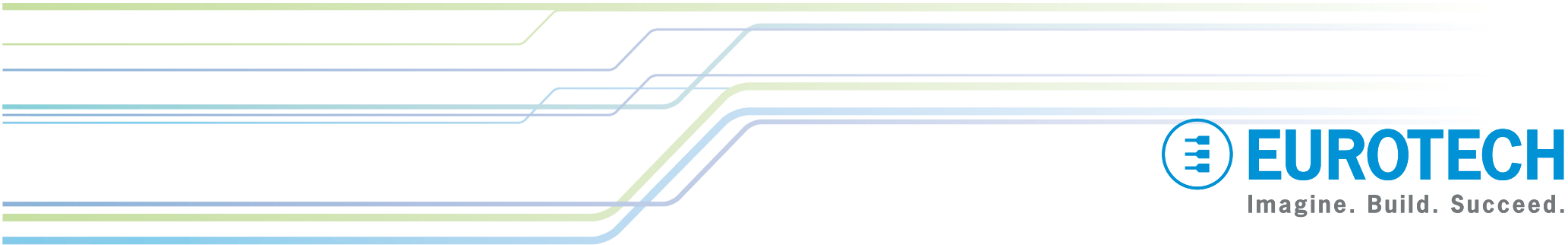
Integrating OT and IT

- Facilitating digital transformation
- Adding IoT capabilities to existing OT and IT infrastructures
- Enabling the creation of customized, changing and evolving solutions

- OT infrastructure enablement
- OT communication protocol management
- Field device management
- Edge computing enablement



- Connection to cloud services
- Easy, flexible and fast data access and management across applications
- Remote connection, configuration and management of intelligent connected devices
- IT application integration



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The Promise of Effective IoT

WHY should you choose an IoT platform?

- Reduce Operating Expenses / Improve Efficiency
- Improve customer service / Shorten response time
- Control over working assets / Know what assets need maintenance

HOW do IoT platforms help you to achieve your goals?

- An effective IoT platform:
- Let companies **see operation metrics** that are not visible today (actual cycle rates, dead time, process throughput)
 - **Optimize operations** by data-driven analytics and decision making
 - Allow **predictive maintenance** to plan service visits and minimize downtimes
 - Let companies **win new businesses** with high confidence in operations and costs

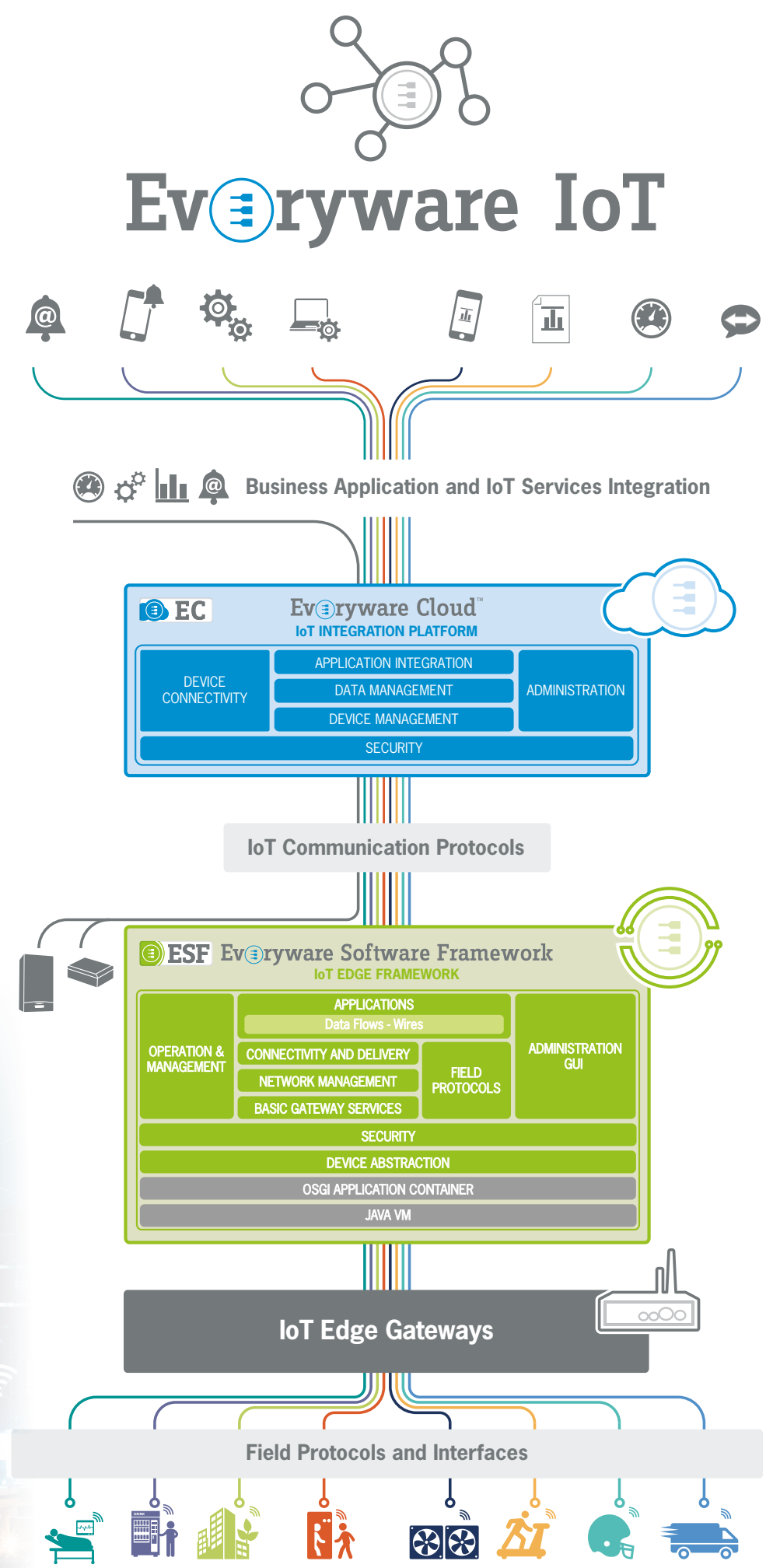
IoT Needs

- Securely connect, authenticate and manage disparate connected edge devices that speak different protocols
- Apply analytics at the edge with machine learning and business rules to enable local, low-latency decision making
- Enable integration with enterprise and business applications to bridge the gap between OT and IT and reduce complexity
- Tools to enable end-to-end data security, compliance, authorization and authentication

IoT Challenges

- **Lack of open standards** - Diverse set of technologies, features, standards, and point solutions, each of which promises to be the panacea
- **Vendor lock-in** - Avoid being locked in by a single vendor and seek modular and standard solutions
- **Fragmentation** - Must integrate operational technology with information technology to be able to derive insights at the edge and in the cloud

End-to-End IoT Architecture



Security

Cloud-level Security



- Integrated Certificate Management
- Validated Server Identity
- Tenant Isolation
- Role-based Access Control
- 2-factor Authentication

Secure IoT Communication Protocols

- SSL/TLS Encryption w/Hostname Verification*
- Mutual Authentication
- Digitally Signed Messages

Device-level Security

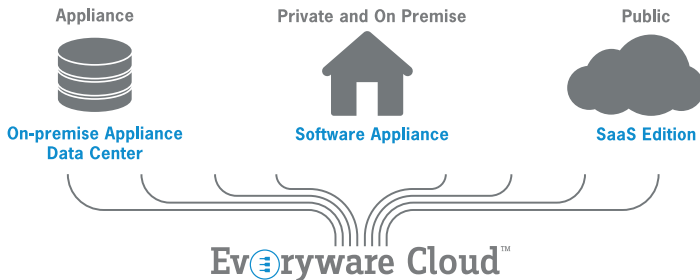


- Unique Device Identity and Credentials
- Signed ESF/Application Code
- Encrypted Configuration and Storage



Ev@ryware Cloud™

- Secure device connectivity and data communication
- Remotely manage large IoT deployments
- Integrate data and applications

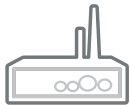
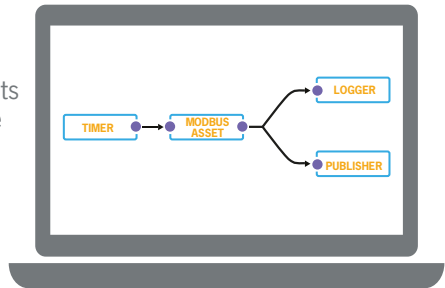


Ev@ryware Software Framework

- Develop and deploy IoT edge computing applications
- Easily connect to industrial devices and IoT cloud services
- Visually compose data flows to manage, analyze and route data

WIRES function

Visually wire edge components with drag-and-drop for simple and code-free IoT app development



IoT Edge Gateways

- Proven building blocks for IoT applications
- Certified for global deployments
- Rugged design for embedded applications