

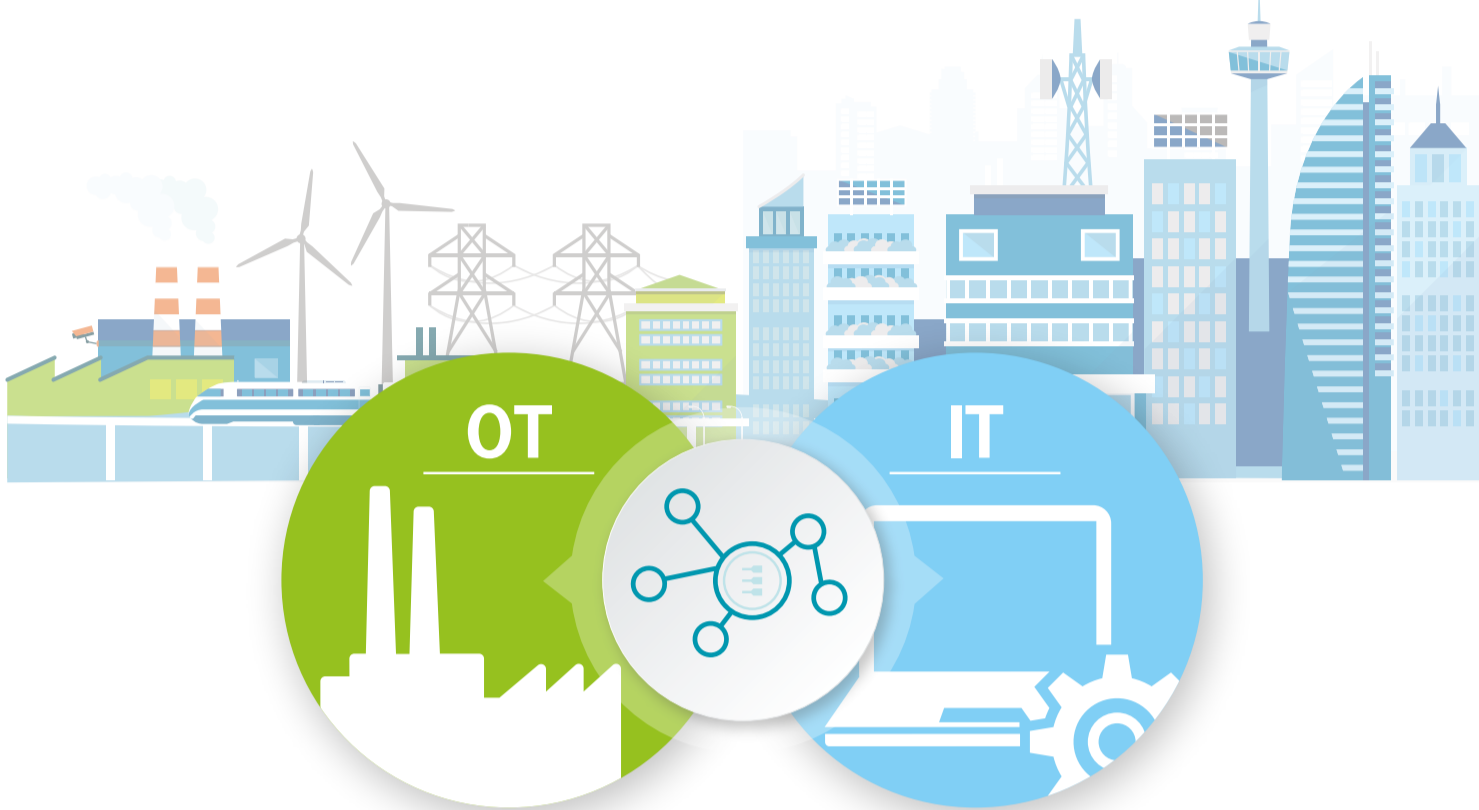
EUROTECH

Everyware IoT

OPEN. INTEGRATED. MANAGED.

OT-IT Integration

Everyware IoT enables enterprise-class digital transformation at the edge of the network. It seamlessly integrates Operational Technology (OT) with Information Technology (IT), bridging the interoperability of an organization's IT infrastructure with remotely located IoT assets. The powerful and flexible Everyware IoT platform enables edge devices and systems to be easily deployed, managed and maintained from virtually anywhere.



End-to-end IoT Security

Cloud Security

- Validated platform identity
- Tenant isolation
- Role-based access control
- 2-factor authentication
- Integrated certificate management

Secure Communication

- SSL/TLS Encryption w/hostname verification
- Mutual authentication
- Digitally signed messages

Edge Security

- Unique device identity and credentials
- Signed ESF/application code
- Encrypted configuration and storage
- Secure OTA update
- Secure boot

Security Services

- Support and maintenance plans for long-life management
- Periodic code scans to detect new common vulnerabilities and exploitations
- Emergency patches to address critical functional or security issues

INDUSTRIAL AND AUTOMATION

INDUSTRY 4.0
INDUSTRIAL AUTOMATION AND SUPPLY CHAIN MANAGEMENT
REAL-TIME EQUIPMENT MONITORING AND DIAGNOSTICS

TRANSPORTATION AND MOBILITY

ROLLING STOCK AND RAILWAY MANAGEMENT
PUBLIC TRANSPORT
INTELLIGENT MOBILITY
FLEET MANAGEMENT

ENERGY AND UTILITIES

SMART GRID AND POWER DISTRIBUTIONS
ENERGY MANAGEMENT
INTELLIGENT BUILDINGS

MEDICAL AND HEALTHCARE

REMOTE DEVICE MANAGEMENT
DATA ANALYSIS AND MONITORING
CONNECTED HEALTHCARE

IT Application Integration

IoT Integration Platform



Everyware Cloud™

IoT Communication Protocols End-to-end Security

Secure 2-way communication: use standard MQTT (Message Queuing Telemetry Transport) protocol to securely connect and manage IoT devices in the field



IoT Edge Framework



Everyware Software Framework

Multi-service IoT Edge Gateway

OT / Field Protocols and Interfaces

Provide connectivity between local devices & sensors and the Multi-service IoT Edge Gateway. Typical examples are Zigbee / 802.14, Serial, Bluetooth, Ethernet, WiFi, RFID, but also Field Bus technology.

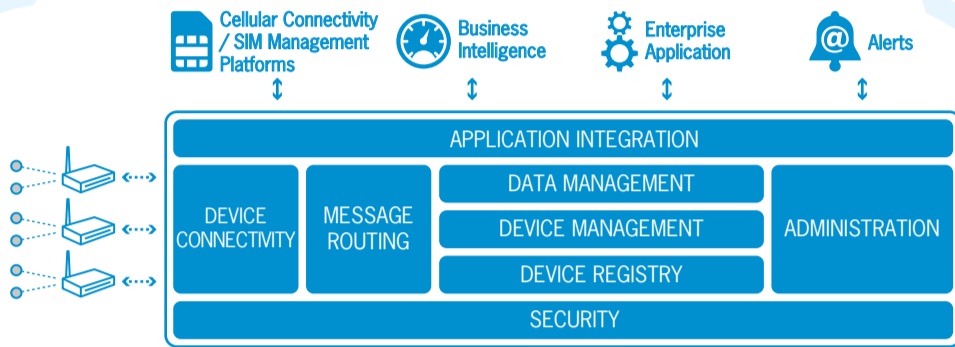
Modbus, OPC-UA, S7, FANUC, CAN bus, SAE J1939, MVB, LoRa



Built-in Security

Robust security is the foundation of an effective industrial IoT Architecture

Everyware Cloud™ FUNCTIONAL OVERVIEW



Everyware Cloud™

IoT INTEGRATION PLATFORM

Everyware Cloud (EC) is the premier industrial IoT Integration Platform for deployment of critical applications at the edge. It combines data integration services with all the functionality required for the management of IoT gateways and devices in the field, including configuration management, digital twins, application life-cycle management and remote access.

DEVICE MANAGEMENT

Everyware IoT leverages MQTT to enable complete management of edge devices. Implementation of functionality such as real-time status monitoring, remote access and configuration, data ingestion, and support for digital twins is made simple with Everyware IoT.

DEPLOYMENT OPTIONS

On-Premise, Private or Public Cloud

Everyware Cloud is designed around a set of Docker microservices that can be easily deployed and managed with Kubernetes orchestrator for powerful implementation of private cloud, public cloud, and on-premise solutions alike.

Connectivity Management Platforms (CMP)

Off-the-shelf Integration with the SIM Management platforms of most major carriers.



Open Source

Everyware Cloud is based on the Eclipse Kapua open source project.



Eurotech is the original contributor of Eclipse Kapua with the first code drop donated to Eclipse in 2016.

Everyware Software Framework

IoT EDGE FRAMEWORK

Everyware Software Framework (ESF) is a robust and flexible application development environment for Edge Computers and IoT Gateways. ESF offers ready-to-use field protocol libraries to simplify edge to cloud connectivity of devices in the field. Field data can be processed at the edge through rich Java APIs or a web-based visual programming environment.

DEPLOYMENT OPTIONS

ESF comes pre-installed on Eurotech hardware. It can also be ported to third-party hardware or deployed as a microservice on Edge Servers.

Cloud Connectors



Open Source

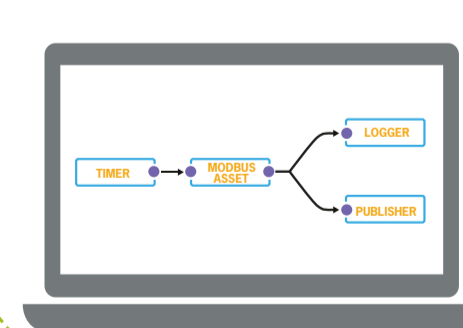
ESF is based on the Eclipse Kura open source project.



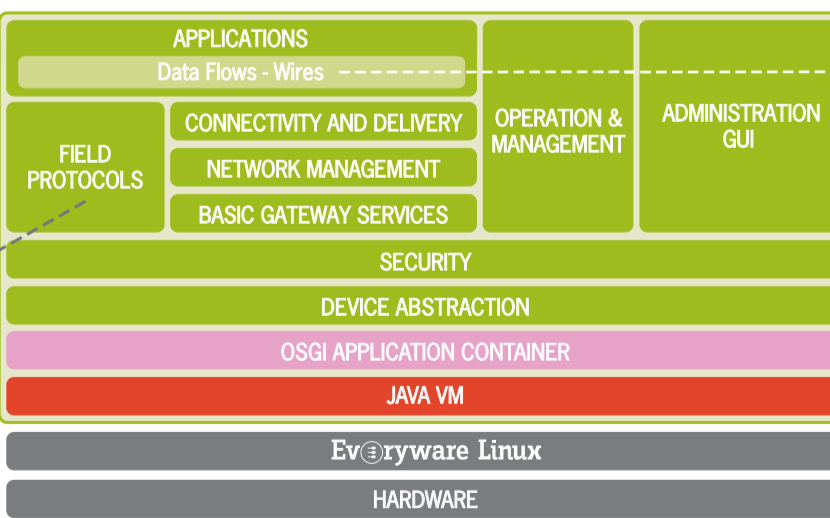
Eurotech is the original contributor of Eclipse Kura, with the first code drop donated to Eclipse in 2014.

WIRES

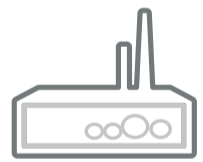
Visually wire edge components with drag-and-drop for simple and code-free IoT app development



Everyware Software Framework FUNCTIONAL OVERVIEW



The Eclipse Marketplace features an IoT section dedicated to Eclipse Kura and ESF. Browse the marketplace for additional protocol Drivers, Wires Components, or application bundles that you can install in your ESF-powered gateway with a simple drag and drop.



Multi-service IoT Edge Gateways

Eurotech's Multi-service IoT Edge Gateways are edge computing devices that offer a wide range of performance, networking and ruggedization options designed for today's demanding industrial IoT applications. Eurotech Multi-service IoT Edge Gateways are available with industry-specific certifications to meet the needs of various industry verticals including Automotive, Military/Aerospace and Railway applications. They feature global cellular connectivity certification.



ReliaCELL Cellular Connectivity Global Certifications

The rugged ReliaCELL cellular modem eliminates many of the challenges associated with global cellular deployments. It comes ready to deploy with a wide variety of carrier and global certifications already in place. This simplifies the design process and reduces costs, while also accelerating time-to-market.

Verizon, Sprint, AT&T, T-Mobile, Bell, Rogers



Everyware Linux

Everyware Linux is a Yocto-based Linux distribution optimized for Eurotech Multi-service IoT Gateways. It provides drivers for all the gateway I/O interfaces and a complete application development SDK. Everyware Linux focuses on secure deployment optionally providing secure boot, platform hardening and custom image services. Support and maintenance services are also offered for periodical vulnerability scans and distribution of emergency patches.