

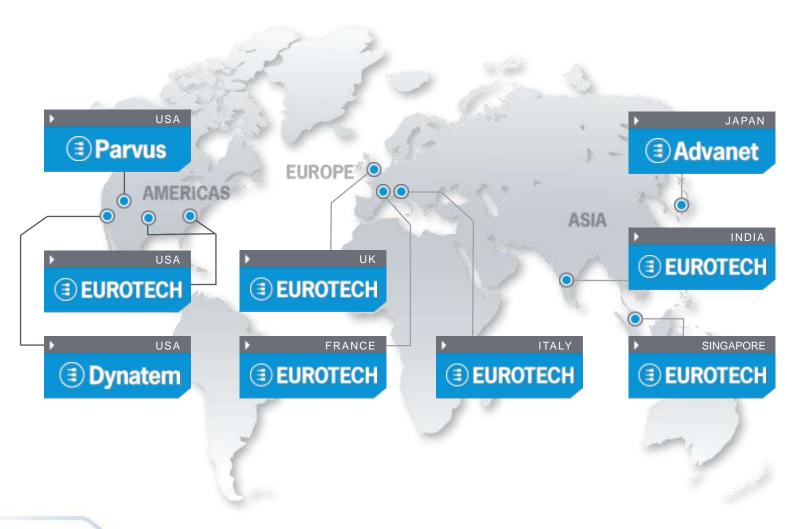
The Basic Architecture of successful M2M Solutions

Field-to-Cloud Technology Building Blocks for Internet of Things Applications

Eurotech's Essence

- Behind the products of more than 20 Global 500
- World top 10 player in the Embedded Computers market
- One of two European producers of High Performance Computers
- Public Company, in the STAR segment of Borsa Italiana
- Core competences: Miniaturization & Interconnection of computing devices
- 2 Strategic Business Units:
 - NanoPC SBU: Pervasive Computing Devices & Device Data Management
 - HPC SBU: Green Petascale High Performance Computers

Group Global Footprint





Boards & Modules



Boards & Modules



Devices & Systems



Value Add Software & Services





OpenVPX & VME



CompactPCI & CompactPCI Express



PC/104+



EPIC & EBX

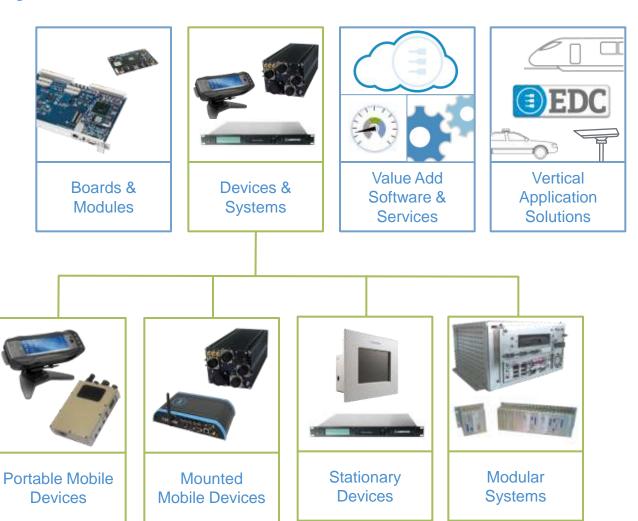


COM Express & Small Form Factors

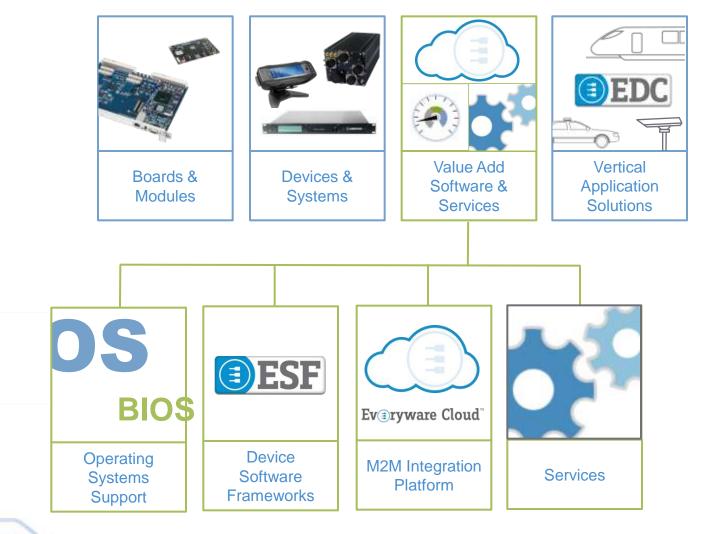


Catalyst & Other Form Factors

Devices & Systems



Value Add Software & Services



Integrated Vertical Solutions



Boards & Modules



Devices & Systems



Value Add Software & Services





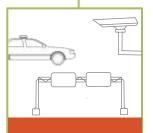
Industrial & Commercial



Logistics & Networking



Medical & Healthcare



Security & Surveillance



Defence & Aerospace



Transportation & Mobility

Sometimes M2M Solutions look simple ...

A single application to communicate with

No connectivity options required

Single or no special application on gateway

> Only one type of Gateway HW & SW

> > Only one type of device / sensor



Internet / TCP/IP

Business Application

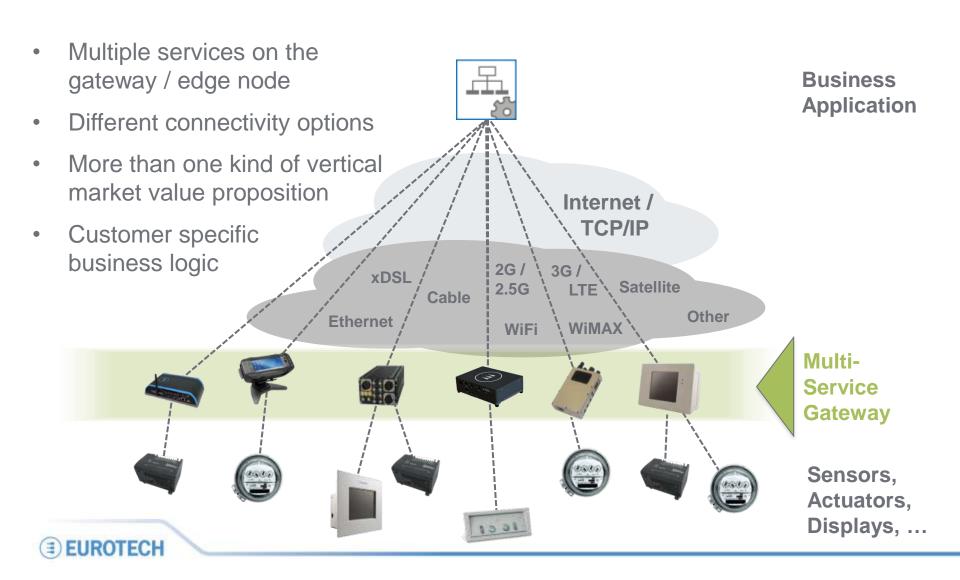
Service Gateway

Sensors, Actuators. Displays, ...

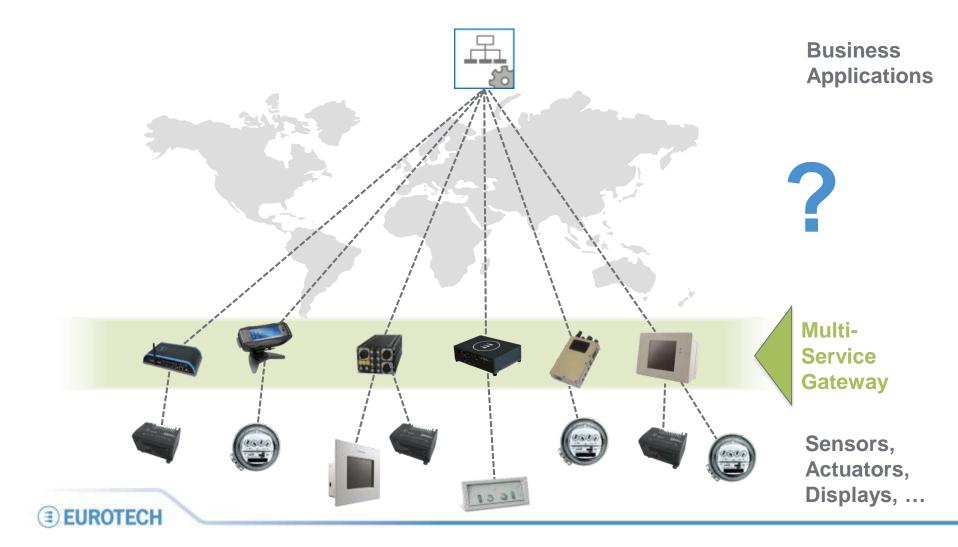




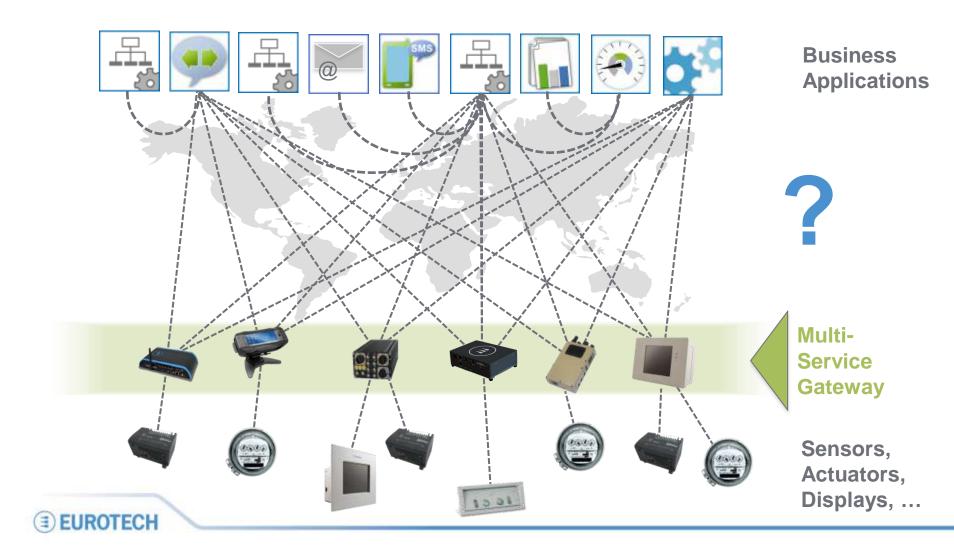
.. but for many Customers Solutions are more Complex



... Geographically Dispersed ...



... and with more than one Consumer of the Device Data



The Internet of Things

Eurotech Offer

Consumers of Data

APIs, Dashboards, Console, etc.

M2M Infrastructure Solution

Technology Building Block

M2M Integration Platform

Multi-Service Gateways

Standard Interfaces

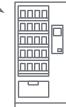
Producers of Data







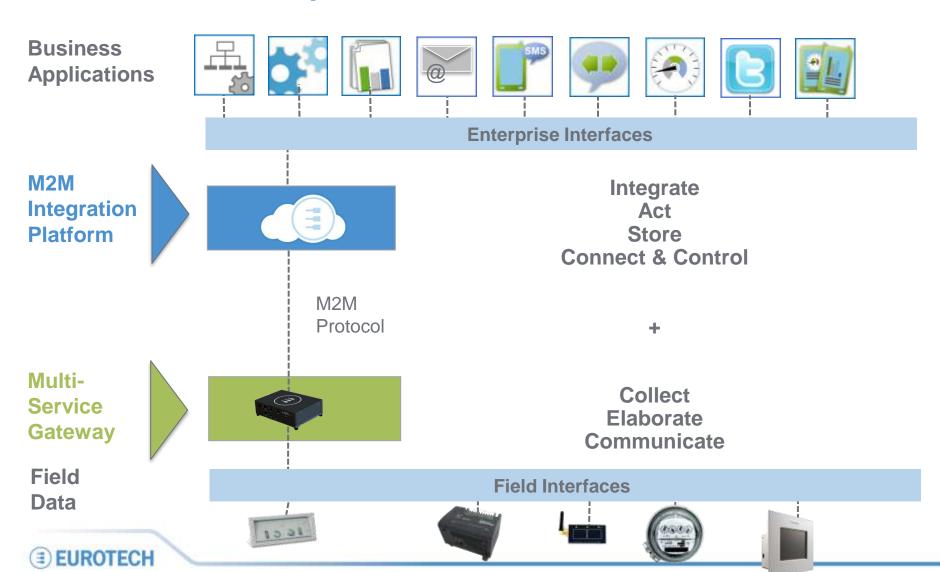






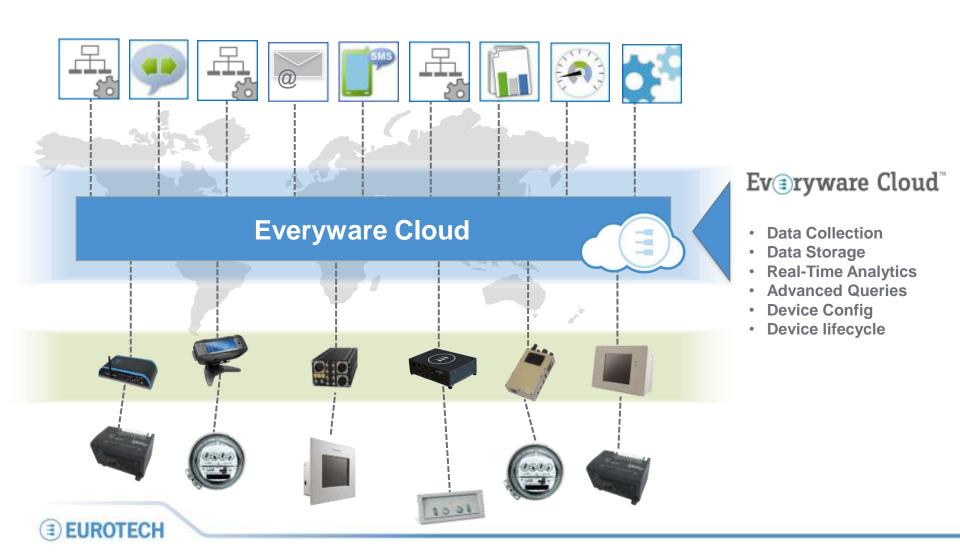
Connecting the field at the Enterprise

Architectural Components



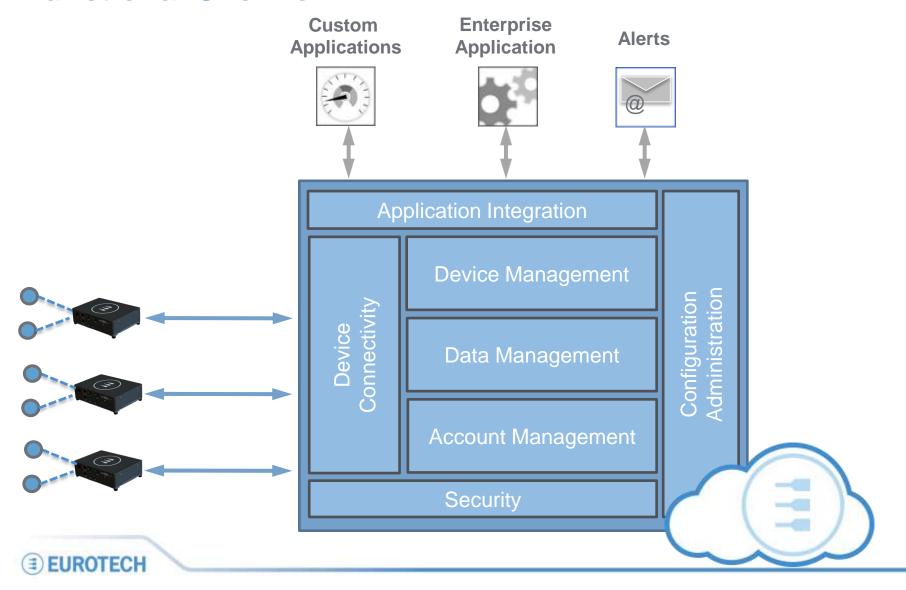
M2M Integration Platform

We need an "ESB for Machines", Cloud Platform Approach



Everyware Cloud

Functional Overview



Everyware CloudKey Features

- M2M Optimized Integration platform designed from ground up to connect M2M devices to Enterprise applications.
- Connect & Manage Any type of device can be securely connected and managed using an open protocol.
- Independency Fully decouples data producers from data consumers through a flexible semantic data model.
- Secure All transactions are secure.
- Real-Time Analytics Sophisticated statistical rules engine to enable real-time data pattern recognition and action triggering.
- Advanced Data Services Schema-less, distributed, decentralized database for data aggregation and advanced queries.
- Rich APIs REST APIs, including PUSH, and integrated visualization.
- Administration Web Based Console for device, data and user management.



Everyware Cloud

Benefits

- A complete device specific message oriented infrastructure that allows customers to easily and quickly build reliable, deviceindependent M2M applications.
- Seamlessly aggregates the best software technologies into an always-on platform for data collection, management, analysis and integration used in M2M and Enterprise applications.
- Deploys the underlying technology layer required to easily build M2M applications and to ease data integration into Enterprise Applications.
- Available as pay-as-you-go service, with no initial investment.



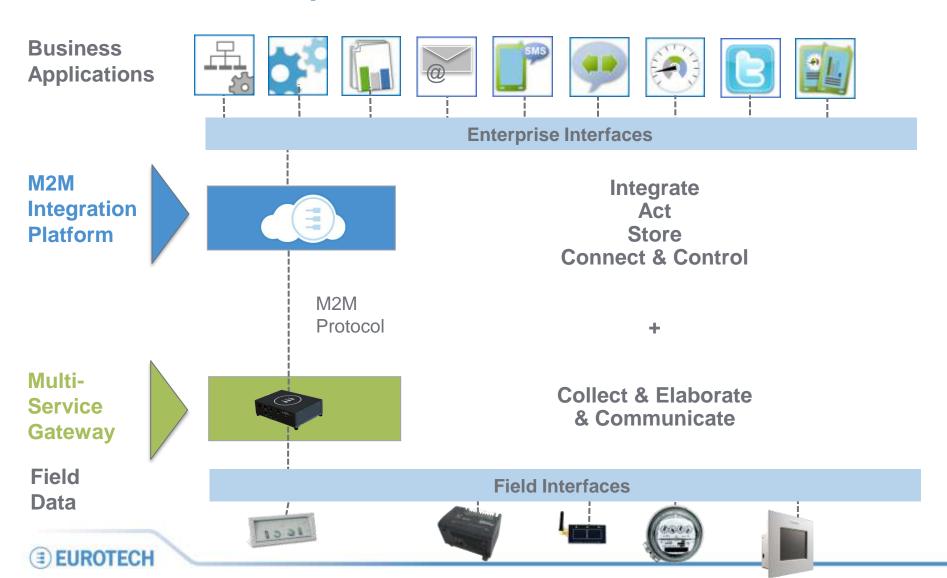
Everyware Cloud Business Model

- Free developement Up to 5 devices
- Pay as you go business model Customers pay only for the devices connected and data stored
- Royalty free client/agent

 Java, C++ client s available in source code

Connecting the field at the Enterprise

Architectural Components



Everyware Software Framework

Overview



Everyware Software Framework (ESF) is a Java based application framework that simplifies application development for smart M2M Multi-Service Gateways.

Key Features:

- Field Data Acquisition Protocols
- Optimum M2M Connectivity Protocol (MQTT based)
- Full Java HW Abstraction
- Device/App Management
- Complete Development Tools

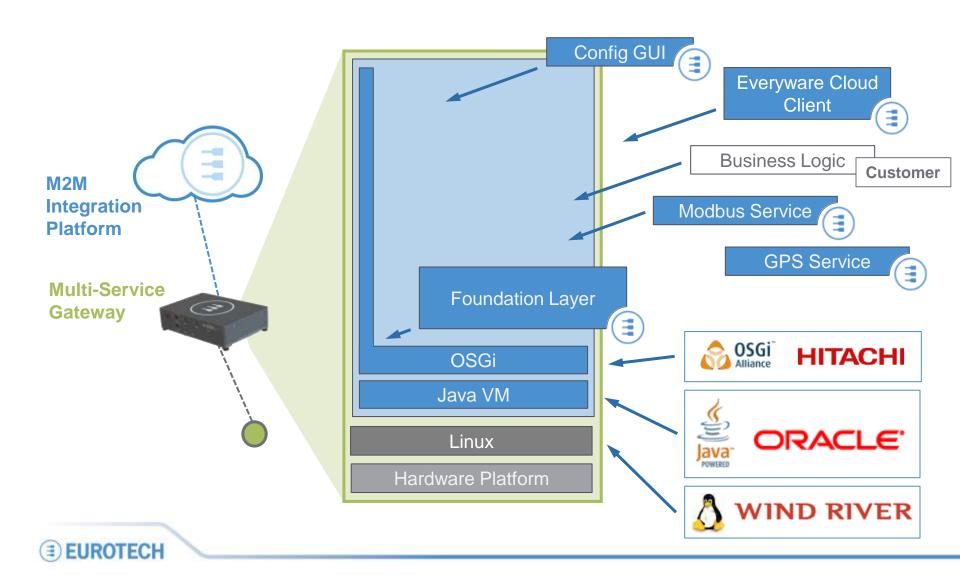
Key Benefits:

- App Development Simplification
- Fast Time-To-Market,
- Reduced Risk
- Minimized Effort



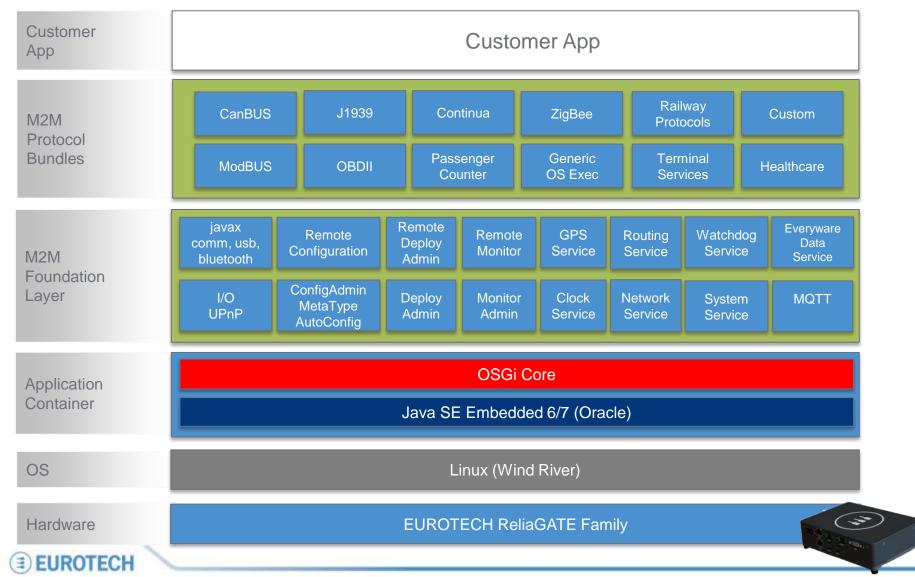
Everyware Software Framework

Components



Everyware Software Framework (ESF)

ESF 2.0 Architecture Overview



Everyware Software FrameworkWhat ESF offers ...

Field Data Capturing – Features proven protocols components for data acquisition from in-field devices.

Application Development – Quickly develop hardware abstracted and flexible embedded applications.

100% Java – Consistent Java-based abstraction APIs over I/O, network, serial, GPS, Cellular and specific hardware components.

Cloud Ready – Built-in cloud connectivity for M2M applications with advanced data and device management services.

Modular – Java/OSGi-based M2M application development platform.

Tools – Advanced development tools based on the industry standard Eclipse platform

Device Indipendent – ESF runs across device platforms resulting in portable applications and easy to re-use code



Everyware Device Cloud

ESF

Hardware Portability

Portability across ESF Enabled

Platforms





Catalyst EC / Catalyst FX



Catalyst TC / Catalyst LP Catalyst Module XL



PROTEUS COM Express



ISIS PC/104 Module
ISIS XL PC/104 Module



Zypad BR2000 Man-worn Computer

Ready To Use Devices



Dyna-VIS Rugged Panel PC & Vehicle Console

DuraCOR DC 1400 / DC 1200 Rugged Mobile Computer



ReliaGate 50-21



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Multi-Service Gateways

Standard Interfaces

Producers of Data













EUROTECH

Partner Ecosystem

Technology and business



























Thank You!

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