Eurotech - A strong and reliable Partner in IoT/M2M/OT Projects

Experience & Capabilities
- More than 20 Years experience in OT / M2M / IoT
- Modular yet integrated offering
- Hardware, software, infrastructure, services
- Global footprint
- Strong partner network & ecosystem

Available here and now

Service and Support from Eurotech
- Global service & support infrastructure
- Supplementing (partners and customers) capabilities
- Planning, Design and Project Management
- Multi-level, scalable offering
- Consulting services – many Years of M2M / IoT experience

IoT Architecture and Building Blocks Checklist
If, as part of your M2M / IIoT / IoT solution you require one or more of the following requirements to be met...

- **Agility** Enabling real-time business decisions – real-time aggregated data for applications, historical data, fast write speeds, CEP front end
- **Value-driven** Preserving and extending value props – no “business normalization” but encapsulating complexity, allowing to focus on core...
- **Openness** Open & Industry Standards based in technology, architecture, ecosystem and attitude, IT-centric by design, no vendor lock-in by proprietary in approach and technology
- **Flexibility** Supporting diversity – down to the edge – HW, SW, type of applications, business models
- **Versatility** “No-Silo-Approach” – readiness for current and future requirements – ESB for machines concept – integration of field and IT applications without creating dependencies – different from “classic telemetry”
- **TCO-focused** Including development, deployment, management, infrastructure, communication, investment protection, future-proving, certifications
- **Security** Complete approach in architecture and elements
- **Validation** Continuous testing, validation, feedback and improvement ensured, strong ecosystem
- **Scalability** Not just scale up but “out”, volume and diversity
- **Completeness** End-to-End complete OT stack, IT/OT integration, security, flexibility and efficiency requires holistic approach, operating system for the IoT / IoT

...talk to Us!

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IoT Software Solutions

Winning Architecture & Building Blocks for the Internet of Things

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IoT Architectures have to be Flexible, End-to-End and Open

Good IoT / OT architectures are all about encapsulating the complexity of M2M / IoT distributed systems to:

- Reduce development time and risk
- Ensure optimum investment protection
- Avoid creating dependencies between the Things in the field and the applications
- Leverage world-class, proven and standards-based architectures, protocols and technologies
- Dramatically reduce the TCO (Total Cost of Ownership) of distributed device infrastructures
- Rapidly implement innovative, new business models and processes

And:
Preserve and extend the customers value proposition by leveraging computational power also at the edge of the IoT infrastructure for data management, analytics and applications. It is essential that the software architecture also at a remote device or asset level provides flexibility and agility to design and manage the embedded applications as required.

Good IoT/M2M Architectures
Scalable, Flexible, Open, End-to-End

**IoT / M2M Building Blocks and Features in Detail**

**World of Mobile and Business Applications**

**Everyware IoT Integration Platform**
- Designed and optimized to connect distributed assets to Enterprise applications
- Encapsulates and abstracts the specifics and complexities of OT solutions
- Provides Data & Device & Embedded Application Management
- Any type of device can be securely connected and managed
- Open and Industry standards-based
- Fully decouples data producers from data consumers
- Enterprise application integration (REST APIs, Websockets, MQTT, AMQP,...)
- Adapters for IoT Analytics, BI and Enterprise IT/OT Integration
- Advanced data services, including a schemaless, distributed, decentralized DB
- Access to aggregated real-time data and historical data
- Data export & access in many formats
- Real-time analytics & rules engine (for real-time data pattern recognition and action triggering)
- High level of security and health check monitoring built-in
- Web Based Administration Console

**Communication Infrastructure & Optimum M2M / IoT Protocols**
- Support for optimum IoT / M2M protocols (MQTT, CoAP, …)
- Integrated SIM Management Platforms of mobile carriers & MNO’s
- Support for out-of-band communication / SMS
- Secure managed VPN Tunnels

**Everyware Cloud Client**
- Secure MQTT + data model device cloud client implementation
- Leverage Everyware Cloud data management and device management features
- Easily portable to many platforms and most operating systems
- Very light resource footprint – scales to classic telemetry applications
- Integrated and extended in ESF (Everyware Software Framework)

**Everyware Software Framework (ESF)**
- Java/OSGi-based Application Framework for IoT Gateways and Edge Nodes
- Simplifies the design, deployment and remote management
- Commercial, enterprise-ready edition of Eclipse Kura, the open source middleware for IoT gateways
- Secure, cohesive and integrated embedded application environment
- Remote & local embedded application and device management
- Modular software components & development tools
- Device abstraction in Java
- “One configuration” approach for device HW, OS & networking functions and
  implementation
- Device cloud client
- Adapters for IoT Analytics, BI and Enterprise IT/OT Integration
- Fully standards-based
- Provides aggregated real-time data
- Security and abstracts the specifics and complexities of OT solutions
- Provides full integration with Everyware™ Cloud
- ESF adds advanced security, diagnostics, provisioning, remote access / VPN

**IoT Hardware: Eurotech, 3rd Party, Open Hardware**
- IoT Gateways, CPU Boards and SBCs
- General purpose or purpose built of the shelf devices for different verticals
- Custom solutions