


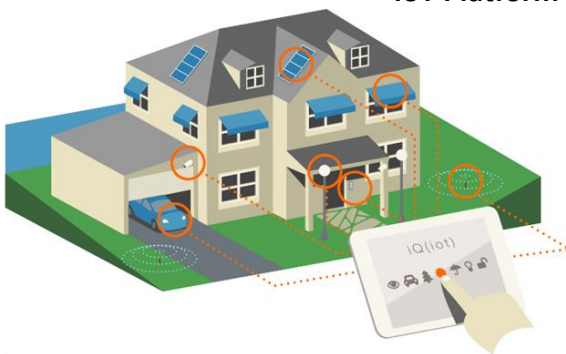


IQUADRAT

IQUADRAT R&D has a focused business plan specifically intended on delivering a “new generation of research tools for system level evaluation of wireless integrated communication systems”. The company is involved in projects with large corporate clients, mobile operators and public authorities and is currently active in three different domains: Software development, consultancy primarily in wireless network planning, and R&D for developing new and innovative products. Our R&D department is involved in many National and EU-funded research projects, and has extensive know-how in Network Function Virtualization (NFV) technologies, Zero-touch automation at the network layer using state-of-the-art machine learning algorithms for network status prediction, IoT Networking, simulation methodologies for Radio Access Networks, Software Defined Networking (SDN) and Demand Response algorithms for the Smart Grid.

IQUADRAT's solutions

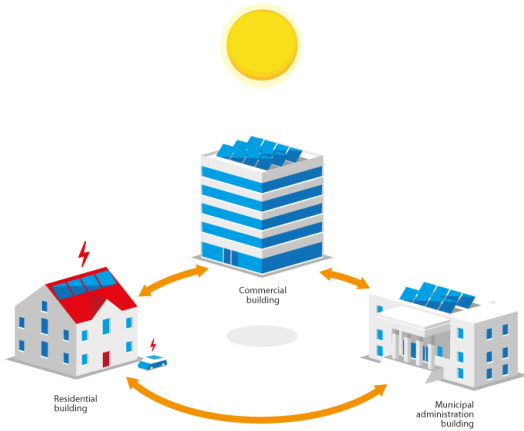
IoT Platform for Smart Home



Key features

- ✓ Interactive Mobile and Web applications
- ✓ Widgets for sensor value display and actuator control
- ✓ Bindings for commercial IoT devices
- ✓ Customizable Sensor Nodes in wall-mounted and portable layouts
- ✓ Automation & Energy management functionalities

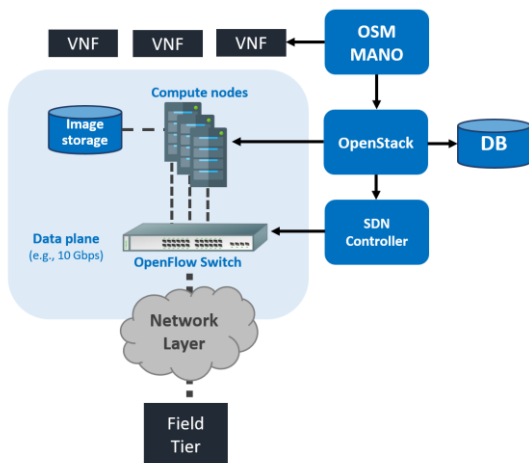
IoT Platform for Smart Energy Management



Key features

- ✓ Peak demand calculation and daily consumption pattern
- ✓ Scheduling for peak demand reduction
- ✓ Management of excess energy from photovoltaic cells
- ✓ Electric Vehicle Charging Management

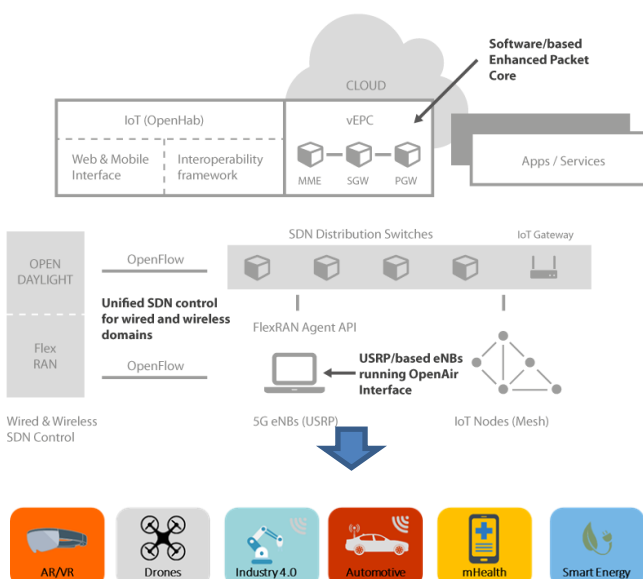
Industrial IoT (IIoT) platform for Industrial Applications



Key features

- ✓ Openstack-based private cloud
- ✓ Use of SDN and NFV for network & infrastructure virtualization
- ✓ Virtualized IIoT gateway
- ✓ Management and Orchestration through ETSI-compliant OSM
- ✓ Machine learning algorithms for rapid and reliable anomaly detection

5G communications platform



Key features

- ✓ 5G access (New Radio) and Core modules
- ✓ Use of SDN and NFV for network & infrastructure virtualization
- ✓ Flexible orchestration for network slicing and on-demand resource allocation
- ✓ Mobile edge cloud (MEC) capabilities and live migration
- ✓ Machine learning for Key Performance Indicators (KPI) prediction