EC-IoT
Accelerating Digital Transformation of Industries
Predictive Maintenance by Elevators Connection, Enable Service-Oriented Transformation

Manufacturers Extend Value Chain Through Elevators Connection Solution

Now

Future

Traditional

Elevators Connection Solution

Product

Maintenance Service

Manufacturer

3rd-party Maintenance

Property Company

Product

3rd-party Maintenance

Manufacturer

Property Company

Accessories $4.94M

Maintenance $7.54

Elevator manufacturer in China: 10,000 elevators

Optimized R&D, Lower Costs: 5%-10%

Maintenance Efficiency: 30 Elevators Per Person -> 60 Elevators Per Person

Lifetime of Wearing Parts 6 -> 8-10 Months

Cost Reduction 45% ↓ + Ad Revenue

TOP10 Elevators Manufacturers

Shares: 90%

14M Elevators

Addressable Market in 2020

Costs:

Traditional

Elevators Connection Solution

Elevator manufacturer in China: 10,000 elevators

Enterprise.huawei.com • Huawei Confidential • 2
**EC-IoT: Edge Computing Enables Predictive Maintenance**

**Benefits for Enterprises**

- **Predictive Maintenance, Higher Accuracy**
  - Maintenance Costs: 50%

- **Optimized Design, Improved Quality**
  - Defect Rate: 40%

- **Big Data Analytics + Real-Time Monitoring**

- **Reliable Operations**
  - Service Interruption Time: 90%

**Key Feature**

- **Open APIs to Build Industry Ecosystems**

- **Industrial-grade IoT Gateway, Flexible Industry Adaptation**

- **Cloud Managed for Tens of Millions of Terminals**

**Cloud Managed**

- **Open API**

- **Big Data**

- **IoT Platform**

- **Agile CONTROLLER**

**Connection**

- **Edge Computing**

- **Communication Module**

- **Sensors & Terminals**

- **Machine Tool**

- **Engineering Machine**

- **Industry Washer**

- **Real-Time:** < 10 ms
  - **Smart:** Local Pre-analysis
  - **Data Aggregation:** Local Filtering of Invalid Info
EC-IoT Portfolio

EC-IoT Solution

Industrial apps

Open APIs

IoT gateway

EC-IoT Product Family

Agile CONTROLLER

Richest Array of IoT Gateway

Power IoT

AR530/AR501C/AR501X

Industrial IoT

AR502G/AR509/AR550/AR5250/AR1500

City IoT

AR501L/AR501S/AR502GR...

Vehicle IoT

AR503/AR510/AR515

ARDCM (HUAWEI Inside)

PLC-IoT/RF 6LoWPAN

- Cloud managed for tens of million of terminals, easy expansion
- Open architecture, rapid integration with industrial apps
- Industrial IoT module built-in, fit for different industries

- Industrial design, wide operation temperature range, dustproof & waterproof
- Flexible interfaces & protocols (17+)
- Edge computing, service response in microseconds

- PLC-IoT, strong anti-interference, 2 Mbps (max.), 1000m (one hop), up to 15 levels of repeaters
- Support PLC-IoT/RF/DI/DO/RS485, etc.,
- Open for secondary development, rapid integration with industrial terminals

*DCM: Data Communication Module

DCM

HUAWEI Inside

Meter/Sensor

Elevator

Machinery tool

Engineering machinery

enterprise.huawei.com • Huawei Confidential • 4
Embrace and Win Digital Transformation Together