LPWA APPLICATIONS AS PART OF IoT WORLD OF CONNECTED SERVICES

IoT WORLD OF CONNECTED SERVICES

SERVICE SECTORS

BUILDINGS
- COMMERCIAL / INSTITUTIONAL
- INDUSTRIAL

Application Groups: HVAC, TRANSPORT, FIRE & SAFETY, LIGHTING, SECURITY, ACCESS ETC.

ENERGY
- SUPPLY / DEMAND
- ALTERNATIVE
- OIL / GAS

TURBINES, WINDMILLS, UPS, BATTERIES, GENERATORS, METERS, DRILLS, FUEL CELLS ETC.

HEALTHCARE & LIFE SCIENCE
- CARE
- INVIVO / HOME
- RESEARCH

PDAS, MRI, SURGICAL EQT., IMPLANTS, PUMPS, MONITORS, TELEMEDICINE ETC.

CONSUMER & HOME
- INFRASTRUCTURE
- CONVENIENCE & ENT'MENT
- AWARENESS & SAFETY

TVs, EREADERS, POWER SYSTEMS, DISHWASHERS, LIGHTING, WASHER / DRYER, METERS, ALARMS ETC.

INDUSTRIAL
- DISTRIBUTION
- RESOURCE AUTOMATION
- FLUID / PROCESSES

PUMPS, VATS, VALVES, PIPELINES, FABRICATION, MOTORS DRIVES, CONVEYORS, VESSELS / TANKS ETC.

RETAIL
- STORES
- HOSPITALITY
- SPECIALITY

SIGNS ETC., VENDING M/CS, CASH REGISTERS, TAGS, POS TERMINALS

TRANSPORTATION
- VEHICLES
- TRANS SYSTEMS
- NON-VEHICULAR

VEHICLES, LIGHTS, SHIPS, PLANES, SIGNAGE, TOLLS ETC.

SECURITY / PUBLIC SAFETY
- TRACKING
- SURVEILLANCE
- PUBLIC INFRASTRUCTURE
- EMERGENCY SERVICES

AMBULANCES, BREAKDOWN, LONEWORKERS, BORDER CONTROL, CCTV, FIRE, ENVIRONMENT MONITOR ETC.

IT & NETWORKS
- PUBLIC
- ENTERPRISE

SERVERS, STORAGE, PCs, ROUTERS, SWITCHES, PBXs ETC.

LPWA SERVICE APPLICATIONS LAYER

- BUILDING MANAGEMENT
- BUILDING AUTOMATION
- ELECTRICITY METERING
- TANK LEVEL MONITORING
- OIL AND GAS
- MEDICINE DISPENSERS
- CONNECTED MEDICAL ENVIRONMENT
- PERSONAL HEALTH MONITORING
- DEFIBRILATORS
- HOME SECURITY
- SMOKE ALARMS
- WHITE GOODS
- CONSUMER ELECTRONICS
- STRUCTURAL HEALTH
- PREDICTIVE MAINTENANCE
- EQUIPMENT MONITORING & CONTROL
- CONSTRUCTION SITE MONITORING
- SUPPLY CHAIN CONTROL
- ADVERTISING
- STORAGE
- COLD CHAIN MONITORING
- VENDING MACHINES
- SMART PRODUCT MANAGEMENT
- SMART PARKING
- LEASE / RENTAL CAR MANAGEMENT
- STREET LIGHTING
- AUTO DIAGNOSIS & CONTROL
- PAY AS YOU DRIVE
- ROAD MANAGEMENT
- WASTE MANAGEMENT
- NOISE URBAN MAPS
- ROADSIDE ASSISTANCE
- STOLEN CAR RECOVERY
- USAGE MONITORING
- ASSET TRACKING

ESSENTIAL ATTRIBUTES
- BATTERY LIFE
- TRANSMIT MODES
- MESSAGE DELIVERY
- LATENCY
- SCALABILITY
- DATA RATES
- GEO COVERAGE
- SECURITY
- DEVICE COST

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