Actility

ThingPark Enterprise

ThingPark Enterprise is the most powerful and advanced Internet of Things connectivity platform. Dedicated to enterprise networks, ThingPark Enterprise is the heart of your Low Power Wide Area IoT roll outs.

Affecting every aspect of businesses today is the ability to gather data, analyse and transform it into knowledge to optimize industrial processes, and be more efficient. Deep visibility is necessary to make the right decisions, to reduce costs and to increase revenues. Companies need flexible, scalable, powerful platforms to underpin their digital transformation journey, and ThingPark Enterprise is the answer. Applicable to any and all enterprise IoT use case; it is future-proof, and will grow as you progress in your digital transformation.
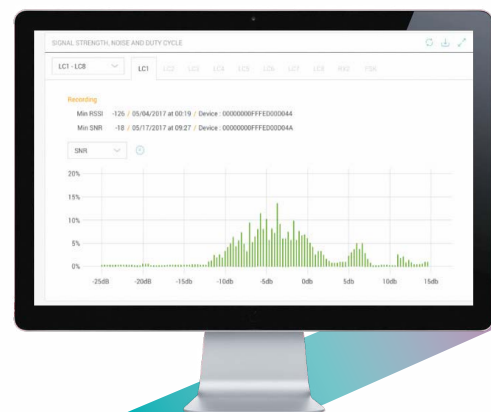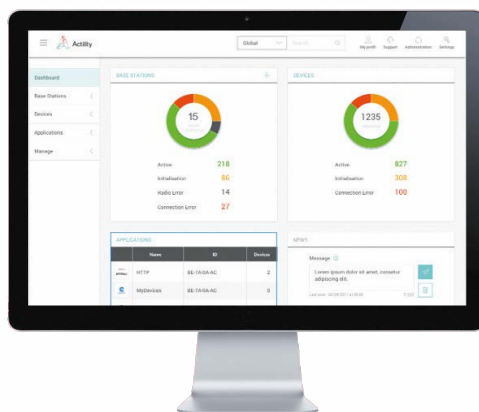
Designed to make IoT projects secure, fast, simple, flexibe and cost effective

ThingPark Enterprise is the ideal connectivity solution for all companies implementing the Internet of Things as part of their business and digital transformation. Create and operate a LoRaWAN network, add and manage base stations and devices in a few clicks. The clear and user friendly interface will enable you to easily personalize data collection and exploit data to optimize activities, with real time monitoring of the network. ThingPark Enterprise offers a range of options for routing your sensor data to application servers, popular cloud services, or IoT platforms.

ThingPark Enterprise provides seamless interoperability among Smart Things, respecting and aligning with the markets norms, it is future ready for this rapidly evolving technology.

Highlights

- Secure bi-directional communications between base station and devices
- Device battery life optimization
- Supports class A, B and C devices
- Supports a wide range of LoRaWAN base stations from Cisco, Kerlink, Multitech, UfiSpace and more
- Best in Class LoRaWAN Adaptative Data Rate algorithms

- Connectors and Data-flow features to connect to the cloud
- Join Server included
- Secure Key Management
- Email - SMS alerts and notifications
- Rich suite of APIs
- Choice of deployment method
- Fast and easy roll out
- Highly scalable
- Pay as you grow software subscription model

Solution Specifications

LPWA networks are designed for IoT and M2M applications having low data rates and therefor long battery life. These networks are unique in their capacity to transmit information securely, from devices located at a great distance in hard to reach locations such as rural areas, and also highly populated areas including cities.

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Actility's LPWA solution implementing the LoRaWAN standards, delivering:

- LoRaWAN V 1.1 supported featured
- LRR frequencies covered including but not li mited to EU 868, US, AS, AUS
- Secured by AES 128 encryption
- IPSec tunnels/VPNs
- OTA provisioning
- Base station & device management (RF & Backhaul)
- Packet de-duplication
- Duty cycle optimisation for base station downlink transmission
- Payload decoders supported
- Intuative UX
- Proprietary features
  - Supports Spreading factor

Choose your ThingPark Enterprise

	ThingPark Enterprise Small	ThingPark Enterprise Medium	ThingPark Enterprise Large	ThingPark Enterprise X-Large (XL)
Base stations	Up to 10 Base stations	Up to 50 Base stations	Up to 100 Base Stations	Upt to 200 (+SaaS) Base Stations
Delivery options	SaaS Model Operated by Actility Subcription yearly fee			
	On Customer Premise (deployed on blade or customer cloud) Subscription yearly fee			
IOT (DX) Standard Cloud Connectors (includes HTTPS, MQTT) **For SaaS deployment**	Choose up to 3	Choose up to 5	Choose up to 20	Choose up to 20
IoT (DX) Standard Cloud Connectors (includes HTTPS, MQTT) **For OCP deployment**	Choose up to 3	Choose up to 3	Choose up to 5	Choose up to 5
Part Number SaaS Operated by Actility	GRP0711000	GRP0721000	GRP0731000	GRO0741000
Part Number Deployed OCP	GRP0712000	GRP0712000	GRP0713000	GRP0742000

Choose your LRR (base station) Traffic profile

# of Base Stations	Macro base station	Nano base station
Traffic profile	Unlimited traffic within regulatory limit	Up to 25,000 transactions per day per base station within regulatory limit
Part number	SW0701400	SW0701500

Hardware Specifications for OCP – On Customer Premise (deployed on blade or customer cloud)

	ThingPark Small	ThingPark Medium	ThingPark Large	ThingPark X-Large
Minimum Hardware requirements	CPU : 2 cores (e.g. Core i5-4570S) 16 GB RAM Disk 70GB available 65 IOPS 2×70GB (RAID1)	CPU : 4 cores (e.g. Xeon E3-1275v3) 24 GB RAM Disk 100GB available 130 IOPS 2×100 GB (RAID1)	CPU : 10 cores (e.g. Xeon E5-2650v3) 32 GB RAM Disk 140GB available – 210 IOPS 2×140 GB (RAID1)	CPU : 12 cores (e.g. Xeon E5-2670v3) 64 GB RAM Disk 200GB available 445 IOPS 2×200 GB (RAID1)
	24 UL / 2 DL frames per day per device Average UL/DL traffic: 0.6/sec average PEAK UL/DL traffic: 3/s	24 UL / 2 DL frames per day per device Average UL/DL traffic: 3/sec average PEAK UL/DL traffic: 15/s	24 UL / 2 DL frames per day per device Average UL/DL traffic: 6/sec average PEAK UL/DL reports: 30/s	24 UL / 2 DL frames per day per device Average UL/DL traffic : 15/sec average PEAK UL/DL reports: 75/s

About Actility : Actility connects the industrial internet of things. The ThingPark LPWA solution platform connects sensors to cloud applications at any scale, from global or national networks to on-campus enterprise solutions, managing devices, data flows, security and monetization. Actility is a pioneer of LPWA network technology and co-founder of the LoRa Alliance.