Challenges you may face when deploying large scale IoT projects

Cellular technology has evolved over time to address the early barriers to adoption in IoT.

Cellular LPWAN now caters for low power, long battery life needs, while 5G addresses high bandwidth, ultra-low latency requirements.

Radio access technologies provide one layer of the solution. Conexa goes further and addresses a wide range of technical, commercial and operational challenges such as:

Roaming and Data Restrictions

Some applications or territories have regulations which limit the type of services which can be used (permanent roaming restrictions), or where data can be transmitted and stored (data sovereignty).

Complex Cellular Technology Landscape

Selecting the right radio technology or adopting eSIM requires the right component choices and process changes. Connectivity providers need to simplify and automate to optimise development cycles.

Connectivity Supplier Overheads

Integrating with multiple radio networks and different management platforms has resource, cost and skill overheads. A single platform and network integration is the optimum solution.

Inconsistent Service and Support

Operationally, a single point of contact is required to manage radio network operators and provide consistent high-quality support throughout the entire product lifecycle.

High Network Availability

Connectivity providers need to provide management tools, implement end to end monitoring of connections and the support services to proactively resolve any outages in radio or core networks.

Lack of commercial flexibility

IoT use cases have different data, operational and business model requirements. Flexible tariffs and commercial constructs are required to simplify procurement and end-user billing.

Cyber Security

Only authorised devices should connect to enterprise servers or cloud infrastructure. Data must be transmitted securely and handled in accordance with regulations such as GDPR and ISO 27001.

Cloud Integration and Scalability challenges

Zero touch provisioning of IoT devices and auto-enrolment with cloud service providers (AWS, Azure, Google Cloud) is required to automate deployments and enable scalability.

Vendor and Technology Lock-in

Having the flexibility to mitigate quality, commercial and roaming issues is critical. Being locked in to a technology or to a single vendor is a big risk given the costs involved in switching SIMs post deployment.

Fraud Detection

Mechanisms are needed to automatically identify and block unauthorised usage. Attempts to use SIMs in other devices or use devices in unapproved countries have the potential to compromise security or create bill-shock.

Explore our connectivity solutions and how they address these challenges...

Our Connectivity Solutions

Local Deploy

For national or regional deployments with cost sensitive or low-latency requirements. Select from single or multi-network options and low or high data tariffs, to suit your application requirements.

Global Deploy

A single SIM for global deployments. Leverage global or regional multi-network roaming options for optimum coverage. Use remote SIM provisioning services for multi-IMSI SIMs and eSIMs to help economise, or to mitigate quality or regulatory issues with radio networks.

Ultra-High Availability

On-SIM controls detect and initiate immediate failover to an alternative radio and core network infrastructure, mitigating the impact of network performance issues.

Cloud Secure

Enhance security, deployment flexibility and scalability by using on-SIM technology for zero-touch onboarding of devices to services built on AWS, Azure or Google Cloud.

Low Power

For sensor applications which have economy of scale challenges such as longer battery life, strict size or cost limits, which are deployed in massive volumes on a deploy- and-forget basis.

Remote SIM Provisioning

Advanced rules engines and on-SIM applications enable zero-touch provisioning which enhance the flexibility, resilience and security of your products.

Explore the benefits and features of Conexa...

Conexa features and network capabilities

Conexa uses the best available technologies to help you to create **robust, secure** and **scalable IoT solutions,** while having **control** of the cost of ownership.

Global Deployment with a single SIM
We provide a single SIM for global deployments and a range of local connectivity solutions for the key global markets.

Network of Networks
Conexa is a full-service and independent connectivity platform solution with interconnects to an eco-system of 50+ radio network partners.

Single Point of Integration & Control
Our carrier-grade private infrastructure provides cost effective and secure access to all our radio network partners through a single interconnect.

GSMA Compliant
With the Conexa network, we are a GSMA compliant, licensed IoT operator and can build our own SIM profiles or in partnership with MNOs.

Protecting your Data and Reputation
Private network infrastructure and features like IMEI locking, white or blacklisting, VPNs and Private APNs protect your devices and data.

Multi-Service Capability
Conexa supports Data, Voice, SMS on the legacy and current cellular bearers; 2G, 3G, 4G (LTE Cat-1 to Cat-6), LPWAN (NB-IoT, LTE-M) and 5G.

Solution Design Consultation
Our Solutions team will help you make the right technical and commercial choices for successful deployment of your products and services.

Always On Connectivity
Conexa was built for IoT. A dual redundant core network with automatic failover ensures high availability needs can be met.

SIM and Device Management
SIMPro and DevicePro provide remote manageability, insights and detailed analysis of device behaviours and performance.

Zero-Touch Provisioning
Conexa includes a remote provisioning platform (RSP) and advanced rules engines to automate management and control of SIMs.

Advanced on-SIM Technology
SIM applets, multi-IMSI and eSIM technology enhance security, resilience and flexibility which enables you to enter new markets quickly.

Cloud Secure and Scalable
Advanced on-SIM security automates device authentication and secure cloud registration enabling dynamic and scalable deployments.

Optimise and Economise
Adapt connectivity according to your deployment plans, lifecycle requirements or to mitigate any radio network performance or commercial issues.

Device Testing and Compliance
Our Solutions team provide integration advice and device testing services to ensure your product is compliant and performs as required.

SIMPro

- Smart connectivity management platform
- Optimise your costs and pre-empt issues through powerful insights
- Automate your connectivity
- Help and support in real time
- Unified and flexible billling

Where does Conexa fit in my system hierarchy?

How **Conexa** works...

Things we connect

Radio Network Partners

LPWAN

4G

5G

conexa

- Connectivity Management
- Remote SIM Provisioning
- Secure Private Networking

- Mapping Solutions (here, Google Maps)
- Device Management
- Quality of Service
- Billing Services

Cloud and Enterprise Interconnects

- Private IT Platforms
- Cloud Service Providers (Azure, aws, Google Cloud)
- Internet Breakout

Contact us to talk to an expert or request a starter kit...

Why use **Conexa** from Wireless Logic...

Built for IoT
The Conexa mobile network has been built by Wireless Logic specifically to address the evolving needs of global IoT.

Single SIM for Global Deployments
Deploy with confidence using a single global SIM which can be optimised over-the-air.

Simplify your Supply Chain
Reduce complexity in your procurement and logistics processes for a seamless factory to field transition.

Secure by Design
Advanced on-SIM applications and network services enhance system security.

Advanced Management and Control
Control and manage your on-SIM and on-device behaviour using rich analytics and insight from SIMPro and DevicePro.

IoT Expertise. *Support all the way from design to deployment*

Contact us today...

to talk to an expert or request a starter kit

Call: **+45 7022 2045** Email: **nordic@wirelesslogic.com** Web: **wirelesslogic.com/conexa**