wireless logic

Ultra High Availability

Cellular networks are inherently secure and resilient. Outages are not frequent events but they can happen, typically on networks which were designed for consumer services.

Wireless Logic's global cellular network was designed and built for IoT and includes solutions designed to mitigate outage events whether they occur in the radio access network (the cell towers) or in the mobile core networks.

Cell or network outages can can sometimes be tolerated if the downtime is short however there are many IoT applications where this is not true. Downtime of 30 minutes or longer can create significant issues for solution providers which can lead to loss of revenue or reputation, financial penalties or insurance risks or create health and safety issues.

Find out more about Ultra High Availability… ▶

Benefits of Ultra High Availability

Maximise online availability

Our Ultra High Availability solutions use on-SIM applications to detect and mitigate network outage issues.

Fault Detection and failover

Our SIMs use counter measures to automatically detect and switch to an alternative network connection.

Maintain critical communications

Minimise the impact of interruptions to safety or business critical communications.

Protect your reputation

Use Ultra High Availability as a USP and protection against adverse impact on revenue or reputation.

# How on–SIM and network services combine to **keep devices online**

➤ **Remove single points of failure**
Traditional SIMs, including roaming SIMs can suffer from single points of failure.

➤ **Build in redundancy**
Our Ultra High Availability solution provides two isolated end-to-end data paths.

➤ **Advanced on-SIM solution**
Let the SIM detect and manage outages with minimal development overheads in your device or cloud software.

➤ **Independent**
The SIM will operate independently of network control and initiate fail-over and fall-back automatically.

➤ **Solutions Support**
We will advise and support you through integration, field testing and full deployment phases.

Which applications benefit from Ultra High Availability? ➤

Sectors **benefitting** from Ultra High Availability…

Applications which require **protection against loss of revenue and reputation**

Payments

EV Charging
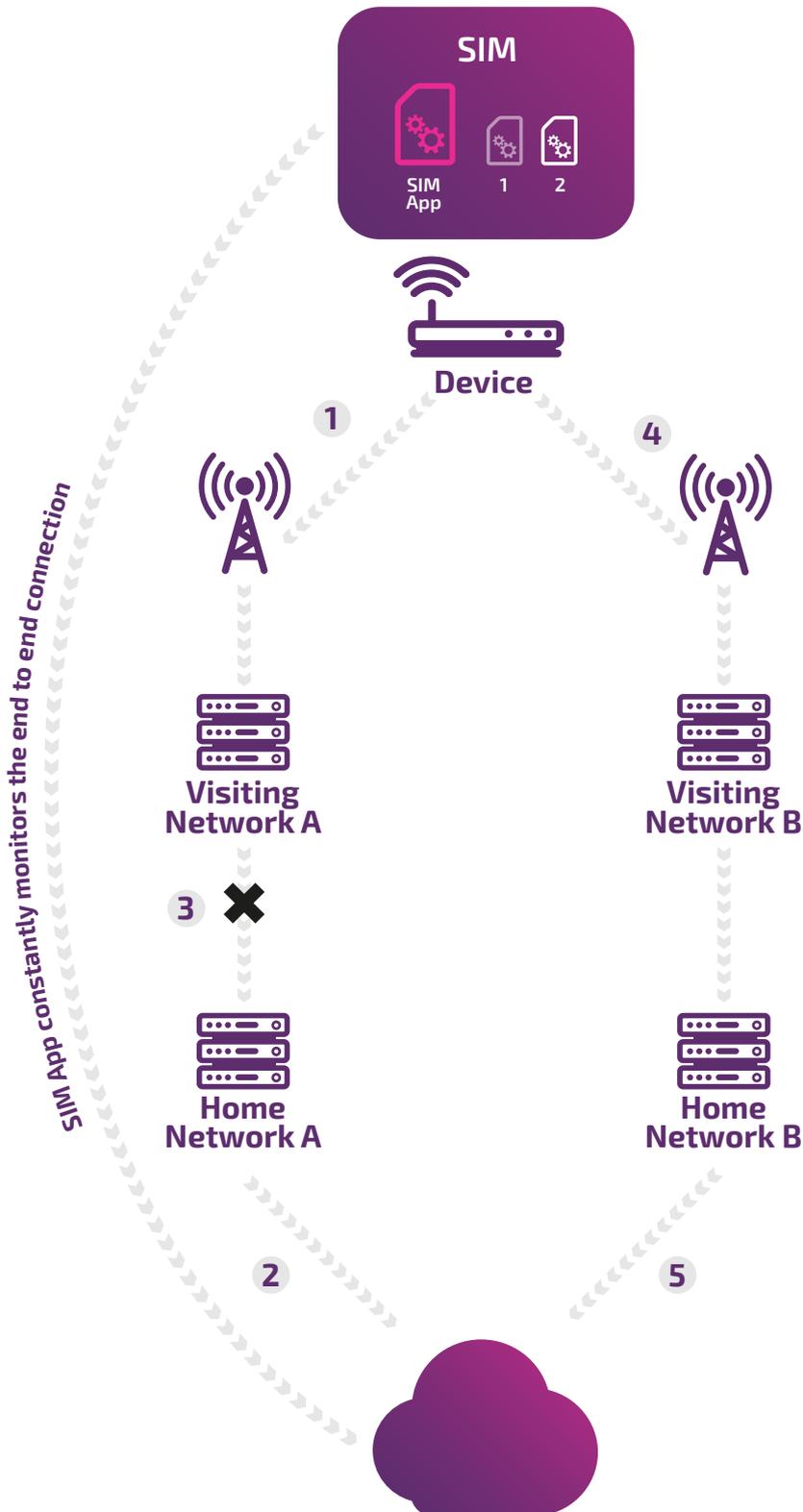
Kiosks / Vending / Lockers

Last Mile Delivery

Taxi Meter

Micro-Mobility
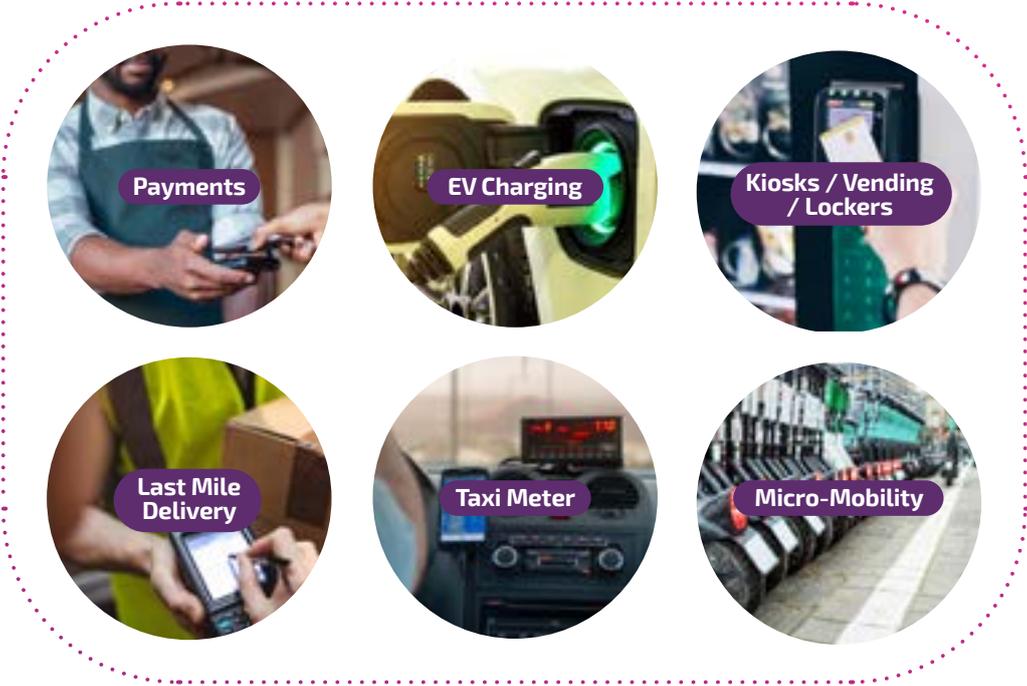
Organisations who have **health or safety critical requirements**

Lone Worker

First Responder

Critical Infrastructure

How does Ultra High Availability work? ➤

How **Ultra High Availability SIM** works

SIM

SIM App | 1 | 2

Device

Visiting Network A

Visiting Network B

Home Network A

Home Network B

SIM App constantly monitors the end to end connection

1 The primary profile [1] on the ultra high availability SIM enables access to a number of roaming partner networks. Which network is actually selected depends on rules on the cellular module in the device and on signal conditions.

2 This connection will be used until a connectivity issue in the cell or core network infrastructure is detected.

3 An outage at cell or core network level will cause communication failures which will be detected by the SIM app which is constantly monitoring the end to end connection.

4 The SIM App will force a profile switch [2] and a new connection on the secondary (failover) network. By automating, this switch happens quickly and without network, cloud or manual intervention.

5 The device can now communicate with the application server using a separate data path.

Learn more about the Wireless Logic network eco-system… ❯

Things we connect...

How...

LPWAN

4G

5G

Our 'Built for IoT' network

conexa
the network for **things**

Some of our partner networks

Telefónica

orange

SFR Business Team
Faire équipe avec vous

kpn

Deutsche Telekom

vodafone

BT

telenor

Telia

Telecom Italia

verizon

AT&T

中国移动 China Mobile

中国电信 CHINA TELECOM

SIMPro

Connectivity Management

eSIM **eSIM Profile Management**

Secure Private Networking

Cloud and Enterprise Interconnects

Private IT Platforms

Cloud Service Providers
aws

Internet Breakout
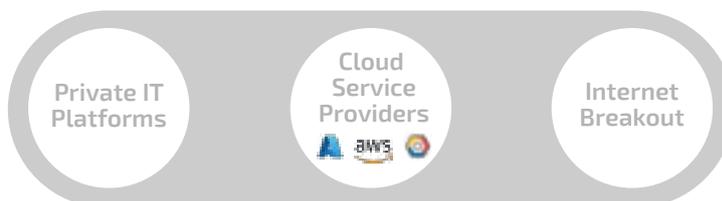
Talk to our IoT solution experts about Ultra High Availability... ❯

Why Wireless Logic?

Global Coverage
Our 'built-for-IoT' network services and partnerships provide global coverage and local access into 50 major networks.

Flexible Solutions
Operator and technology agnostic solutions, with pricing that scales with your business.

SIMPro Platform
Connectivity management through a single, smart window.

Expert Local Support
20+ years' experience in helping our customers design, deploy and manage IoT applications.

Secure & Resilient
Private infrastructure in 15 major data centres transmitting data reliably from device to end-point

Contact us today...
to talk to an expert or get a quote

Call: **0330 056 3300**   Email: **hello@wirelesslogic.com**   Web: **wirelesslogic.com**

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