

# Ultra High Availability SIM

## Our highly resilient solution to cell & network downtime

### How we keep devices online

Other SIM solutions can sometimes suffer from single points of failure, leaving you and your business vulnerable in the event of any downtime caused by cell or network outages. So, how does our Ultra High Availability SIM overcome this?



#### Removing a Single Point of Failure

Our high availability solution provides two isolated end-to-end data points, via two independent operators.



#### Fault Detection & Failover

The SIM uses counter measures to automatically detect and switch to an alternative network connection in the event of an issue.



#### Protecting your Business

The high availability applications 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.

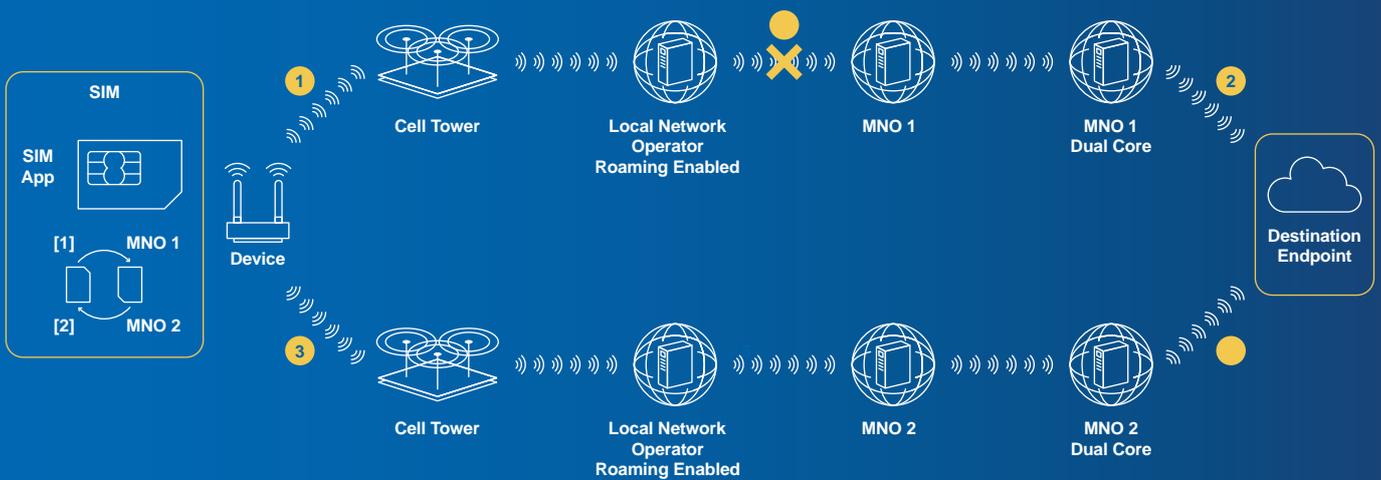
### The benefits of a Mobius Ultra High Availability SIM

- Maximises online availability
- Maintains critical communications
- Protects your reputation
- Secure and reliable
- Utilises two independent, VoLTE enabled, unsteered roaming profiles



# How it works...

Sim App constantly monitors the end-to-end connection



No single point of failure by utilizing 4 geo redundant routes – the primary profile [1] is routed through the MVNO 1 core infrastructure via MNO 1, whilst the secondary profile (2) is routed through the MVNO 2 core infrastructure via MNO 2.

- 1** The primary profile [MNO 1] on the ultra high availability SIM enables access to a number of roaming partner networks.
- 2** This connection, routing through the MVNO 1 core infrastructure, 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 and a new connection on the secondary (failover) network [MNO 2]. By automating, this switch happens quickly and without network, cloud or manual intervention, still giving access to a number of roaming partner networks.
- 5** The device can now communicate with the application server using a separate data path, through the MVNO 2 core infrastructure.

Cellular networks are inherently secure and resilient. Outages are not frequent events, but they can happen, typically on networks designed for consumer services. Our Mobius Ultra High availability SIM can mitigate the issue of downtime, which otherwise can cause significant problems for IoT applications.

## Sectors benefitting from Ultra High Availability



Healthcare



Payments



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Security



EV Charging



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Critical Infrastructure



Smart Cities

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