

eHealth

Connectivity for Clinical Trials

Clinical trials have increasingly moved forward from in-clinic assessments to more mobile and remote information gathering. This reduces the number of patients visiting medical centres, saving clinical researchers time and resource. With the outbreak of COVID-19, the requirement to enable patients to take part in clinical trials from the safety of their homes is driving innovative eCOA (Electronic Clinical Outcome Assessment) and ePRO (Electronic Patients Reported Outcome) solutions which improve the patients' experience.

Data collection is more efficient and accurate through cellular connected devices as well as allowing real-time insights and accelerating clinical study outcomes.

Cellular connectivity can provide Solution Providers and Device Manufacturers with an 'Always On' secure and reliable 4G solution for higher bandwidth applications or LTE Cat 1 BIS / LTE-M for battery operated or lower power bandwidths applications, allowing for rapid deployment and more accurate data transfer.



Find out more... 



'Always-On' Connectivity

Network connectivity which is resilient to network (fixed line/mobile) outages or areas with poor signal



Rapid Deployment

Devices should deploy and operate without any network surveys or customisation



Data Security

Security and privacy of patient identity and information



User Experience

Devices should work straight out of the box and be easy to use without the need or complexity of Bluetooth or WiFi



Reduce Overall Costs

Increased patient participation without the need for in-clinic visits

Why consider cellular connectivity for your Clinical Trial applications

➤ 'Always-On' Connectivity

eSIM and 4G LTE technologies provide connectivity options which are more resilient than WiFi. They also provide the flexibility for Device Manufacturers and Solution Providers to create single product SKUs which can be deployed or re-deployed quickly into new markets. This reduces manufacturing costs and simplifies logistics.

➤ Rapid Deployment

Coverage issues are mitigated by roaming SIMs which allows devices to find and connect to the 'strongest signal'. eSIM allows network providers to be updated over-the-air should commercial or network performance issues arise.

➤ Data Security

SIM-based authentication and secure private networks (Private APN and VPN) provide protection from internet security risks such as WiFi hubs and ensure secure routing to approved data centres.

➤ Improve on BTLE, WiFi user experience

With 4G LTE there is no need to pair devices with other equipment such as smart phones or WiFi hubs. Devices can operate independently with minimal set-up.

➤ Lower Cost of Ownership

4G supports high performance applications like video. LTE Cat-1 BIS and LTE-M provide single antenna options and battery efficiency which can help keep hardware costs and device dimensions smaller.

➤ 2G/3G sunseting

LTE Cat-1 BIS and LTE-M are good alternatives to 2G and 3G which will be turned off during the next few years.



Clinical Trial applications connected with **cellular connectivity**



Tablet/Smartphone Devices

Patients answer questions and report on their health through ePRO devices which can be simply turned on and ready to go from a patient's home.



Wearables

Can continuously track and monitor things like the patient's pulse, temperature, heart rhythm or sleep patterns and accurately send the data directly to clinicians, reducing human error.



Your Clinical Trials applications will be **secure**

Keeping patient data secure is critical. Risk of data breach or hacked information can have huge and damaging implications for the patient and the healthcare provider.

Locking down and encrypting data through private network overlays will help to mitigate any risk of data loss. By working with a connectivity provider with ISO27001 certification, Solution Providers and Device Manufacturers will have the reassurance that any data generated will be managed and processed securely.



*Talk to one of our solution experts
about which cellular solutions would
be right for your deployment... ➤*

Why Wireless Logic for Clinical Trial connectivity?



Resilient connectivity

Un-steered roaming for secure 'Always-On' 4G, LTE Cat-1 BIS and LTE-M connectivity.



Secure two-way data

Private network infrastructure with private APNs and VPN solutions.



Total Control

Any network, any number of deployments, all centrally managed through the **SIMPPro** platform.



IoT Expertise

Tailored solutions for your application's specific connectivity needs.



Security Standards

ISO27001 accredited.

Contact us today...

to talk to an expert or get a quote

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