WIRELESS LOGIC **IOT CONNECTIVITY**

Transport & Logistics

Electric Vehicles

The demand for Electric Vehicles (EVs) is at an all time high.

With the demand being driven by Governments across the world working towards net zero and an impending ban on the manufacture of combustion engine cars by the end of this decade, the pressure is on for organisations across the EV charge point value chain.

OEMs, Charge Point Operators (CPOs), Software-as-a-Service (SaaS) providers and energy providers, need to provide a seamless charging experience for drivers, regardless of location. Installing charge points quickly and securely comes with its own challenges. Planning constraints from local authorities, the cost of installation and fixed line connectivity isn't always or easily available and can really slow down a deployment.

Cellular connectivity can address these challenges and enable CPOs and OEMs to rapidly deploy an 'Always-On' and secure solution that can be accessible to millions of drivers across the UK, EU and world.

Find out more...

Application Requirements for connected EV Charge Point solutions

'Always-On' Connectivity

Network connectivity which is resilient to outages or poor signal coverage

Rapid Deployment

Charge points should deploy and operate at scale across any network and in any location

Secure Two-way data

Private infrastructure and VPN solutions comply with Open Charge Point Protocol (OCPP) 1.6 and 2.0

User Experience

Charge points should work straight away once installed and be easy to use

Lower Cost of Ownership

Deployments should avoid any major investment, leased lines or support infrastructure and reduce management and engineering outlays

Why consider **cellular connectivity** for your EV Charge Point applications

- **'Always-On' Connectivity**
  eSIM and 4G LTE technologies provide resilient and flexible connectivity options. They enable OEMs and CPOs to manage, maintain and monitor charge points anywhere, even in the most rural settings and roaming solutions reduce the need for onsite surveys prior to deployment.
- **Rapid Deployment**
  Coverage issues are mitigated by roaming SIMs and eSIMs allowing devices to find and connect to the 'strongest signal'.
- **Data Security**
  Encrypted private networks (Private APN and VPN) and Fixed Private IPs provide secure two-way communications making the solution compliant with OCPP 1.6 and 2.0.
- **Lower Cost of Ownership**
  eSIM allows OEMs and CPOs to manage costs more effectively with Over-The-Air profiling and access multiple networks. Full visibility of the entire SIM estate allows for managing and controlling SIMs across multiple networks in any location and removes the requirement to send out engineers unnecessarily.
- **2G/3G sunsetting**
  LTE Cat-1 is a good alternative to 2G and 3G which will be turned off during the next few years. Charge points using 2G/3G networks are typically built with module compatibility using 4G, meaning that they can be recommissioned to connect to 4G without having to change the whole unit.

Explore applications we're connecting...

EV Charge Point applications **connected** with **cellular connectivity**

At home Charging

Provides EV drivers with a charge point, usually connected to wi-fi.

On-street Charging

Provides a charging infrastructure for EV drivers who do not have access to a home charging point and without off street parking.

Public Charging

Multiple chargers in a single location for AC and DC charging, accessed via a mobile app, 'Plug and Play', contactless payment or RFID card.

Forecourts

Provide EV drivers with chargers & contactless payment across AC and DC charging options.

Your EV Charge Point will be **secure**

Keeping data secure, from the application to end-point is critical.

Our private infrastructure solutions, ISO27001 accredited processes and people are there to ensure that we minimise data security risks. Any two-way communication will be managed and processed securely.

Read some of your EV Charge Point success stories...

EV Charge Point **success stories**

Liberty Charge

The UK's newest on-street EV charge point operator provides residents with easy access to charging facilities through on-street charge points.

The biggest challenge for many people, and one that can deter them from investing in an EV, is that they do not have access to a driveway or garage, or the funds for an EV charge point. Using an un-steered SIM from Wireless Logic, ***Liberty Charge*** can collect data from their EV Charge Points through 'Always-On' 4G cellular connectivity, connecting to any network and future proofing their solution, avoiding repeat road digs to lay cables in towns and cities. By overlaying Wireless Logic's IPSEC VPN, Liberty Charge can securely connect to their backend management SaaS solution and using SIMPro, Wireless Logic's SIM management platform, manage and monitor their active SIMs with real time data.

"We ensure that consumers using our on-street charge points can charge their vehicles at any time. Wireless Logic has helped us mitigate any future risks associated with connectivity, while also securely storing usage data and facilitating comprehensive reporting."

Neil Isaacson, CEO, Liberty Charge

Plug-N-Go

Plug-N-Go are a provider in best-in-class AC and DC EV Charging solutions for both rural and city locations across the UK.

With the growing number of EV charge points, especially in more rural locations or where fixed line isn't always available, they needed a solution that could be rapidly deployed and not have to work out which network SIM to install where. Using an un-steered roaming SIM for 'Always-On' 4G cellular connectivity, with Fixed Private IP for secure two-way communication and making their solution OCPP 1.6 and 2.0 compliant, and SIMPro for SIM management, Wireless Logic were able to support ***Plug-N-Go*** with a secure and resilient EV Charge Point solution, including many deployed in rural locations.

"We needed to update our network provision for data SIMs on our EV charging network, which would run simultaneously on our UK network as well as our Channel Island and Gibraltar charge points. We found swapping our charge points over to Wireless Logic was a simple process and if we needed assistance whilst we were on site, they were very helpful – we're pleased with the transition."

Keith Hounsell, Founder and CEO, Plug-N-Go

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

Why Wireless Logic for EV Charge Point solutions?

Resilient Connectivity

Un-steered roaming for secure 'Always-On' 4G, connectivity.

Security Standards

OCPP 1.6 and 2.0 compliant, ISO 27001 accredited.

Secure Two-way Data

Private network infrastructure with private APNs and multiple VPN solutions to meet specific network requirements.

Total Control

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

IoT Expertise

Tailored solutions for your application's specific connectivity needs.

Contact us today...

to talk to an IoT solutions expert or get a quote

Call: 0330 056 3300 or 07824 485966

Email: justingodfreycass@wirelesslogic.com Web: wirelesslogic.com

wireless logic