

Building Bridges to Business Innovation with APIs



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A modern [EV Charging Management platform](#) must offer charging network providers a robust and comprehensive capability set to streamline and support the business of EV charging. Such a platform must satisfy a wide range of charging management requirements out of the box. However, no platform can claim “one size fits all” status. To accommodate the broadest gamut of business and technology needs, charging network providers and their integration partners need a platform with a rich set of APIs.

APIs - Application Programming Interfaces - define parameters, rules, and protocols to enable communication and interoperation across software applications and execution environments. APIs can bridge across applications on a single (local) compute node, on multiple computer systems, and across the Internet.

API definitions include parameters and data formats that applications can use to request and exchange information or perform specific actions. They serve as “bridges” to enable software systems to interact and share data and functionality seamlessly, even when those systems use different programming languages, operating systems and CPU types.

API Categories

Driivz offers customers and integrators a rich portfolio of APIs that facilitate support for legacy systems and for extending the functionality of the Driivz EV Charging Management platform.

Driivz APIs provides a versatile array of secure synchronous APIs that follow the [REST](#) (Representational State Transfer) model. Driivz also supports an event bus for asynchronous and high throughput payloads to process latency-sensitive and time-sensitive events, such as live meter reading and connector status changes.

Driivz API categories include:

[Billing](#) - handling invoicing and reconciliation, rating, tax calculation and payment, and [fleet management](#).

[Charger Operations](#) - alerts, asset management (locations, groups), charger and charger model management, transactions, token and card management, data lake interaction, and interaction with parking and municipal systems.

Driivz also supports the [OCPI](#) (Open Charge Point Interface) protocol. OCPI is not strictly speaking an API, but is used by many customers to automate [roaming](#).

[User Accounts](#) - driver onboarding and account management, payment methods and contracts, vehicle registration and notification.

Customer Service and Support - call center interface, service request ticketing and management, vendor contract management.

Energy Management - Demand/Response, policy/priority management, external [smart charging](#)/metering and [V2G \(ISO 15118\)](#), and processing in-vehicle data.

Security - Authentication and authorization, single sign-on (SSO) and user management, key and token management, and eWallet transaction security.

Use Cases in EV Charging Management

Driivz, its customers and ecosystem partners have implemented scores of integrations between customer software and the Driivz EV Charging Management platform. The following use cases are illustrative of real-world challenges addressed using Driivz APIs.

Enhance and Update Existing Apps with a New Back-end

Early entrants into the EV charging market deployed and still maintain in-house proprietary (home-grown) management platforms. As the market evolves and charging network operator business grows, legacy platforms become costly to maintain and scale; adding new functionality and features to meet user expectations increasingly outstrips available resources.

Driivz APIs ease migration to a flexible management platform while preserving investment in a familiar customer-facing application front-end. The Driivz EV charging Platform also offers new capabilities and business opportunities not imagined in legacy home-grown platforms.

Add EV Charging to Existing Apps and Legacy Services

Creators of mono-purpose, narrow scope applications (e.g., parking facilities) look to the Driivz EV Charging Management platform for a path to new business opportunities. By leveraging the rich Driivz API portfolio, customers can break into the EV charging business while preserving investment in legacy apps and revenue sources.

By adopting Driivz as a back-end, customers can speed new services to market. Driivz streamlines bringing up EV charging capabilities (account management, billing, etc.) and technologies ([OCPP](#), [OCPI](#), etc.) with a robust and flexible platform boasting stable and comprehensive APIs.

Manage EV Charging Operations with Enterprise Software

SMB and Enterprise organizations make significant, strategic investments in CRM and ERP systems at the core of their operations. Corporate management seeks to enhance ROI from those systems, even beyond their original missions, e.g., for EV charging management.

The Driivz EV Charging Management platform and its extensive APIs provide the ideal avenue for these organizations to build on existing operations software to manage, scale and innovate in EV-related business activities.

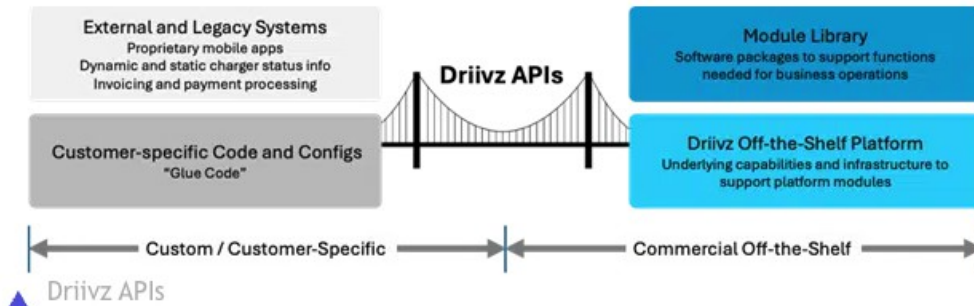
Enter New Markets

The Driivz EV Charging Management platform and its API portfolio help EV network providers bootstrap EV charging and related business. Rather than spend years building a software stack from scratch, customers look to Driivz to provide a “zero code” option for implementing charging infrastructure.

Driivz lets customers save scarce development resources for differentiating / value-added activities. Driivz helps new entrants launch an MVP quickly and efficiently, adding new modules and functions as requirements emerge and business develops, with lower TCO.

Bridging from Home-Grown to Off-the-Shelf

APIs play a crucial role in software integration, interoperability, and extensibility. Driivz customers and Driivz own services organization support novel requirements and unique interoperability needs by calling APIs that complement and augment functionality in customer-specific applications and legacy software.



Driivz APIs lets customers (and Driivz itself) accomplish a range of both technical and commercial goals:

- Enables modular design, in the platform itself and in customer-specific applications and infrastructure
- Facilitates inter-system communications among diverse components
- Accelerates development and reduces costs, by eliminating the need for one-off code creation and offering rich off-the-shelf functionality
- Enhances user experience, by letting charging network operators and other customers deliver best-in-class, differentiated end-user apps on top of a robust API
- Expands market reach, by enabling adjacent ecosystem participants to add EV charging to their revenue mix
- Supports scalability, by removing limitations in legacy back-end software
- Maintains Security, by offering [industry-standard](#) API security authentication, authorization and transaction security

To accelerate your migration to the Driivz platform and to enjoy the power and flexibility of Driivz APIs, contact Driivz today.