

Charging Network Manager Features and benefits



Eaton Charging Network Manager (CNM) software

Tightly integrated electric vehicle (EV) charge stations and management software provide a robust, reliable, easy-to-deploy and easy-to-manage product suite for applications ranging from fleet to commercial to residential.

Key features

Operator portal

The CNM operator portal is a simple, easy-to-navigate portal that offers customers a network dashboard, location and station information, access and pricing controls and reporting capabilities. It is a simple, intuitive, easy-to-learn, easy-to-use, and information-rich resource for all charge station owners.



Features include:

Location management

The portal allows site owners to create one or more locations to organize and categorize their charge stations on their network. This provides a superior organization of charge stations, easier navigation in trouble-shooting stations and streamlined report preparation.

Station management

The portal enables adding new stations or modifying existing stations. Simple onboarding of new charge station assets and quick and easy tools for product license management make it simple to set up and maintain stations under management.

Driver access and management

Easily control who can access your charging stations, to ensure they're available when needed. Through CNM, station owners can grant access to individual drivers or groups of drivers. Access policies can apply to individual stations or groups of stations.

In permitting access, this module enables automated onboarding of drivers by email domain so that organizations like corporate campuses can avoid the overhead of actively managing their drivers' access.

RFID support

While most drivers use their mobile phone to access charge stations, Eaton CNM also supports standard-compliant (Radio Frequency Identification) RFIDs. Cards are ordered directly through the Eaton CNM website and the drivers first card is free.



Adding an RFID to a driver account is quick and easy and only requires entering a few digits through the mobile interface.

Pricing policies

Pricing policies allow operators to configure how they charge drivers for use of the charge stations. Basic options include flat rate, time-based and energy-based policies. Pricing window (time-of-use) and driver group exceptions may also be applied. Policies may be applied to all, or a limited set, or only a single charge station at the operator's discretion. Functionality includes:

- **Enables monetization** of the charging station
- **Enables organization-wide** or granular application of pricing policies to simplify system configuration
- **Provides operators with an ability** to differentiate pricing between different groups of drivers and confer benefits appropriately
- **Allows operators to mitigate** peak loads through pricing mechanisms and match actual electricity costs with usage.

Reporting

The portal provides a set of simple reports that can be customized by date range and which include basic system usage statistics such as: total users, total charge sessions, total energy consumed, charge session details and revenue collected. Charge session interval reporting is also available which satisfies the requirements of most utility charge station subsidy programs. Users can export reports in both .pdf and .csv formats.



Driver mobile access

Drivers primarily interact with charge stations through their smart phone. The Eaton CNM bypasses the traditional app download and works directly with the mobile phone's browser. Simply approach the charge station, scan the QR code and the phone will automatically open the station information on a web page.

Depending on the configuration of the charge station, drivers can charge immediately (if the charge station is public and doesn't require payment) or can enter a credit card for use of the station (if payment is required).

All credit transactions enabled through the mobile interface are fully PCI-DSS compliant through a tokenization process managed by Stripe. Neither the app nor the Eaton CNM cloud ever store driver credit card data.

Demand response

The Eaton CNM allows station owners to participate in demand response programs via its implementation of an OpenADR 2.0 Virtual End Node (VEN). This open-source demand response protocol is widely used by utilities in North America and elsewhere. Capabilities of the integration include remote start/stop and throttling of charge stations based on events called by electric utilities or load aggregators and also enables dynamic pricing based on day-ahead or real-time pricing signals.

Load management

The Eaton CNM provides load management capabilities that enable the over-subscription of power at the panel level and can support single or 3-phase panels. By grouping stations together into charge groups and setting a maximum load across the group, the system enables throttled load balancing which provides equal power across all active stations. This reduces the capital investment in power distribution that would normally be required to support a large number of charge stations at a single location.

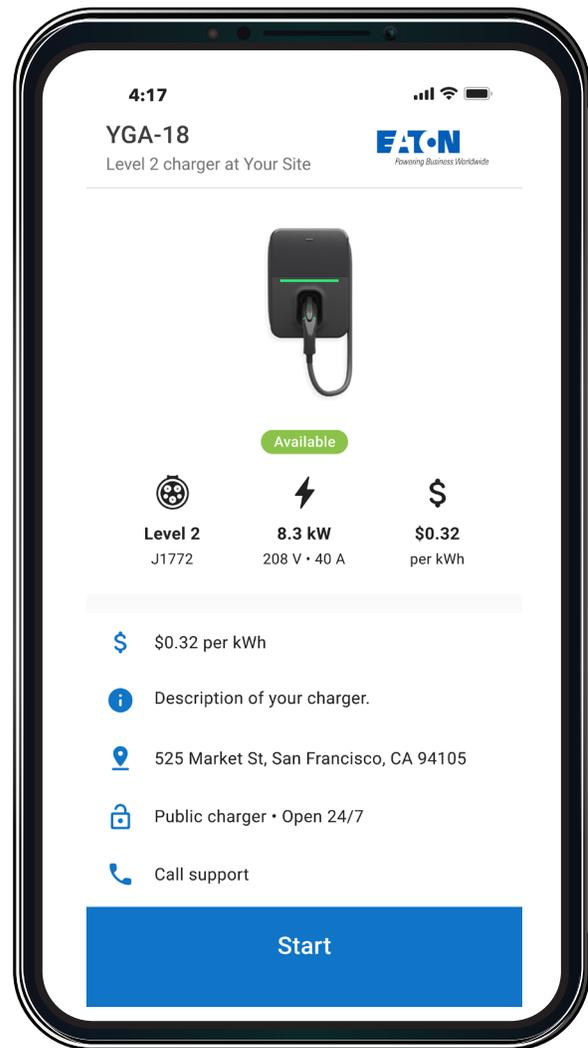
Payment processing

Payment processing enables the collection of payment from drivers for use of the charge stations without a need to set up personal or site-specific accounts. The Eaton CNM calculates tariffs based on usage, processes the payments against validated driver credit card accounts through a secure payment processor (Stripe), and remits net funds to the site host on a regularly scheduled basis.

Neither Eaton nor ChargeLab charges an additional fee for this payment processing service so the only fees that are deducted are those charged by the banks (usually on the order of 3% + \$0.30 per transaction).

OCPD network adapter

The Eaton CNM enables the connection and management of virtually any charge station whose communication conforms to the Open Charge Point Protocol (OCPP v1.6J) standard. OCPP is a published and freely available open standard that any EVSE manufacturer or network provider may adopt. This allows customers to mix and match hardware and network options and swap networks if desired so customers are never locked into a single hardware or network choice.



For more information please visit
Eaton.com/CNM

Eaton
1000 Eaton Boulevard
Cleveland, OH 44122
United States
Eaton.com

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PA193001EN / GG
February 2023



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