



OPCONNECT VERSION 1.03 iOS MOBILE APP FEATURE FUNCTIONALITY DOCUMENT

OpConnect, LLC
3030 SW 1st Ave
Portland, Oregon 97201
503-477-5203
www.opconnect.com

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Document Revision History

Date	Author	Description
7/12/2011	Adam Elston-Jones	Create document
9/12/2011	Adam Elston-Jones	Update for version 1.03

APPLICATION DESCRIPTION:SCREEN

The OpConnect smartphone application lets users locate electric vehicle charging stations through a searchable Google map with GPS capability. The map enables users to conveniently view the status and availability of all the charging stations near their current location. Once a charging station is selected, Google driving directions are offered. Also, stations can be saved to the user's favorites, allowing quick and easy access to the stations they use the most.

Additional features include viewing charging session and billing history, managing payment cards, and editing their profile for OpConnect members.

APPLICATION FUNCTIONALITY

LOCATE STATION

MAP VIEW



Navigate:

[Locate Station Tab]

Features:



: Refresh map by re-coloring the map pins to indicate the current status of the charging stations on the map.

Google Search Bar: Position the map at the location of a Google map search. If a search is performed, changing user location will not move the map.



: Position the map to the user location provided by the iOS GPS system.

- If the location service setting is turned off, this button will be disabled.
- If the button is disabled, turning location services on and re-entering the app will enable it.

Map Pin Annotation: Indicates that a charging station exists at the location of the map pin.

- **Green Map Pin:** Indicates the charging station at the location of the map pin is not in use.
- **Purple Map Pin:** Indicates the charging station at the location of the map pin has at least one receptacle in use.
- **Red Map Pin:** Indicates the charging station at the location of the map pin does not have open receptacles.
- **User Location Annotation:** Indicates the location of the iOS device.
 - If the location service setting is turned off the blue dot will not be displayed.
 - If the blue dot is not displayed, turn the location service setting on and re-enter the app.

Location Service Tab: Double tap to show the map view.

MAP PIN CALLOUT




Navigate:

[Locate Station Tab] → [Tap Map Pin]

Features:

Map Pin Callout: View charging station common name and call out button. There can be multiple stations at one map pin. View details to see the number of station at the location of the map pin.

-  **Callout Button:** Tap to view charging station details.

CHARGING STATION DETAIL VIEW





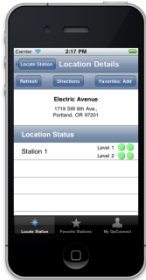
Navigate:

[Locate Station Tab] → [Tap Map Pin] → [Tap Callout Button]

Features:

Location Status List: Lists availability of all stations at this location. Level 1 means 120 volt receptacle and level 2 means 240 volt receptacle.

-  Green Indicator: Receptacle is open.
-  Red Indicator: Receptacle is in use.



Locate Station Navigation Button: Navigate back to the Locate Station view.

Get Directions In Browser Toolbar Button: Sends start and end coordinates to Google driving directions web service in the iOS web browser.

- If the location service setting is turned off, the starting location will need to be filled in after the jump to the browser. If the location service is turned off while the app is running, the starting location will be the last recorded user location.

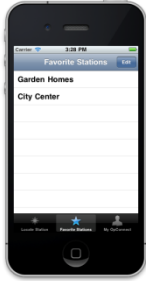
Refresh Status Toolbar Button: Refresh the status of all the charging stations.

Favorite button: Remove or add charging station location to favorites list.

Locate Station Tab Bar Button: Double tap to navigate back to the Locate Station view.

FAVORITES TAB

MAIN SCREEN



Navigate:
[Favorites Tab]

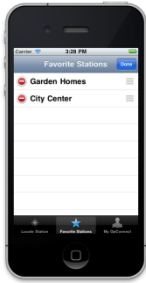
Features:

Edit Navigation Button: Allows Deletion and re-ordering of the favorites list.

Table Cell: Tap to view [Charging Station Details](#).

- Swipe Gesture on a table cell will allow a charging station to be deleted from the favorites list.

EDIT FAVORITES LIST




Navigate:
[Favorites Tab] → [Edit Navigation Button]

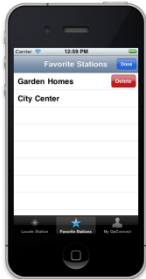
Features:

Delete: Remove charging station cell from favorites table.

-  **Delete:** Tap to delete charging station from favorites table.

Re-Order: Re-order cell in favorites table.

-  **Re-order:** Drag to re-order cell in favorites table.



MY OPCONNECT TAB

LOG IN VIEW



Navigate:

[My OpConnect Tab]

Features:

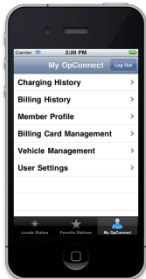
Log In Button: After user name and password is entered, access main menu.

- The log in button will be disabled until the user name and password are entered.

Create Account Button: Loads a web page in the device browser to create an OpConnect account.

Forgot Password Button: Loads a web page in the device browser to start the reset password process.

MAIN MENU



Navigate:

[My OpConnect Tab] → [Successful Log In]

Features:

Charging History Cell: Tap to view Charging History menu.

Billing History Cell: Tap to view Billing History menu.

Member Profile Cell: Tap to view Membership Profile menu.

Billing Card Management Cell: Tap to view Billing Card Management Menu.

Vehicle Management Cell: Tap to view Vehicle Management menu.

User Settings Cell: Tap to edit user settings.

Log Out Navigation Bar Button: Log out from the My OpConnect and get directed to the [log in view](#).

- Exiting the app will automatically log the user out.

EDIT PROFILE



Navigate:

[My OpConnect Tab] → [Successful Log In] → [Member Profile] → [Edit Navigation Bar Button]

Features:

View Profile Back Navigation Button: View Profile without saving any changes.

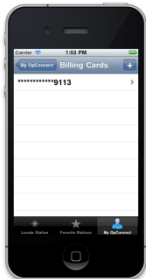
Save Navigation Button: Commit Changes

- Text fields are checked for valid data before the save is attempted.

Editing Text Fields:

- A description of what the text field expects will be populated in the navigation bar prompt area.

BILLING CARDS



Navigate:

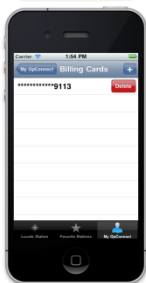
[My OpConnect Tab] → [Successful Log In] → [Billing Card Management]

Features:

My OpConnect Back Navigation Button: Navigate back to the [My OpConnect](#) Main Menu.

Add Billing Card Plus Navigation Button: Navigate to the [Add a Billing Card](#) view.

Delete Billing Card: A swipe gesture on a table cell will allow a card to be deleted from the user's account. The last payment card can't be deleted.



ADD BILLING CARD



Navigate:

[My OpConnect Tab] → [Successful Log In] → [Billing Card Management] → [Plus Navigation Button]

Features:

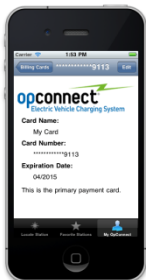
Billing Card Back Navigation Button: Go back to the [Billing Card](#) menu without committing the addition of a new payment card.

Save Navigation Button: Save the new payment card. Validation is done on all text fields before saving. If saving is successful, the [Billing Card](#) menu is presented.

Show Card Number Switch: Switches the card number text field from secure to not and vice versa.

Primary Card Switch: Sets the payment card as the primary card form billing. A previous primary card will be demoted.

BILLING CARD DETAILS



Navigate:

[My OpConnect Tab] → [Successful Log In] → [Billing Card Management] → [Tap Payment Card Cell]

Features:

Billing Cards Back Navigation Bar Button: Navigate back to the [Billing Cards Menu](#).

Edit Navigation Bar Button: Navigate to the [Edit Billing Card](#) View.

EDIT BILLING CARD



Navigate:

[My OpConnect Tab] → [Successful Log In] → [Billing Card Management] → [Tap Payment Card Cell] → [Edit Navigation Bar Button]

Features:

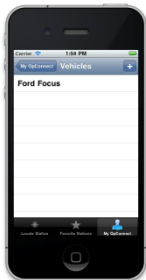
Primary Card Switch: Sets the payment card as the primary card form billing. A previous primary card will be demoted.

Back Navigation Bar Button: Navigate back to the [Billing Card Detail](#) view without saving.

Save Navigation Bar Button: Save changes to the billing card. Validation is done on the expiration date text field. If saving is successful, the [Billing Card Detail](#) view is presented.

Delete Card Button: Remove payment card from user's account. If deletion is successful, the [Billing Cards Menu](#) view is presented.

VEHICLE MANAGEMENT



Navigate:

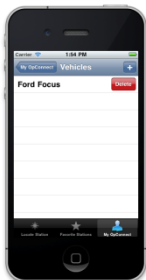
[My OpConnect Tab] → [Successful Log In] → [Vehicle Management]

Features:

Back Navigation Bar Button: Navigate back to the [My OpConnect Main Menu](#) view without saving.

Add Vehicle Plus Navigation Button: Navigate to the [Add Vehicle](#) view.

Delete Billing Card: A swipe gesture on a table cell will allow a vehicle to be deleted from the user's account.



ADD VEHICLE



Navigate:

[My OpConnect Tab] → [Successful Log In] → [Vehicle Management] → [Add Vehicle Plus Navigation Button]

Features:

Save Navigation Bar Button: Add Vehicle to user's account. If successful, the [Vehicle Management](#) view is presented.

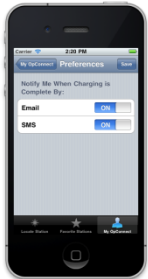
Back Navigation Bar Button: Navigate back to the [Vehicle Management](#) menu without saving.

Make Text Field: Tap text field to show picker view. Select make to populate and enable the model text field.

Model Text Field: Once the make text field is populated. The model text field can be populated in the same fashion as the make text field.



USER SETTINGS



Navigate:

[My OpConnect Tab] → [Successful Log In] → [User Settings]

Features:

Save Navigation Bar Button: Save Changes.

Back Navigation Bar Button: Navigate back to the My OpConnect menu.

Email: If on, user will receive email when a charging session has been completed.

SMS: If on, and SMS information is entered in the user's profile, an SMS message can be sent to the user when a charging session has been completed.