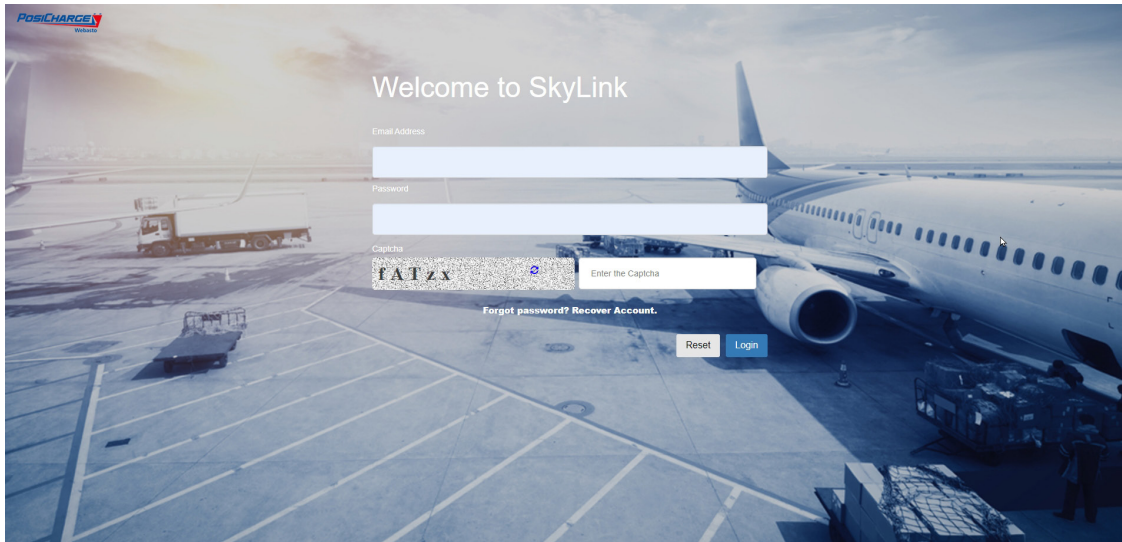


SkyLink – Cloud Connection User Guide



Rev 09/2023

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1 – INTRODUCTION

Posicharge SkyLink is an easy way for airport personnel to manage and measure energy use. The cloud-based business intelligence platform helps you protect your energy investments all in one place.

SkyLink manages all your charging systems in one, simple, and user-friendly interface that lets you know immediately when interventions should be made with the following features.

- Energy consumption and billing reports
- Charger access control
- Asset management status and reporting
- Battery management and reporting
- Power management reporting and controls

1.1 – Hardware Specifications

Hardware	Specifications
Ethernet	100 Mbps, RJ45 connector
Onboard memory	32G of disk space
Temperature settings	– 40°C to 60°C
Wi-Fi connectivity	802.11 b/g/n

1.2 – Acronyms, Abbreviations & Symbols

Acronym or Abbreviation	Meaning
App	Application
b/g/n	Wi-Fi Technologies
BMID	Battery Monitor & Identifier
CEC	California Energy Commission
CRUD	Create, Read, Update & Delete
G	Gigabyte(s)
ID	Identification
IoT	Internet of Things
kWh	Kilowatt Hour(s)
Mbps	Megabits per Second

Wi-Fi	Name of a wireless networking technology that uses radio waves to provide high-speed network and Internet connections ¹ Wireless local area network (WLAN) products based on the Institute of Electrical and Electronics Engineers (IEEE) 802.11 standards ²
°C	Degrees Celsius

1 “Wi-Fi Definition is Not Wireless Fidelity,”
Vangie Beal; July 14, 2020

2 Wi-Fi Alliance, the organization that owns the Wi-Fi (registered trademark) term (ibid).

2 – USER TYPES, USER CONTROL LEVELS, AND USER ACCESS LEVELS

2.1 – User Types and User Control Levels

Airport Admin, Airport Management, Airport Installer, and General User are the four main user types recognized by SkyLink. Each user type has levels of control.

Airport Admin User	Airport Mgmt User	General User	Airport Installer
<p>This user can view and edit aspects of the airport charging functions.</p> <ul style="list-style-type: none"> Add/remove airline profiles Add/remove location (facility/terminal) names Add/remove user profiles Add/remove vehicle IDs Authorize/de-authorize assets Export data 	<p>This user can view all aspects of the airport charging functions.</p> <ul style="list-style-type: none"> View airline profiles/location (facility/terminal) names View user profiles and login history View pending asset information Export Data 	<p>This user can view minimal aspects of the airport charging functions.</p> <ul style="list-style-type: none"> View energy usage View the Charger Management window View the Asset Management window View the Rate Management window Export data 	<p>This user can view only the Charger Management window.</p> <ul style="list-style-type: none"> Set up and install local chargers

2.2 – User Access Levels

Each user type has levels of access.

Windows/Functionalities	Airport Admin User	Airport Management User	General User	Installer
Charger Status Summary	TRUE	TRUE	TRUE	X
Port Usage Summary	TRUE	TRUE	X	X
Energy Usage Summary	TRUE	TRUE	TRUE	X
Alert Report	TRUE	TRUE	X	X
Client / Airline / Location Management	TRUE	View option only	X	X
User Management	CRUD–Airport Admin, Airport Management, and General Users	View option only	X	X
Charger Management	TRUE	TRUE	X	View option only
Client Asset Management	TRUE	TRUE	TRUE	X
Rate Management	TRUE	TRUE	TRUE	X
Export	TRUE	TRUE	TRUE	X
Local Charger Setup	X	X	X	TRUE

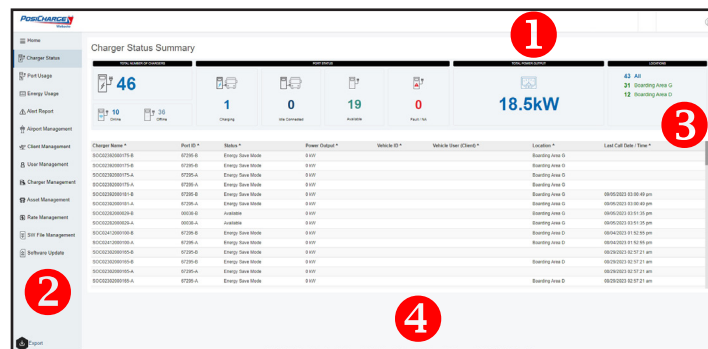
3 – WEB PORTAL

3.1 – Login Window


Accessing SkyLink is as easy as supplying the interface with a username and password. Simply go to the web application and log in. The main dashboard is displayed after successful login completion.



3.2 – Landing Window Overview – Charger Status Summary

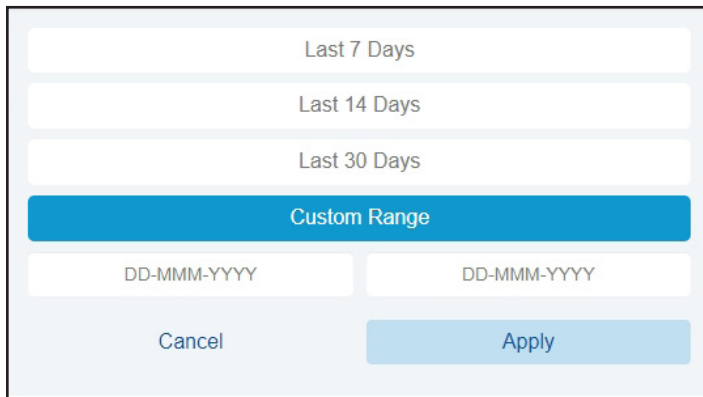


The landing window (Charger Status Summary) features a system overview, which is composed of four sections and an Export button.

1	Header Navigation Menu	Allows users to change their password, log out, and view current alerts
2	Left-Pane Navigation Menu	Gives access to the primary functions that SkyLink offers such as: Charger status, port usage, energy usage, alert report, client management, user management, charger management, asset management, and rate management
3	Main Dashboard	Provides a general summary divided into four components such as: Total number of chargers, port status, total power output, and locations (facilities / terminals)
	Total Number of Chargers	Shows the total number of chargers that are online and offline
	Port Status	Shows how many ports are currently charging, how many ports are connected but not charging (idle charging), how many ports are available for charging, and how many chargers are currently at fault
	Total Power Output	Reveals the total power output
	Locations	Shows the location (facility/terminal) of the chargers being used
4	Chargers List	Shows a detailed list of all chargers configured for SkyLink
	Export Button	Exports the page data into an excel file

3.3 – Date Range Selector

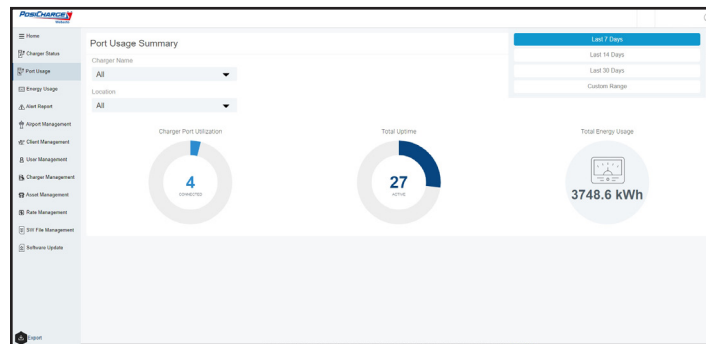
This component allows users to set the date range for the information they want to view. This component is featured within the main dashboard of the Port Usage, Energy Usage, and Alert Report sections.



The Date Range Selector is a vertical stack of UI elements. At the top are three light blue buttons labeled "Last 7 Days", "Last 14 Days", and "Last 30 Days". Below these is a prominent blue button labeled "Custom Range". Under the "Custom Range" button are two white input fields with the placeholder text "DD-MMM-YYYY". At the bottom are two buttons: a light blue "Cancel" button on the left and a blue "Apply" button on the right.

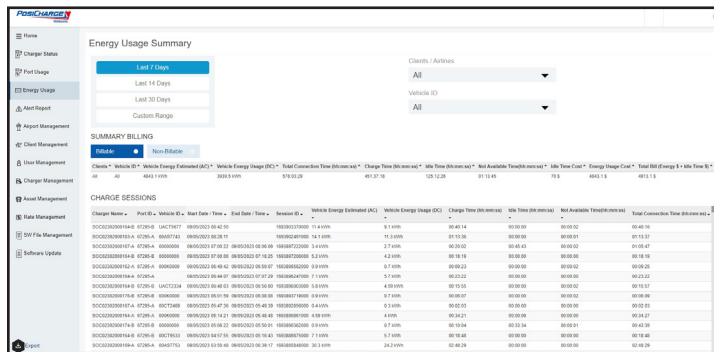
3.4 – Port Usage

By default, this section displays the total energy used by all the ports. Users can filter their search queries by selecting a date range or by specifying a charger name with a location (facility / terminal).



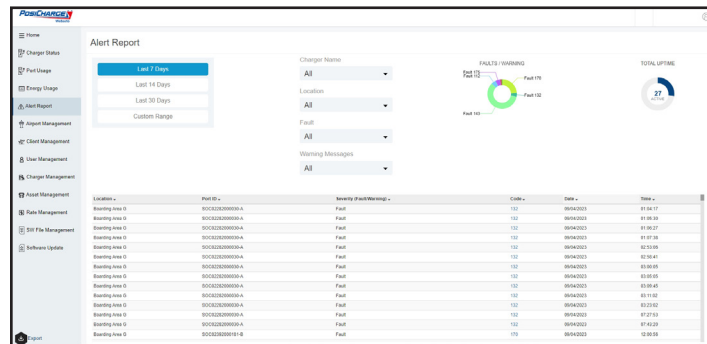
3.5 – Energy Usage

This section calculates the total amount of kilowatt hours used by each vehicle and determines the cost of use. Users can filter their searches by date range, client name, and vehicle ID, as well as separate their results into billable and nonbillable lists.



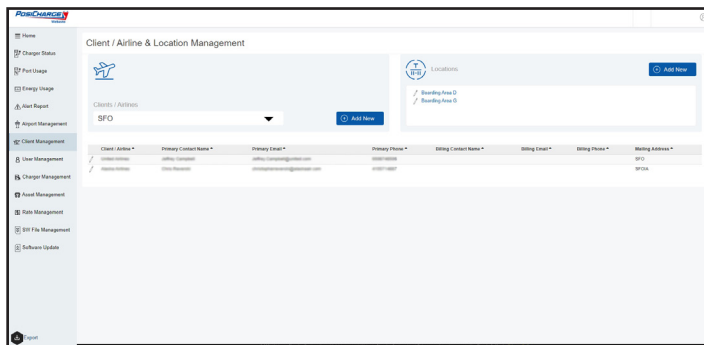
3.6 – Alert Report

This section provides a summary of triggered faults that occurred within the last seven days. Users can filter and specify the alerts they want to view by date range, charger name, location (facility / terminal), fault type, and warning messages.



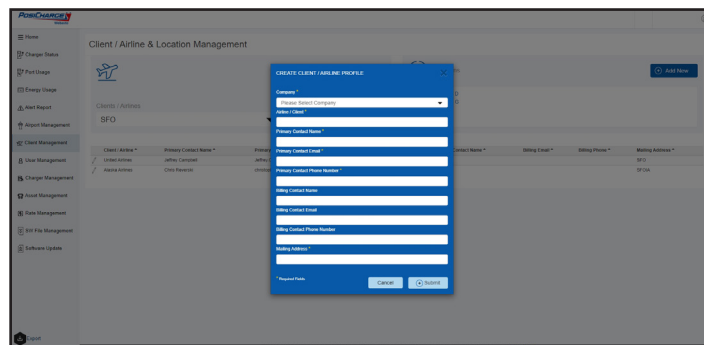
3.7 – Client Management

This section manages client contact information for billing and communication needs. The user can add, edit, and remove client information in this section.



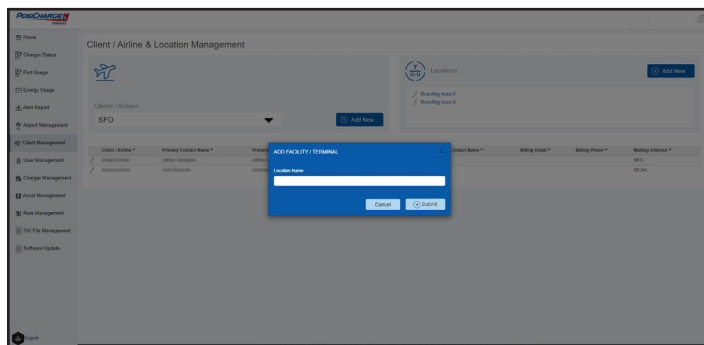
Adding a New Client

Simply press the **Add New** button, located within the Clients / Airlines component, to add a new client to the list. The Add New button triggers the pop-up form overlay Create Client/Airline Profile. Fill out the form and press the **Submit** button located in the lower-right corner of the form overlay.



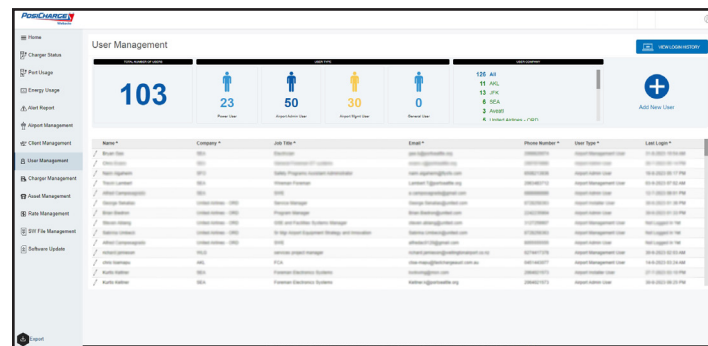
Adding New Location Names

Adding new location (facility/terminal) names to the system is just as easy. Press the **Add New** button, located within the Locations summary component, to add a new location (facility/terminal) name to the list. The location name, once submitted, should appear on the list in the Locations summary component.



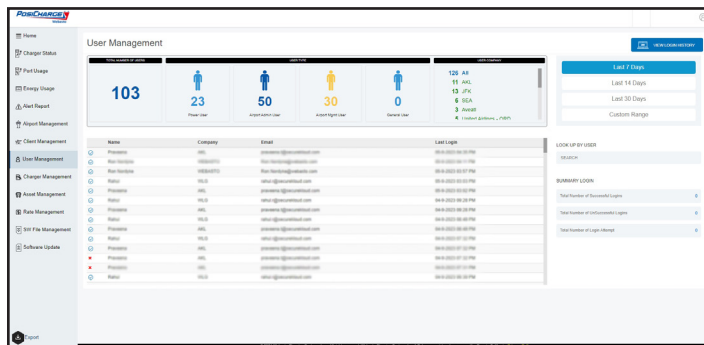
3.8 – User Management

This window displays the total number of users, user details, and login history; accounts for every user type; distinguishes users by affiliated company; and allows adding users.



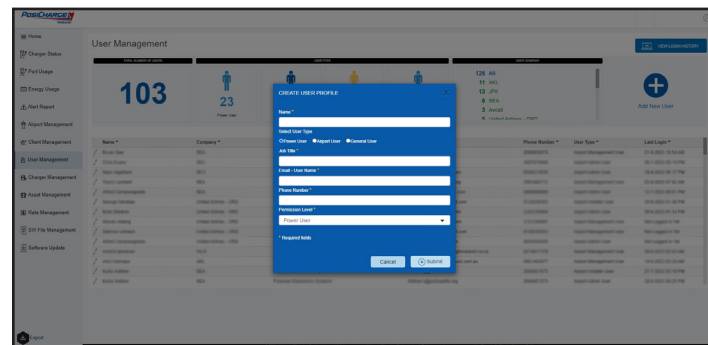
Viewing the Login History

Simply press the **View Login History** button to view a record of users logging into the app. Use the date range function to select a period of time you want to evaluate. Users can filter the queries by searching for a specific user name. The login summary component within the login history shows the total number of successful logins, the total number of unsuccessful logins, and the total number of login attempts.



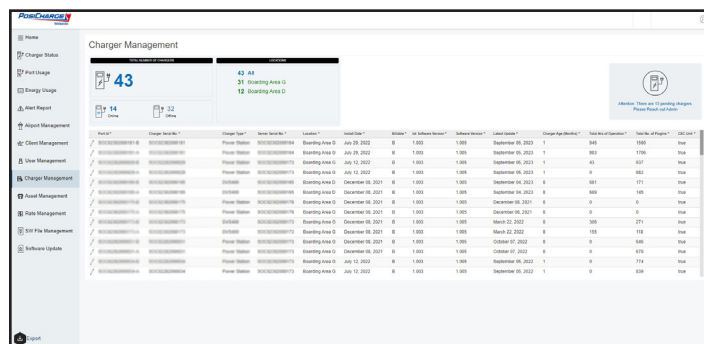
Adding a New User Profile

Press the **Add New User Plus (+)** button to add a new user profile. The pop-up overlay form Create User Profile is displayed. Make sure to fill out the required fields, and press the **Submit** button located in the lower right corner of the form overlay.



3.9 – Charger Management

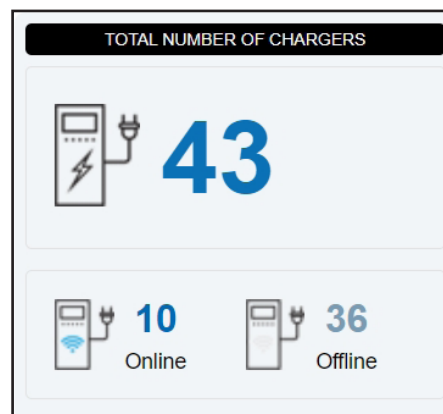
The Charger Management window provides a general summary of the total number of chargers and charger locations. A list of all configured chargers is displayed below the Total number of Chargers summary component and the Locations summary component.



ID	Name	Location	Status	Last Update
00000000000000000000000000000000	Charger Station 1	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 2	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 3	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 4	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 5	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 6	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 7	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 8	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 9	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 10	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 11	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 12	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 13	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 14	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 15	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 16	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 17	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 18	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 19	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 20	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 21	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 22	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 23	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 24	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 25	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 26	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 27	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 28	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 29	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 30	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 31	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 32	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 33	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 34	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 35	Boasting Area D	Online	September 09, 2023
00000000000000000000000000000000	Charger Station 36	Boasting Area D	Online	September 09, 2023

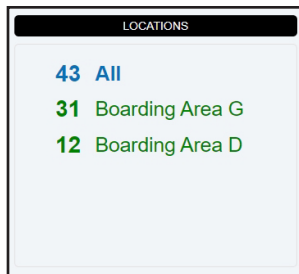
Total Number of Chargers

The Total Number of Chargers summary component displays the total number of chargers configured within the system, and determines how many are online and offline.



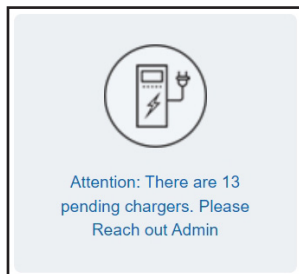
Locations

The Locations summary component displays the total amount of chargers and the number of activated chargers at each location (facility/terminal).



Attention

The Attention component alerts users as to whether or not there are pending chargers available.



Connected Chargers List

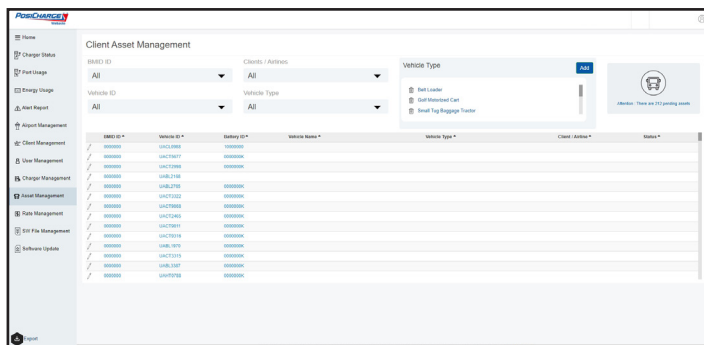
All the connected chargers are listed below the summary components by port ID#, charger type, server serial number, location ID, identifying billable and nonbillable instances, IoT software version, latest software update, charger age, total hours of operation, total number of plugins, and CEC unit type.

[illegible]

Refer to section 4.3 for instructions on editing this list.

3.10 – Asset Management

The Client Asset Management section allows the user to filter, search, and locate configured client assets (system-registered vehicles).



As shown in the illustration in the left column, the list of system-registered vehicles can be filtered by BMID ID, vehicle ID, battery ID, client / airline, and vehicle type. Users also can add new vehicle types.

BMID ID

Select a BMID ID from the respective component drop-down menu to filter the list of system-registered vehicles by BMID ID.

Vehicle ID

Select a vehicle ID from the respective component drop-down menu to filter the list of system-registered vehicles by vehicle ID.

Battery ID

Filter the list of system-registered vehicles by battery ID from the Battery ID heading on the list.

Clients / Airlines

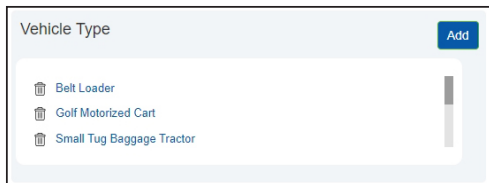
Select a client/airline name from the respective component drop-down menu to filter the list of system-registered vehicles by client/airline.

Vehicle Type

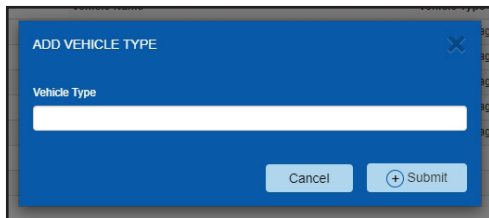
Select a vehicle type from the respective component drop-down menu to filter the list of system-registered vehicles by vehicle type.

Adding a Vehicle Type

Simply press the **Add** button located in the upper right corner of the Vehicle Type component to add a vehicle type.



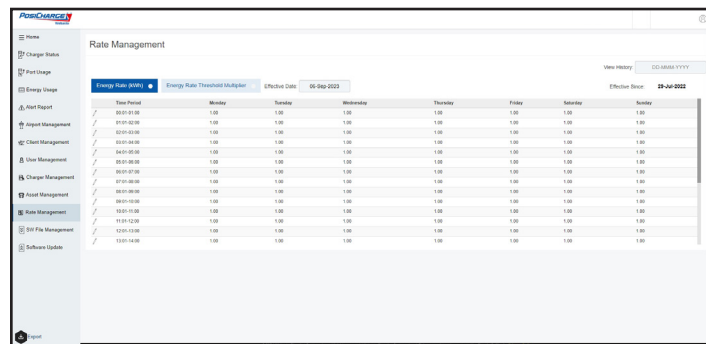
The Add Vehicle Type pop-up overlay is displayed. Type the vehicle type in the text box, and press the Submit button.



The added vehicle type should be displayed on the Vehicle Type component list.

3.11 – Rate Management

The rate management section is used to account for the energy rate (kWh) at different points in time. Energy rates also can fluctuate throughout the week. This section is used to manage the variances in the cost of energy and assign those changes to the client.



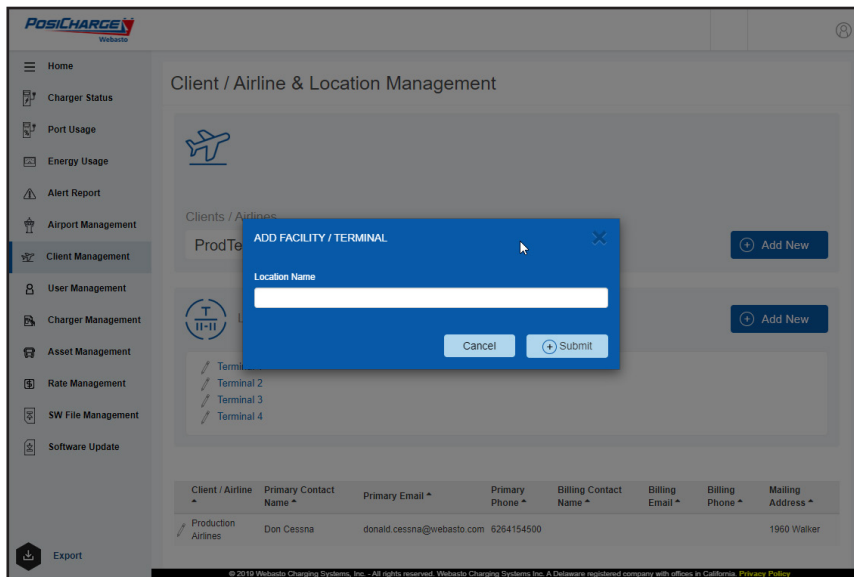
Time Period	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
00:01-01:00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
01:01-02:00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
02:01-03:00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
03:01-04:00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
04:01-05:00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
05:01-06:00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
06:01-07:00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
07:01-08:00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
08:01-09:00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
09:01-10:00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
10:01-11:00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
11:01-12:00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
12:01-13:00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
13:01-14:00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

4 – WORKFLOWS

This section contains workflow instructions for common tasks performed in SkyLink.

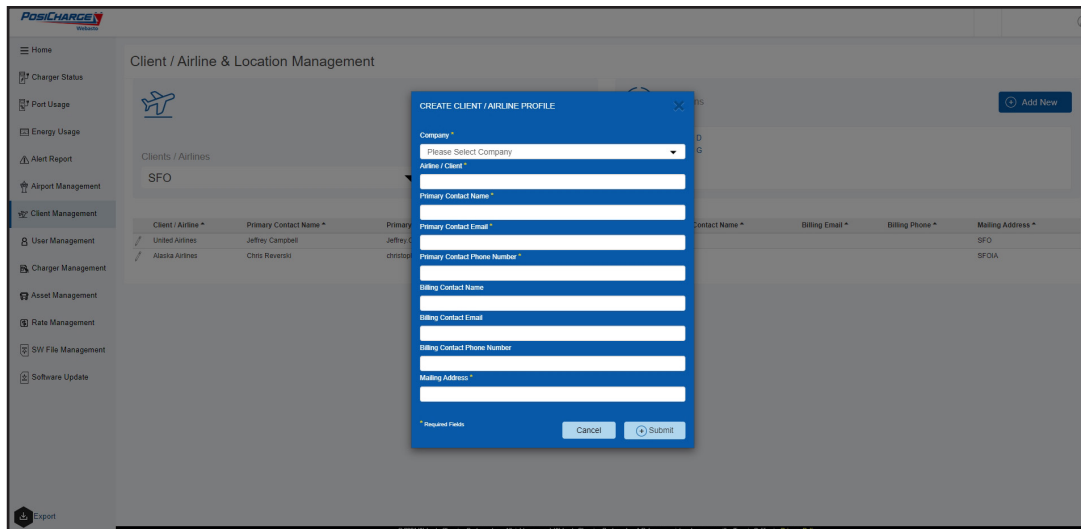
4.1 – Adding New Locations

1. Press the **Add New** button located in the upper-right corner of the Locations summary component on the main dashboard to add a new location (facility / terminal) name.
2. The Add Facility / Terminal pop-up form overlay is displayed.
3. Type the location name in the text field and press the Submit button to enter the location (facility / terminal) name into the system.



4.2 – Adding New Client Profiles

1. Select the **Client Management** section.
2. Press the **Add New** button located in the lower-right corner of the Clients / Airlines component on the main dashboard to add a new client profile.
3. Be sure to fill out all the required fields and press the **Submit** button to enter the new data into the system.



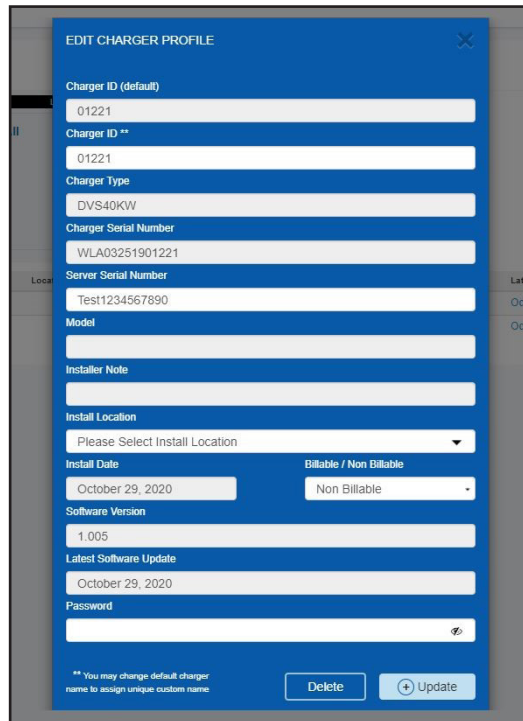
The screenshot displays the 'Client / Airline & Location Management' section of the SkyLink interface. A modal form titled 'CREATE CLIENT / AIRLINE PROFILE' is open, overlaying a table of existing clients. The modal contains the following fields:

- Company * (Dropdown menu: Please Select Company)
- Airline / Client * (Text input)
- Primary Contact Name * (Text input)
- Primary Contact Email * (Text input)
- Primary Contact Phone Number * (Text input)
- Billing Contact Name (Text input)
- Billing Contact Email (Text input)
- Billing Contact Phone Number (Text input)
- Mailing Address * (Text input)

At the bottom of the modal, there is a 'Cancel' button and a 'Submit' button. A small asterisk (*) indicates required fields. The background table lists clients with columns for Client / Airline, Primary Contact Name, Primary Contact Email, Billing Email, Billing Phone, and Mailing Address. The 'Add New' button is visible in the top right corner of the main section.

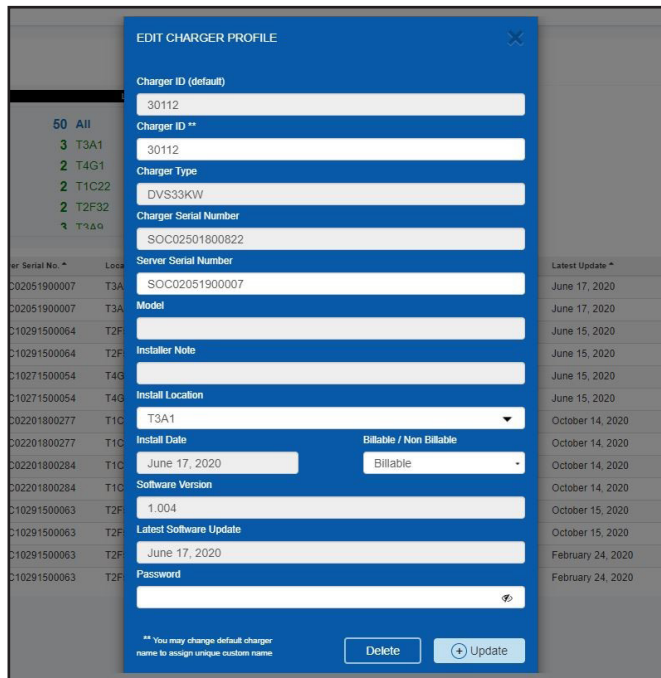
4.3 – Configure a New Charger Profile

1. Select the **Charger Management** section.
2. Press the **Pencil** icon located on the left of the newly installed charger entry, which shows as blue, to be configured (edited). The Edit Charger Profile form overlay is displayed.
3. Edit the required information for the newly installed charger. Simply press the **Pencil** icon, located to the left of each row, to edit the list of connected chargers (section 3.9). A pop-up form overlay will be displayed. Updates / changes to the row information can be saved by pressing the **Update** button located in the lower right corner of the form overlay.



4.4 – Editing a Charger Profile

1. Select the Charger Management section.
2. Press the Pencil icon located on the left of the charger information entry to be edited.
3. The Edit Charger Profile pop-up form overlay is displayed, and edits can be made to the selected data.
4. Press the **Update** button to finalize the changes.



Charger Serial No. *	Location	Latest Update *
202051900007	T3A	June 17, 2020
202051900007	T3A	June 17, 2020
210291500064	T2F	June 15, 2020
210291500064	T2F	June 15, 2020
210271500054	T4G	June 15, 2020
210271500054	T4G	June 15, 2020
222201800277	T1C	October 14, 2020
222201800277	T1C	October 14, 2020
222201800284	T1C	October 14, 2020
210291500063	T2F	October 15, 2020
210291500063	T2F	October 15, 2020
210291500063	T2F	February 24, 2020
210291500063	T2F	February 24, 2020

4.5 – Configuring a New Asset Profile

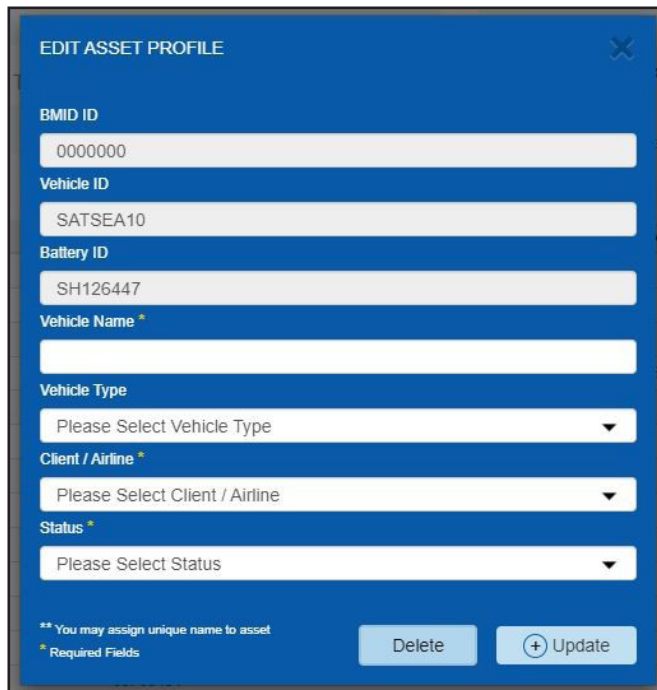


NOTE

Asset (vehicle) profiles are initially added to the system when the vehicles are connected to the charger and the charger consequently identifies them.

(The system will not display vehicle information until the vehicles are connected to the charger.) Users, furthermore, can commission, register, manipulate, and update vehicle information after a charge event (but not before).

1. Select the **Asset Management** section.
2. Press the **Pencil icon** located on the left of the vehicle (asset) profile to be edited (configured). The Edit Asset Profile pop-up form overlay is displayed.
3. Update the asset information in the form fields, and press the **Update** button to finalize the changes made.



EDIT ASSET PROFILE

BMID ID
0000000

Vehicle ID
SATSEA10

Battery ID
SH126447

Vehicle Name *

Vehicle Type
Please Select Vehicle Type

Client / Airline *
Please Select Client / Airline

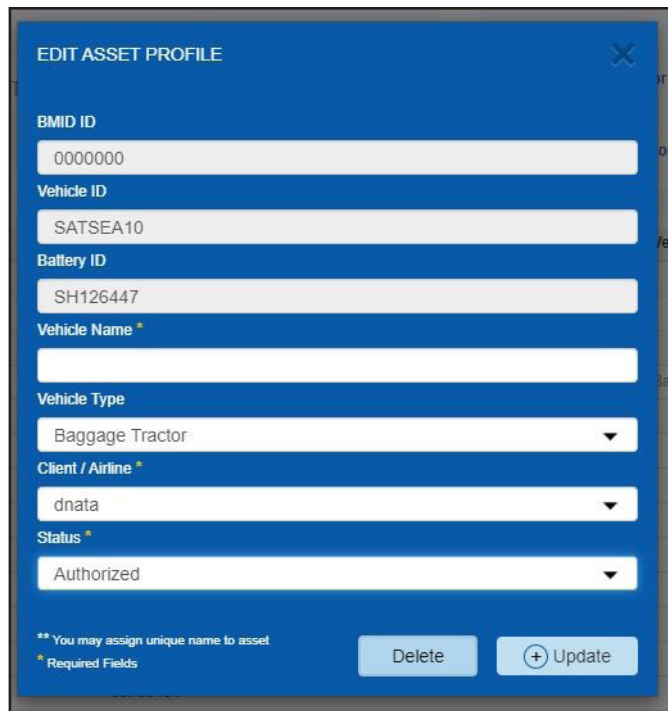
Status *
Please Select Status

** You may assign unique name to asset
* Required Fields

Delete Update

4.6 – Editing an Asset Profile

1. Select the **Asset Management** section.
2. Press the **Pencil icon** located on the left of the vehicle (asset) entry to be edited. The Edit Asset Profile pop-up form overlay is displayed.
3. Update the asset information in the form fields, and press the **Update** button to finalize the changes made.



EDIT ASSET PROFILE

BMID ID
0000000

Vehicle ID
SATSEA10

Battery ID
SH126447

Vehicle Name *

Vehicle Type
Baggage Tractor

Client / Airline *
dnata

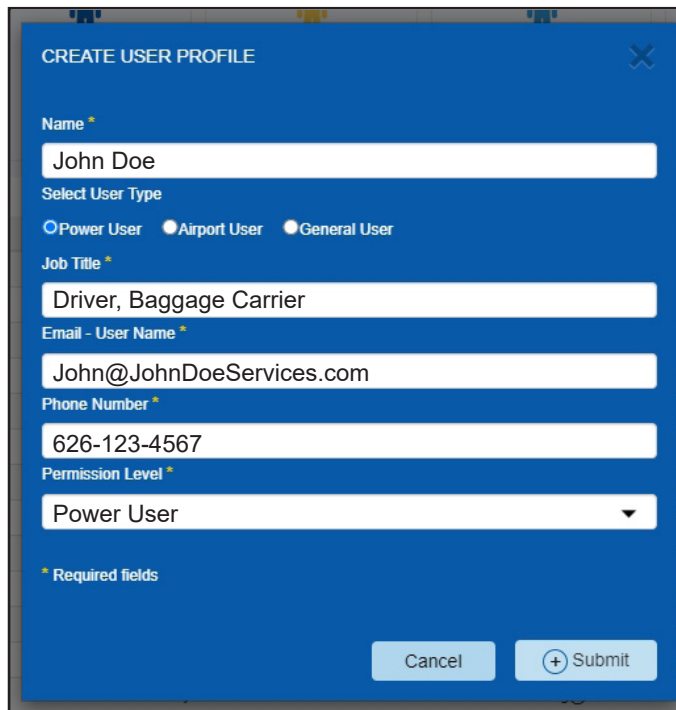
Status *
Authorized

** You may assign unique name to asset
* Required Fields

Delete + Update

4.7 – Adding a New User Profile

1. Select the **User Management** section.
2. Press the **Add New User** button located on the right side of the summary components on the main dashboard. The Create User Profile pop-up form overlay is displayed.
3. Be sure to fill out all the required fields, and press the **Submit** button to add the new user profile.



CREATE USER PROFILE

Name *

John Doe

Select User Type

☐ Power User ☒ Airport User ☐ General User

Job Title *

Driver, Baggage Carrier

Email - User Name *

John@JohnDoeServices.com

Phone Number *

626-123-4567

Permission Level *

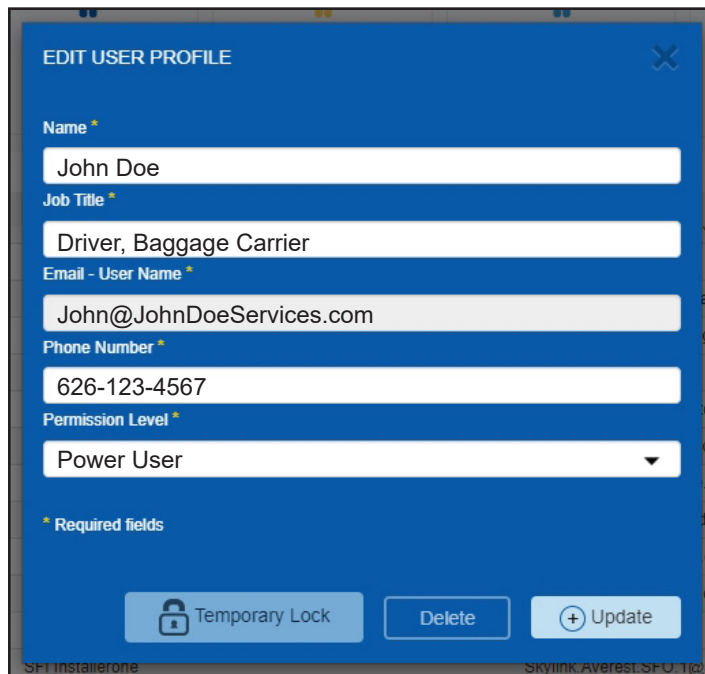
Power User

* Required fields

Cancel Submit

4.8 – Editing a User Profile

1. Select the **User Management** section.
2. Press the **Pencil** icon located on the left of the entry to administer edits. The Edit User Profile pop-up form overlay is displayed.
3. Make the necessary edits and press the **Update** button to finalize the changes made.



EDIT USER PROFILE

Name *
John Doe

Job Title *
Driver, Baggage Carrier

Email - User Name *
John@JohnDoeServices.com

Phone Number *
626-123-4567

Permission Level *
Power User

* Required fields

Temporary Lock Delete Update

SPT InstallerOne Skylink.Averest.SFO.103

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These original instructions are written in English, which is the binding language.
Instructions written in your preferred language can be requested if they are missing.

The phone number of the Webasto representative in your country can be found in the Webasto service center brochure or at the Webasto website of your country.

Estas instrucciones originales están escritas en inglés, que es el idioma vinculante. Se pueden solicitar instrucciones escritas en su idioma preferido si faltan.

El número de teléfono del representante de Webasto en su país se puede encontrar en el folleto del centro de servicio de Webasto o en el sitio web de Webasto de su país.

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