ChargePoint Web Services API Programmer's Guide

ChargePoint Web Services API Version 5.1

Document Part Number: 75-001102-01

Document Revision: 1.13

Revision Date: 2023-11-7

1 Introducing ChargePoint Web Services

1.1 What's New in This Release

1.1.1 New Fleet Management Methods – Manage Fleet Vehicles

Several fleet vehicle management APIs like **addFleetVehicle**, **deleteFleetVehicle**, **updateFleetVehicle,** and **getFleetVehicles** have been added, which allow partners with fleet charging. The customers can also retrieve usage data with **getFleetVehicleUsageData**.

1.1.2 New Demand Response Event Methods – Manage Load Shedding Event

A new method, **createLoadShedEvent**, has been added to allow partners to create load shedding events programmatically. The **removeLoadShedEvent** can be used to remove an existing load shed event. These methods are intended for Home Utility Program Customers.

1.1.3 New Parameters in getStations Method

The **getStations** Station Management API now includes additional parameters like *siteValidated, siteValidationDate, wanIpAddress, networkStatus, stationFirmware, stationReception,* and *radioGroupID* in the response.

1.1.4 New Parameter in getLoad Method

The **getLoad** Demand Management API now includes *sessionID* parameter that can be used to retrieve load and shed states for a station or a station group. Additionally, the **getLoad** response includes *lastBatteryPercent* parameter, which is the latest Battery percentage of the vehicle connected to a port.

1.1.5 New Parameters in getChargingSessionData Method

The **getChargingSessionData** Usage Analysis API now allows getting active sessions data using the *activeSessionsOnly* parameter. Additionally, the **getChargingSessionData** includes *vehicleID, driverOptedOut, driverOptOutTimestamp* parameters.

1.1.6 New Parameters in getUsers Method

The **getUsers** Driver Management API, which can be used to get a list of connected and managed drivers, will include additional station data like *homeStationDetails, stationSerialNumber, stationStatus, stationMACAddress,* and *stationActivationDate* in the response.

1.2 Overview

Using the network's Web Services API, any hardware supplier can add to the growing portfolio of onDemand software applications that administer charging stations connected to the network. Navigating to the nearest available station, determining a station's availability, monitoring and reporting usage, viewing and clearing alarms, configuring advertisements, creating pricing and payment options are just a few examples of the services provided by ChargePoint that you can access using the API.

Note that ISO 8601 date time format YYYY-MM-DDTHH:MM:SSZ in UTC is used throughout unless otherwise specified.

2 Accessing the ChargePoint Web Services API

2.1 WSDL File and SOAP Endpoint

To get started, download the ChargePoint Web Services API Version 5.1 **WSDL File**, and import it into your favorite SOAP / XML / Web Services development environment to get the definitions of every method and property in the API. The client application that you create must send SOAP messages via HTTPS POST to the ChargePoint Web Services API Version 5.1 **SOAP Endpoint**.

- WSDL File: https://webservices.chargepoint.com/cp_api_5.1.wsdl
- SOAP Endpoint:
  - NA PROD - https://webservices.chargepoint.com/webservices/chargepoint/services/5.1
  - NA QA - https://webservices.ev-chargepoint.com/webservices/chargepoint/services/5.1
  - EU PROD - https://webservices-eu.chargepoint.com/webservices/chargepoint/services/5.1
  - EU QA - https://webservices-eu.ev-chargepoint.com/webservices/chargepoint/services/5.1
  - CA PROD - https://webservices-ca.chargepoint.com/webservices/chargepoint/services/5.1

2.2 Obtaining an API License Key and Password

To access the ChargePoint Web Services API, you will require a License Key, Password and a ChargePoint account. To find your API License Key and API Password, follow these steps:

1. Log into ChargePoint with either a Network Manager or API user account.
2. Click the Organizations tab, and then click the API Info sub-tab.
3. Find your API License Key in the table.
4. Mouse over your API License Key, and select Generate Password from the pop-up menu.
5. Save the API License Key and API Password values for making calls to the ChargePoint Web Services API.

2.3 Web Service Security

The ChargePoint Web Services API uses WS-Security to authenticate the account making the SOAP request. The WS-Security information must be provided in the SOAP Header section of every message sent to the ChargePoint Web Service SOAP Endpoint as shown in the example header below.

Key	Description	Required/ Optional	Type
Username	Username is the API License Key This key may be obtained by logging into your ChargePoint account. For instructions, see section 2.2.	Required	String
Password	Password is the API Password for your ChargePoint account The API Password may be obtained by logging into your ChargePoint account. For instructions, see section 2.2.	Required	String

2.4 Example SOAP Header

Note that sometimes copying and pasting the example SOAP Header below may result in errors with some development environments. Please be sure to validate the following attributes in the SOAP Header that the application sends to the ChargePoint Web Services API.

Element	Attribute	Value
Header	wsse	http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd
Security	mustUnderstand	1
Password	Type	http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-token-profile-1.0#PasswordText

```
<SOAP-ENV:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-secext-1.0.xsd">
 <wsse:Security SOAP-ENV:mustUnderstand="1">
  <wsse:UsernameToken>
<wsse:Username>0123456789abcdef0123456789abcdef0123456789abcdef0123456</wsse:Username>
   <wsse:Password
Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-token-profile-
1.0#PasswordText">0123456789abcdef0123456789abcdef</wsse:Password>
   </wsse:UsernameToken>
 </wsse:Security>
</SOAP-ENV:Header>
```

2.5 Common Response Parameters

All responses of the ChargePoint Web Services API contain the following parameters.

Parameter	Description	Type
responseCode	Code indicating success or failure for the API call See list of response codes in section 3.	String
responseText	If an error occurs, this field contains a description of the error. If no error occurred, this field will be blank.	String

3 Response Codes

The response to all API calls includes a response code, which describes the success or failure of the call. You must interpret this code to make appropriate decisions regarding the success or failure of a call, and to present meaningful user interface feedback to drivers.

100 API input request executed successfully

101 You are not authorized to access this API call, because your ChargePoint Network Service Plan does not let you run this call. Please contact ChargePoint Customer Support to upgrade your Service Plan.

102 No station found for given criteria

103 This station information does not exist in the ChargePoint database

104 Invalid email/password

105 ChargePoint card was not activated. Please activate card.

106 Invalid future date. Provide valid future date.

107 Invalid duration. Provide valid duration.

108 Invalid account handle. Please try again.

109 Station not available

110 Invalid serial number

111 Free users cannot make a reservation on paid stations (stations on which price is applied)

112 Station cannot be reserved at this moment. Please try again later.

113 Invalid reservation handle

114 Reservation cannot be cancelled. Cancellation interval time has expired.

115 Station is unreachable OR maintenance is required at the moment. Please try again later.

116 Reservation has been previously cancelled

117 You can not cancel reservation made by others

118 Address and Lat/Long provided do not match

119 Invalid station ID

120 No station group found

121 Provide a valid station group ID

122 No station found in this station group

123 Invalid shed percentage

124 Invalid time interval

125 You must provide your station group only

126 Cannot shed load now

127 Cannot restore load now

128 This station is not reservable

129 This station group ID is not in the ChargePoint database

130 Invalid value. Please enter a value greater than zero.

131 Stations are not within your ownership or rights realm

132 Invalid session ID

133 Sessions are not within your ownership or rights realm

134 No 15 min data found for this session

135 Invalid fields

136 No charging session data found for given criteria

137 Unable to cancel the existing reservation at this moment. Station-Server communication may be broken. Please try again later.

138 Cannot modify reservation at the moment. Please try again later.

139 Only one wildcard search allowed per day

140 Please provide a valid group code (sgCode)

141 Invalid dates

142 Start date cannot be greater than end date

143 An unknown error has occurred. Please try again later.

144 Free user cannot modify reservation on paid stations

145 You cannot retrieve details of reservation made by others

146 You cannot modify reservation made by others

147 Invalid ChargePoint card

148 No reservation found

149 Please provide valid organization details

150 Please provide a valid station name

151 Please provide a valid past date

152 Station ID is not in correct format

153 Alarms not found

154 Please provide a valid custom group ID

155 Please provide a valid custom group name

156 Custom groups not found

158 Organization ID is not in correct format

159 Please provide valid organization ID

160 No data found for given criteria

166 Please provide <startTime>, <Duration>, <energyRequired>, <vehiclePower>

167 Please provide a valid <stationRightsProfile>

168 Please provide a valid event name

169 No Station found for given criteria

170 Please provide a valid subscriber ID

171 Invalid Parameters <ParamName>, <ParamName>, <ParamName>

172 Please provide all the mandatory fields to make this call

173 Please provide either <allowedLoad> or <percentShed>

174 Please provide a parameter less than or equal to 100 while shedding load using <percentShed>

175 Shedding failed, because some of the station(s) in this group do not support shedding via absolute load method

176 Shedding failed, station does not support <allowedLoad> feature

177 Allowed load cannot be more than X. X can be maximum allowed load while shedding load based on absolute value

178 The selected organization is not within your ownership or rights realm

179 Another type of shed is already in progress. Please restore load and then apply new shed.

180 No user found

181 Use same shed method for each port

182 Search by either station group ID <sgID> or station ID <stationID>

183 Port information is missing

184 Enter either station group ID <sgID> or station ID <stationID>

185 Per port shed not supported on this station

186 Invalid number of ports specified in the request

187 Shed at either the group level or the station level, but not both

188 Operation not found

189 The value of <numStations> exceeded the maximum of <MaximumPageSize>

190 Invalid user ID

191 User ID request not found

192 Connection already <Rejected|Approved> for this driver

194 Both single station ID and multiple station IDs search are not permitted. Please use either option.

195 The user with user ID <userID> is not plugged in at this port on this station <stationID> port <portNumber>

196 Transaction from date cannot be greater than to date

197 Provide both to and from transaction dates

198 Max transactions value cannot exceed 500

199 Please shed either at group, station, or port level

200 Please provide either parameter from allowedLoadPerStation, percentShedPerStation or ports

201 No transaction found

202 Shed load is not allowed on the station that has panel sharing enabled.

4 Common API

The Common API includes function calls that can be accessed by all users.

Summary of Common API calls:

- getCPNInstances

4.1 getCPNInstances

Use this call to retrieve ChargePoint NOS instances.

4.1.1 Restrictions

None.

4.1.2 Input Parameters

None.

4.1.3 Response Parameters

Parameter	Description	Type
cpnID	ChargePoint network identifier	Integer
cpnName	ChargePoint network name	String
cpnDescription	Description	String

4.1.4 getCPNInstances – Sample Input

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:dictionary:com.chargepoint.webservices">
   <soapenv:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">
   <wsse:Security soapenv:mustUnderstand="1">
     <wsse:UsernameToken>
      <wsse:Username>{{username}}</wsse:Username>
      <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
username-token-profile-1.0#PasswordText">{{password}}</wsse:Password>
     </wsse:UsernameToken>
   </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
  <urn:getCPNInstances/>
  </soapenv:Body>
</soapenv:Envelope>
```

4.1.5 getCPNInstances – Sample Response

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header>
   <wsse:Security soapenv:mustUnderstand="1" xmlns:wsse="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"/>
  </soapenv:Header>
  <soapenv:Body>
   <ns1:getCPNInstancesResponse
xmlns:ns1="urn:dictionary:com.chargepoint.webservices">
     <CPN>
      <cpnID>1</cpnID>
      <cpnName>USA</cpnName>
      <cpnDescription>ChargePoint North America</cpnDescription>
     </CPN>
     <CPN>
      <cpnID>2</cpnID>
      <cpnName>EU</cpnName>
      <cpnDescription>ChargePoint Europe</cpnDescription>
     </CPN>
     <CPN>
      <cpnID>3</cpnID>
      <cpnName>AU</cpnName>
      <cpnDescription>ChargePoint Australia</cpnDescription>
     </CPN>
       <CPN>
      <cpnID>4</cpnID>
      <cpnName>CA</cpnName>
      <cpnDescription>ChargePoint Canada</cpnDescription>
     </CPN>
   </ns1:getCPNInstancesResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

5 Demand Management API

The Demand Management API is used to restore charging station load for a port, station, or group of stations. Custom station groups are created and modified using the ChargePoint Service Plan's application software (online dashboard). All demand management commands are features of ChargePoint's Enterprise Plan.

Summary of Demand Management API calls:

- shedLoad
- clearShedState
- getLoad
- createLoadShedEvent
- removeLoadShedEvent

These APIs are detailed on the following pages.

5.1 shedLoad

Use this call to shed load for a single port on a station, both ports on a multi-port station, or a group of stations. Only one of these three options may be used in a request as follows:

- Group: Include the shedGroup element.
- Station: Include the shedStation element and either the allowedLoadPerStation or percentShedPerStation parameters within that element; omit the Ports array.
- Port: Include the shedStation element and the Ports array; set the allowedLoadPerStation and percentShedPerStation parameters in the shedStation element to a null value or omit them from the request.

Load shedding may be performed in one of the following modes. Mixing modes on a single station is not permitted:

- percentShedPerStation or Port – Percentage of a station or port's present power output to be shed
- allowedLoadPerStation or Port – Absolute maximum allowable load in kW

Shedding is performed by specifying either the percentage of the station or port's present power output using the percentShedPerStation or percentShedPerPort parameter, or by setting an absolute maximum allowable load (in kW) for a specified time period using the allowedLoadPerStation or allowedLoadPerPort parameter. Subsequent calls will overwrite previous values if you use the same mode (allowedLoad vs. percentShed). If you use a different mode before the shed state is cleared using clearShedState, the call is ignored.

Note that if the percentShedPerStation or percentShedPerPort parameter is used on a subsequent call, it will operate on the power measured when the first call to shedLoad was made. For example, if a station is delivering 10 kW, and a call is made to shed 30%, it will drop to 7 kW. If a subsequent call is then made to shed 50%, the station will drop to 5 kW (not 3.5 kW). In contrast the allowedLoadPerStation and allowedLoadPerPort parameters set the absolute maximum.

Note: If you use the shedLoad call with the percentShedPerStation or percentShedPerPort parameter on a station that is not delivering any power, the maximum output is set to 0 kW, and charging will not be allowed on that station until the shed period ends or a call to clearShedState is made.

5.1.1 Restrictions

None.

5.1.2 Input Parameters

Parameter	Description	Required/ Optional	Type
shedGroup	Include this object if you want to shed load for a group of stations.	Optional	Complex Type
sgID	Custom station group identifier	Required	Integer
allowedLoadPerStation	Maximum allowed load expressed in kW This value is an absolute maximum and is not relative to the power being dispensed by the station. At the group level, this parameter applies to each station, not the total power for the group. If this parameter is set, percentShedPerStation must be set to a null value.	Optional	Float
percentShedPerStation	Percentage of the power currently being dispensed by the station to shed For example, if the station is currently dispensing 10 kW, a value of 60% will lower the power being dispensed to 4 kW. At the group level, this value applies to each station. If a station is not dispensing any power, the output will be set to zero until the shed state is cleared. If this parameter is set, allowedLoadPerStation must be set to a null value.	Optional	Float
shedStation	Include this object if you want to shed the load for a single station or single port on a multi-port station.	Optional	Complex Type

stationID	Unique station identifier used in ChargePoint The identifier never changes, even when the station's hardware is replaced. Format: CPNID:StationIdentifier	Required	String
allowedLoadPerStation	Maximum allowed load expressed in kW This value is an absolute maximum and is not relative to the power being dispensed by the station. This value only applies to the station specified by the stationID parameter. If this parameter is set, percentShedPerStation must be set to a null value.	Optional	Float
percentShedPerStation	Percentage of the power currently being dispensed by the station to shed For example, if the station is currently dispensing 10 kW, a value of 60% will lower the power being dispensed to 4 kW. This value only applies to the station specified by the stationID parameter. If this parameter is set, allowedLoadPerStation must be set to a null value.	Optional	Float
Ports	Array of port objects	Optional	Array
Port	Object that represents a port on a station	Optional	Complex Type
portNumber	Identifier for the port Stations with multiple connectors for a single port will use a letter to indicate the port identifier.	Optional	String
allowedLoadPerPort	Maximum allowed load expressed in kW This value is an absolute maximum and is not relative to the power being dispensed by the port. If this	Optional	Float

	parameter is set, percentShed must be set to a null value.		
percentShedPerPort	Percentage of the power currently being dispensed by the port to shed For example, if the port is currently dispensing 10 kW, a value of 60% will lower the power being dispensed to 4 kW. If a port is not dispensing any power, the output will be set to zero until the shed state is cleared. If this parameter is set, allowedLoadPerPort must be set to a null value.	Optional	Integer
timeInterval	Time interval in minutes A value of 0 indicates that there is no specified duration for which the power will be shed.	Required	Integer

5.1.3 Response Parameters

Parameter	Description	Type
Success	A success (1) or failure (0) response code only	Boolean
sgID	Custom station group identifier	String
allowedLoadPerStation	Maximum load allowed expressed in kW If percentShed was set in the request, this parameter will be null.	Float
percentShedPerStation	Percentage of the power currently being dispensed by the station to shed If allowedLoad was set in the request, this parameter will be null.	Integer
stationID	Unique station identifier used in ChargePoint The identifier never changes, even when the station's head assembly is swapped. Format: CPNID:StationIdentifier	String
Ports	Array of port objects for the station if a single port was shed	Array
Port	Port object that has been shed	Complex Type

Parameter	Description	Type
portNumber	Identifier for the port Stations with multiple plugs associated with a single port will use a letter to indicate the port identifier.	String
allowedLoadPerPort	Maximum allowed load expressed in kW This value is an absolute maximum and is not relative to the power being dispensed by the port. If this parameter is set, percentShed must be set to a null value.	Float
percentShedPerPort	Percentage of the power currently being dispensed by the port to shed For example, if the port is currently dispensing 10 kW, a value of 60% will lower the power being dispensed to 4 kW. If a port is not dispensing any power, the output will be set to zero until the shed state is cleared. If this parameter is set, allowedLoadPerPort must be set to a null value.	Integer

5.1.4 shedLoad – Sample Input

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:dictionary:com.chargepoint.webservices">
   <soapenv:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">
   <wsse:Security soapenv:mustUnderstand="1">
     <wsse:UsernameToken>
      <wsse:Username>{{username}}</wsse:Username>
      <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
username-token-profile-1.0#PasswordText">{{password}}</wsse:Password>
     </wsse:UsernameToken>
   </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
   <urn:shedLoad>
     <shedQuery>
       <shedStation>
      <stationID>1:123456</stationID>
        <Ports>
         <Port>
           <portNumber>1</portNumber>
           <allowedLoadPerPort>0.0</allowedLoadPerPort>
         </Port>
        </Ports>
      </shedStation>
      <timeInterval>5</timeInterval>
     </shedQuery>
   </urn:shedLoad>
  </soapenv:Body>
</soapenv:Envelope>
```

5.1.5 shedLoad – Sample Response

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
 <SOAP-ENV:Header>
  <wsse:Security xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-secext-1.0.xsd" SOAP-ENV:mustUnderstand="1"/>
 </SOAP-ENV:Header>
 <SOAP-ENV:Body>
  <ns1:shedLoadResponse xmlns:ns1="urn:dictionary:com.chargepoint.webservices"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
   <responseCode>100</responseCode>
   <responseText>API input request executed successfully.</responseText>
   <Success>1</Success>
   <stationID>1:123456</stationID>
   <Ports>
    <Port>
     <portNumber>1</portNumber>
     <allowedLoadPerPort>0.0</allowedLoadPerPort>
    </Port>
   </Ports>
  </ns1:shedLoadResponse>
 </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

5.2 clearShedState

Use this call to clear the shed state from a single station or group of stations.

5.2.1 Restrictions

None.

5.2.2 Input Parameters

Parameter	Description	Required/ Optional	Type
shedGroup	Include this object if you want to shed load for a group of stations.	Optional	Complex Type
sgID	Custom station group identifier	Required	Integer
shedStation	Include this object if you want to shed the load for a single station or single port on a multiport station.	Optional	Complex Type
stationID	Unique station identifier used in ChargePoint The identifier never changes, even when the stations head assembly is swapped. Format: CPNID:StationIdentifier	Optional	String
Ports	Array of port objects	Optional	Array

Port	Object that represents a port on a station	Optional	Complex Type
portNumber	Identifier for the port Stations with multiple connectors for a single port will use a letter to indicate the port identifier.	Optional	String

5.2.3 Response Parameters

Parameter	Description	Type
Success	A success (1) or failure (0) response code only	Boolean
sgID	Custom station group identifier	String
stationID	Unique station identifier used in ChargePoint The identifier never changes, even when the station's head assembly is swapped. Format: CPNID:StationIdentifier	String

5.2.4 clearShedState – Sample Input

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:dictionary:com.chargepoint.webservices">
   <soapenv:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">
   <wsse:Security soapenv:mustUnderstand="1">
     <wsse:UsernameToken>
      <wsse:Username>{{username}}</wsse:Username>
      <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
username-token-profile-1.0#PasswordText">{{password}}</wsse:Password>
     </wsse:UsernameToken>
   </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
   <urn:clearShedState>
    <shedQuery>
      <shedStation>
         <stationID>1:12345</stationID>
      </shedStation>
    </shedQuery>
   </urn:clearShedState>
  </soapenv:Body>
</soapenv:Envelope>
```

5.2.5 clearShedState – Sample Response

```
<SOAP-ENV:Body>
    <ns1:clearShedStateResponse>
      <responseCode>100</responseCode>
      <responseText>API input request executed successfully.</responseText>
      <Success>1</Success>
      <stationID>1:12345</stationID>
    </ns1:clearShedStateResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

5.3 getLoad

Use this call to retrieve the load and shed state for a single station or custom station group. This method returns the load for each port on a multi-port station. It will also return the group max load if the load shed command was run against a group.

5.3.1 Restrictions

Some of the fields might not be populated due to lack of support on vehicle and/or station. This information is limited to the battery percentage at this time.

5.3.2 Input Parameters

Parameter	Description	Required/ Optional	Type
sgID	Custom station group identifier	Optional	String
stationID	Unique station identifier used in ChargePoint This identifier never changes, even when the station's head assembly is swapped. Format: CPNID:StationIdentifier	Required	String
sessionID	Globally unique session identifier	Optional	String

5.3.3 Response Parameters

Parameter	Description	Type
sgID	Custom station group identifier	String
numStations	Number of stations in the group	Integer
groupName	Name of the custom station group	String
sgLoad	Present load for the custom station group (kW)	Float
stationData	Response will include one of these objects for each station that matches the query	Complex Type
stationID	Unique station identifier used in ChargePoint This identifier never changes, even when the station's head assembly is swapped. Format: CPNID:StationIdentifier	String
stationName	Display name of the station (Line 1/Line 2)	String

Parameter	Description	Type
	Line 1 is the name of the organization that owns the station and Line 2 is the name of the station. For example, (COULOMB TECH / FRONT LOT 01).	
Address	Station address (street address, city, state, postal code, country)	String
stationLoad	Present load for the station (kW)	Float
Port	Object representing a single port on a station Multiport stations will have one port object for each port.	Complex Type
portNumber	Identifier for the port Stations with multiple plugs associated with a single port will use a letter to indicate the port identifier.	String
userID	Unique identifier of the driver currently charging on this port	String
credentialID	Identifier of the credential used to start the session If it was a ChargePoint RFID card, it is the printed serial number on the card. If it was the ChargePoint Mobile App, it will be the identifier displayed in the user's app. Contactless credit cards will be displayed as blank.	String
shedState	1 = Shed, 0 = Not Shed	bool
portLoad	Present load for the port (kW)	Float
allowedLoad	Maximum load allowed at the station (kW) If percentShed was used in the last shedLoad call to this station, this parameter will be zero.	Float
percentShed	Percent of load currently being shed If allowedLoad was used in the last shedLoad call to this station, this parameter will be zero.	Integer
lastBatteryPercent	Returns the latest battery percentage of the vehicle connected to this port, if both the car and station support this functionality	Float
sessionID	Globally unique session identifier	String

5.3.4 getLoad – Sample Input

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:dictionary:com.chargepoint.webservices">
   <soapenv:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">
   <wsse:Security soapenv:mustUnderstand="1">
     <wsse:UsernameToken>
      <wsse:Username>{{username}}</wsse:Username>
      <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
username-token-profile-1.0#PasswordText">{{password}}</wsse:Password>
     </wsse:UsernameToken>
   </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
   <urn:getLoad>
     <searchQuery>
       <stationID>1:12345</stationID>
     </searchQuery>
   </urn:getLoad>
  </soapenv:Body>
</soapenv:Envelope>
```

5.3.5 getLoad – Sample Response

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="urn:dictionary:com.chargepoint.webservices">
  <SOAP-ENV:Body>
    <ns1:getLoadResponse>
      <responseCode>100</responseCode>
      <responseText>API input request executed successfully.</responseText>
      <numStations>0</numStations>
      <groupName></groupName>
      <sgLoad></sgLoad>
      <stationData>
        <stationID>1:12802441</stationID>
        <stationName>CP HOME / 221441027821</stationName>
        <Address>1234 Address, Austin, Texas, 77777, United States</Address>
        <stationLoad>0.000</stationLoad>
        <Port>
          <portNumber>1</portNumber>
          <userID></userID>
          <credentialID></credentialID>
          <shedState>1</shedState>
          <portLoad>0.000</portLoad>
          <allowedLoad>0.000</allowedLoad>
          <percentShed>0</percentShed>
          <sessionID>0</sessionID>
          <lastBatteryPercent>0</lastBatteryPercent>
        </Port>
      </stationData>
    </ns1:getLoadResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

5.4 createLoadShedEvent

This new API method is designed to create load shedding events for Home Utility program customers. These events allow for users to opt out as well as special tracking and management of events via the NOS. Created events return an event ID so they can be deleted at another time.

5.4.1 Restrictions

Requires utility program with Demand Response enabled.

5.4.2 Input Parameters

User must provide an allowedLoadPerPort to and can enter either the station group ID to do per port DR on all stations in the group or specify an individual station ID for calling an event on a single station.

Parameter	Description	Required/ Optional	Type
stationID	Unique station identifier used in ChargePoint This identifier never changes, even when the station's head assembly is swapped. Format: CPNID:StationIdentifier	Optional	String
sgID	Station group to perform the per port DR event on	Optional	String
eventStartTime	Start time of the event	Required	DateTime
eventDuration	Duration of the event in minutes	Required	Integer
allowOptOut	Specifies if the event will allow the users to opt out If element is not included, the default is to allow for opt out.	Optional	Boolean
allowedLoadPerPort	Maximum allowed load expressed in kW This value is an absolute maximum and is not relative to the power being dispensed by the port.	Optional	Float

Parameter	Description	Required/ Optional	Type
percentShedPerStation	Percentage of the power currently being dispensed by the station to shed For example, if the station is currently dispensing 10 kW, a value of 60% lower the power being dispensed to 4 kW. At the group level, this value applies to each station. If a station is not dispensing power, the output will be set to zero until the shed state is cleared. If this parameter is set, allowedLoadPerStation must be set to a null value.	Optional	Float

5.4.3 Response Parameters

Parameter	Description	Type
eventId	Event identifier is used to delete events. It will be globally unique.	Integer

5.4.4 createLoadShedEvent – Sample Input for Single Port

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:dictionary:com.chargepoint.webservices">
      <soapenv:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">
      <wsse:Security soapenv:mustUnderstand="1">
         <wsse:UsernameToken>
            <wsse:Username>{{username}}</wsse:Username>
            <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-username-token-profile-1.0#PasswordText">{{password}}</wsse:Password>
         </wsse:UsernameToken>
      </wsse:Security>
    </soapenv:Header>
   <soapenv:Body>
      <urn:createLoadShedEvent>
         <shedEvent>
            <stationID>1:123456</stationID>
            <eventStartTime>2022-12-01T21:00:00Z</eventStartTime>
            <eventDuration>60</eventDuration>
            <allowOptOut>TRUE</allowOptOut>
            <allowedLoadPerPort>3.0</allowedLoadPerPort>
          </shedEvent>
      </urn:createLoadShedEvent>
   </soapenv:Body>
</soapenv:Envelope>
```

5.4.5 createLoadShedEvent – Sample Response

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="urn:dictionary:com.chargepoint.webservices">
```

```
  <SOAP-ENV:Body>
    <ns1:createLoadShedEventResponse>
      <responseCode>100</responseCode>
      <responseText>API input request executed successfully.</responseText>
      <eventId>123254</eventId>
    </ns1:createLoadShedEventResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

5.5 removeLoadShedEvent

This method is designed to allow for partners to remove an already existing load shed event.

5.5.1 Restrictions

It will only succeed if the event exists, is in the future, and the user making the requests has access to the event.

5.5.2 Input Parameters

Parameter	Description	Required/ Optional	Type
EventId	Event identifier you are trying to remove	Required	Integer

5.5.3 Response Parameters

Parameter	Description	Type
Response	Reports the success or failure of the request	String

5.5.4 removeLoadShedEvent – Sample Input

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:dictionary:com.chargepoint.webservices">
   <soapenv:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">
   <wsse:Security soapenv:mustUnderstand="1">
     <wsse:UsernameToken>
      <wsse:Username>{{username}}</wsse:Username>
      <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
username-token-profile-1.0#PasswordText">{{password}}</wsse:Password>
     </wsse:UsernameToken>
   </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
   <urn:removeLoadShedEvent>
     <shedEvent>
      <eventID>1:123456</stationID>
     </shedEvent>
   </urn:removeLoadShedEvent>
  </soapenv:Body>
</soapenv:Envelope>
```

5.5.5 removeLoadShedEvent – Sample Response

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="urn:dictionary:com.chargepoint.webservices">
  <SOAP-ENV:Body>
    <ns1:removeLoadShedEventResponse>
      <responseCode>100</responseCode>
      <responseText>API input request executed successfully.</responseText>
    </ns1:removeLoadShedEventResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

6 Usage Analysis API

The Usage Analysis API is for service provider-centric applications in which clients can retrieve a charging station's usage statistics.

Summary of Usage Analysis API calls:

- getChargingSessionData
- get15minChargingSessionData
- getTransactionData

These API calls are detailed on the following pages.

6.1 getChargingSessionData

This call retrieves final session summaries for a station owner's (organization's) charging station(s) based on search criteria. The License Key is linked to a single station owner during the License Key creation process.

Note: Car information such as, make and model, might be included in this command if that information has been made publicly available by the car owner.

Note: This query refreshes every five minutes.

6.1.1 Restrictions

Each call returns a maximum of 500 sessions.

15-minute data and driver information have service plan restrictions.

6.1.2 Input Parameters

Note that without specifying proximity, searches based on location (i.e., address, city, state, postal code, country) return stations based on text that matches the specified location parameters. For example, if you specify a street address and city, the response includes all stations that match the values you specified for address and city. If you specify city only, the response includes all stations in the specified city. If you specify city and state, the response includes all stations that match the city and state.

When you specify proximity, the response returns all stations within the radius specified for the proximity value, with the radius centered at the most granular location information specified. For example, if you specify a street address, a city, and a state, and specify a proximity of 50 miles, the response includes all stations located with a 50-mile radius of the specified street address. However, if you specify only a state and a 50-mile radius, the response includes all stations within a 50-mile radius of the center of the specified state.

Note: The timestamp for offline sessions is the timestamp when the station came back online.

Parameter	Description	Required/ Optional	Type
stationID	Unique station identifier used in ChargePoint This identifier never changes, even when the station's head assembly is swapped. Format: CPNID:StationIdentifier	Optional	String
sessionID	Globally unique session identifier	Optional	String
stationName	Name of the station (wildcard characters allowed) It should be searched for by both company name (the name of the organization that owns the charging station) and station name. Company name is displayed on Line 1 of the charging station (if applicable) and the station name is displayed on Line 2 of the charging station (if applicable).	Optional	String
Address	Street number and street name	Optional	String
City	City where the station(s) are located	Optional	String
State	State where the station(s) are located	Optional	String
Country	Country where the station(s) are located	Optional	String
postalCode	Postal (i.e., zip) code where the station(s) are located	Optional	String
Proximity	Distance from the reference point within which you want to retrieve station information The default is 5 miles.	Optional	Integer
proximityUnit	Default value for proximity unit is M Can have values: M (Miles), N (Nautical miles), K (Kilometer), F (Feet), I (Inches)	Optional	String
fromTimeStamp	Session time >= from timestamp in UTC indicating the start of the charging session	Optional	DateTime
toTimeStamp	Session time < from timestamp in UTC indicating the end of the charging session	Optional	DateTime

Parameter	Description	Required/ Optional	Type
startRecord	Indicates record number of first session to be returned Useful when iterating over many sessions that exceed the maximum sessions (100) that are returnable in a single call.	Optional	Long
activeSessionsOnly	Only returns active sessions information when enabled **Note:** Data on session will inherently be incomplete.	Optional	Boolean
Lat	Latitude of the reference point	Optional	Float
Long	Longitude of the reference point	Optional	Float

6.1.3 Response Parameters

Parameter	Description	Type
stationID	Unique station identifier used in ChargePoint This identifier never changes, even when the station's head assembly is swapped. Format: CPNID:StationIdentifier	String
stationName	Display name (Line1/Line2) of the station	String
portNumber	Identifier of the port used for the session	String
Address	Address around the area where you want to see stations Proximity to Google-resolved point: street number and street name.	String
City	City where the station is located	String
State	State where the station is located	String
Country	Country where the station is located	String
postalCode	Postal (i.e., zip) code where the station is located	String
sessionID	Globally unique session identifier	String
Energy	Energy consumed (kWh)	Float
startTime	Start time of session	DateTime
endTime	End time of session	DateTime

Parameter	Description	Type
totalChargingDuration	Total duration for which the current was flowing during a session	String
totalSessionDuration	Total duration of the session	String
moreFlag	Indicates that the number of sessions is greater than the maximum number of sessions that can be returned in one call (currently 100), and therefore the session list was truncated	Boolean
rfidSerialNumber*	The serial number associated with the ChargePoint card Not applicable if an RFID card was not used to start the session.	String
driverAccountNumber*	The driver's ChargePoint account number	String
driverName*	The name of the driver who used the station during this session This value is not applicable if an RFID card was not used to start the session. The driver must be connected to the calling organization in order for the driver's name to appear in the response.	String
vehicleID*	A unique vehicle identifier if both the station and vehicle support it.	String
driverOptedOut	Identifies if the driver opted out of any load shed events that occurred during this session, if any	Boolean
driverOptedOutTimestamp	Timestamp that the driver opted out at in UTC in ISO8601	dateTimeDateTime

Parameter	Description	Type
	format (YYYY-MM-DDTHH:MM:SSZ)	
userID	Unique identifier of the driver This value is not a driver account number or username.	String
startBatteryPercentage	The percentage of battery when the session starts	Float
stopBatteryPercentage	The percentage of battery when the session is concluded	Float
recordNumber	Index of the record in the result set	LongInteger
credentialID	Identifier of a credential associated with this vehicle If this is a ChargePoint RFID card, it is the printed serial number on the back of the card.	String
endedBy	Displays how the session was ended whether the customer or the station ended the session Common responses are Timeout, Customer, Station Offline, and Plug Out at Vehicle.	String
vehicleMake	The make of the vehicle This is only shown if made available by the customer.	String
vehicleModel	The model of the vehicle This is only shown if made available by the customer.	Stringer
vehicleModelYear	The model year of the vehicle This is only shown if made available by the customer.	Integer

Parameter	Description	Type
vehiclePortMAC	The station MAC of the vehicle This is only shown if made available by the customer.	String

**Only returned if the Organization has an Enterprise plan and has appropriate rights over the station.*

6.1.4 getChargingSessionData – Sample Input

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:dictionary:com.chargepoint.webservices">
   <soapenv:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">
   <wsse:Security soapenv:mustUnderstand="1">
     <wsse:UsernameToken>
      <wsse:Username>{{username}}</wsse:Username>
      <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
username-token-profile-1.0#PasswordText">{{password}}</wsse:Password>
     </wsse:UsernameToken>
   </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
   <urn:getChargingSessionData>
     <searchQuery>
        <fromTimeStamp>2021-09-07T21:57:07Z</fromTimeStamp>
     </searchQuery>
   </urn:getChargingSessionData>
  </soapenv:Body>
</soapenv:Envelope>
```

6.1.5 getChargingSessionData – Sample Response

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="urn:dictionary:com.chargepoint.webservices">
  <SOAP-ENV:Body>
    <ns1:getChargingSessionDataResponse>
      <responseCode>100</responseCode>
      <responseText>API input request executed successfully.</responseText>
      <ChargingSessionData>
        <stationID>1:12345</stationID>
        <stationName>CHARGEPOINT / HQ 37</stationName>
        <portNumber>1A</portNumber>
        <Address>254 E Haciendo, Campbell, California, 95008, United
States</Address>
        <City>Campbell</City>
        <State>California</State>
        <Country>United States</Country>
        <postalCode>95008</postalCode>
        <sessionID>912345681</sessionID>
        <Energy>25.867001</Energy>
        <startTime>2021-09-07T22:21:14Z</startTime>
        <endTime>2021-09-07T22:59:57Z</endTime>
        <totalChargingDuration>00:38:14</totalChargingDuration>
        <totalSessionDuration>00:38:43</totalSessionDuration>
        <userID>123453</userID>
```

```
        <startBatteryPercentage>14</startBatteryPercentage>
        <stopBatteryPercentage>99</stopBatteryPercentage>
        <recordNumber>1</recordNumber>
        <credentialID>CNCP0000123452</credentialID>
        <endedBy>Customer</endedBy>
        <vehicleMake>Make</vehicleMake>
        <vehicleModel>Model</vehicleModel>
        <vehicleModelYear>2022</vehicleModelYear>
        <vehiclePortMAC>PortMac</vehiclePortMAC>
      </ChargingSessionData>
         <MoreFlag>1</MoreFlag>
    </ns1:getChargingSessionDataResponse>
  </SOAP-ENV:Body>
</soapenv:Envelope>
```

6.2 get15minChargingSessionData

Use this call to return 15-minute interval session summaries for a particular sessionID. The sessionID can be retrieved using the getChargingSessionData call.

6.2.1 Restrictionsg

Available only if you have purchased an Enterprise plan.

6.2.2 Input Parameters

Parameter	Description	Required/ Optional	Type
sessionID	Globally unique session identifier returned from the getChargingSessionData call	Required	String
energyConsumedInterval	Whether energy consumed is cumulative or delta Delta = True, Cumulative = False (Default)	Optional	Boolean

6.2.3 Response Parameters

Parameter	Description	Type
stationID	Unique station identifier used in ChargePoint This identifier never changes, even when the station's head assembly is swapped. Format: CPNID:StationIdentifier	String
portNumber	Identifier of the port used for the session	String
sessionID	Globally unique session identifier	String

stationTime	Meter reading timestamp for the start of the 15-minute interval	DateTime
energyConsumed	Energy consumed in the 15-minute interval (kWh) This could be Cumulative or Delta.	Float
peakPower	Peak power in the 15-minute interval (kW)	Float
rollingPowerAvg	Average power in the 15-minute interval (kW)	Float

6.2.4 get15minChargingSessionData – Sample Input

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:dictionary:com.chargepoint.webservices">
   <soapenv:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">
   <wsse:Security soapenv:mustUnderstand="1">
     <wsse:UsernameToken>
      <wsse:Username>{{username}}</wsse:Username>
      <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
username-token-profile-1.0#PasswordText">{{password}}</wsse:Password>
     </wsse:UsernameToken>
   </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
   <urn:get15minChargingSessionData>
     <sessionID>123456781</sessionID>
     <energyConsumedInterval>False</energyConsumedInterval>
   </urn:get15minChargingSessionData>
  </soapenv:Body>
</soapenv:Envelope>
```

6.2.5 get15minChargingSessionData – Sample Response

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="urn:dictionary:com.chargepoint.webservices">
  <SOAP-ENV:Body>
    <ns1:get15minChargingSessionDataResponse>
      <responseCode>100</responseCode>
      <responseText>API input request executed successfully.</responseText>
      <sessionID>123456781</sessionID>
      <stationID>1:124567</stationID>
      <portNumber>1</portNumber>
      <fifteenminData>
        <stationTime>2021-09-07T22:21:14Z</stationTime>
        <energyConsumed>6.278</energyConsumed>
        <peakPower>47.627</peakPower>
        <rollingPowerAvg>42.9673</rollingPowerAvg>
      </fifteenminData>
      <fifteenminData>
        <stationTime>2021-09-07T22:30:00Z</stationTime>
        <energyConsumed>18.469</energyConsumed>
        <peakPower>50.223</peakPower>
        <rollingPowerAvg>48.764</rollingPowerAvg>
      </fifteenminData>
      <fifteenminData>
        <stationTime>2021-09-07T22:45:00Z</stationTime>
```

```
        <energyConsumed>25.867</energyConsumed>
        <peakPower>0</peakPower>
        <rollingPowerAvg>29.592</rollingPowerAvg>
      </fifteenminData>
    </ns1:get15minChargingSessionDataResponse>
  </SOAP-ENV:Body>
</soapenv:Envelope>
```

6.3 getTransactionData

Use this method to retrieve financial transaction data for charging stations managed by your organization. This includes session fees as well as fees for reservations. The request includes several filters to limit the size of the response, and the method will paginate the data if the result set is too large. By increasing the startRecord property, you can retrieve additional pages of data that meet the other filters in the request.

Note: To use this method, the station must have a pricing policy and be under an enterprise plan.

6.3.1 Restrictions

This method only returns data that your organization has the rights to view. That means that either the station is activated in your organization, or another organization has granted your organization with Network Management or Station Management rights to their stations. This method will return up to 100 transactions in a single call.

6.3.2 Input Parameters

Parameter	Description	Required/ Optional	Type
stationID	Unique station identifier used in ChargePoint This identifier never changes, even when the station's head assembly is swapped. Format: CPNID:StationIdentifier CPNID can be retrieved by calling getAllCPNInstances function call.	Optional	String
stationName	Filter results by part or all of the station name The complete name of the station includes two parts, common name, and station name, separated by a slash, as follows: COMMON NAME / STATION NAME	Optional	String
stationMacAddr	Station MAC Address of the hardware	Optional	String

orgID	Organization identifier CPNID:orgID	Optional	String
organizationName	Name of organization	Optional	String
pricingRuleName	Name of the pricing rule that was used to compute the fee for the transaction	Optional	String
transactionType	Indicates the type of transaction: Session, Reservation, Reservation Cancel, Reservation Usage Addendum	Optional	Enum
transactionID	Unique identifier for the transaction	Optional	Integer
fromTransactionTimeStamp	Filter all transactions that happened on or after this timestamp	Optional	DateTime
toTransactionTimeStamp	Filter all transactions that happened on or before this timestamp	Optional	DateTime
startRecord	Start index of the first transaction to return in the call that meets the other search criteria If left out of the request, the response starts at index number 1.	Optional	Integer
numTransactions	Number of transactions to return in the response If left out of the request, this method defaults to 100 transactions if not specified.	Optional	Integer
anonymousCreditCardNumber	Last four digits of credit card.	Optional	String

6.3.3 Response Parameters

Parameter	Description	Type

stationID	Unique station identifier used in ChargePoint This identifier never changes, even when the station's head assembly is swapped. Format: CPNID:StationIdentifier CPNID can be retrieved by calling getAllCPNInstances function call.	String
stationName	Complete name of the station includes two parts, common name, and station name, separated by a slash, as follows: COMMON NAME / STATION NAME	String
stationMacAddr	Station MAC Address of the hardware	String
portNumber	Identifier for the port	String
organizationName	Name of the organization	String
pricingRuleName	Name of the pricing rule that was used to compute the fee for the transaction	String
transactionType	Indicates the type of transaction: Session, Reservation, Reservation Cancel, Reservation Usage Addendum	String
transactionID	Unique identifier for the transaction	Integer
Energy	Total energy for the session in kWh	Float
transactionTime	Timestamp of when the transaction was reported to ChargePoint by the station	DateTime
startTime	Start time of the session	DateTime
endTime	End time of the session	DateTime
Currency	ISO 4217 code for the currency used on the station For example: US Dollar = USD, Canadian Dollar = CAD, Euro = EUR	String
grossAmount	Total fee paid by the driver for the session	Float
flexBillingServiceFee	Processing fee for ChargePoint Flex Billing service	Float
netRevenue	Total amount paid back to the organization	Float
exchangeRateUSD	Exchange rate used to convert between other currencies and US Dollars if required for transaction	Float

recordNumber	Index of the transaction in the result set	Integer
anonymousCreditCardNumber	Last four digits of credit card.	String
taxAmount	Nominal tax rate for the transaction.	Double
netAmount	Nominal net amount expected from the transaction.	Double

6.3.4 getTransactionData – Sample Input

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:dictionary:com.chargepoint.webservices">
   <soapenv:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">
   <wsse:Security soapenv:mustUnderstand="1">
     <wsse:UsernameToken>
      <wsse:Username>{{username}}</wsse:Username>
      <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
username-token-profile-1.0#PasswordText">{{password}}</wsse:Password>
     </wsse:UsernameToken>
   </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
   <urn:getTransactionData>
     <searchQuery>
      <transactionID>1234567</transactionID>
<anonymousCreditCardNumber>1234</anonymousCreditCardNumber>
     </searchQuery>
   </urn:getTransactionData>
  </soapenv:Body>
</SOAP-ENV:Envelope>
```

6.3.5 getTransactionData – Sample Response

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="urn:dictionary:com.chargepoint.webservices">
  <SOAP-ENV:Body>
    <ns1:getTransactionDataResponse>
      <responseCode>100</responseCode>
      <responseText>API input request executed successfully.</responseText>
      <transactions>
        <transactionData>
          <stationID>1:123456</stationID>
          <stationName>CHARGEPOINT / HQ 11</stationName>
          <stationMacAddr>0011:2222:0000:1234</stationMacAddr>
          <portNumber>1</portNumber>
          <organizationName>ChargePoint Headquarters</organizationName>
          <pricingRuleName>rule</pricingRuleName>
          <transactionType>Session</transactionType>
          <transactionID>123456</transactionID>
          <Energy>45.602</Energy>
          <transactionTime>2020-05-17T09:30:52Z</transactionTime>
          <startTime>2020-05-17T06:37:28Z</startTime>
          <endTime>2020-05-17T09:30:48Z</endTime>
          <Currency>USD</Currency>
          <grossAmount>11.4</grossAmount>
          <flexBillingServiceFee>11.4</flexBillingServiceFee>
          <netRevenue>11.4</netRevenue>
```

```
          <exchangeRateUSD>1</exchangeRateUSD>
          <companyID>1:1</companyID>
          <recordNumber>1</recordNumber>
          <anonymousCreditCardNumber>1234</anonymousCreditCardNumber>
          <taxAmount>2.3</taxAmount>
          <netAmount>9</netAmount>
        </transactionData>
      </transactions>
      <MoreFlag>0</MoreFlag>
    </ns1:getTransactionDataResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

7 Station Management API

The Station Management API is for service provider applications in which clients can retrieve important information that can be helpful for them to manage their station(s).

Summary of Station Management API calls:

- getStations
- getStationStatus
- getStationGroups
- getOrgsAndStationGroups
- getStationRights
- getStationRightsProfile
- getStationGroupDetails

These API calls are detailed on the following pages.

7.1 getStations

Use this call to return a list of stations. This will not return stations that you don't have access rights to. For example, it will not return a public station unless you either own the station or have been granted rights by the station's owner.

7.1.1 Restrictions

Up to 500 stations will be returned by this method.

7.1.2 Input Parameters

Parameter	Description	Required/ Optional	Type
stationID	Unique station identifier used in ChargePoint This identifier never changes, even when the station's head assembly is swapped. Format: CPNID:StationIdentifier CPNID can be retrieved by calling getAllCPNInstances function call.	Optional	String
stationManufacturer	Station manufacturer	Optional	String
stationModel	Station manufacturer model number	Optional	String
stationName	Name of the station (wildcard characters allowed) It should be searched for by both company name (the name of the organization that owns the charging station) and station name. Company name is displayed on Line 1 of the charging station (if applicable) and the station name is displayed on Line 2 of the charging station (if applicable).	Optional	String
Address	Address around the area where you want to see stations This can be street address or complete address (street address, city, state, zip code, country).	Optional	String
City	City where the station(s) are located	Optional	String
State	State where the station(s) are located	Optional	String
Country	Country where station(s) are located	Optional	String
postalCode	Postal (i.e., zip) code where the station(s) are located	Optional	String
Lat	Latitude of the station's location	Optional	Float

Long	Longitude of the station's location	Optional	Float
Proximity	Distance from the station's specified lat/long (Geo) from which you want to retrieve station information Default is 5.	Optional	Integer
proximityUnit	Default value for proximity unit is M Can have values: M (Miles), N (Nautical miles), K (Kilometer), F (Feet), I (Inches)	Optional	String
Level	Station level type where 1 is "Level 1", 2 is "Level 2", 3 is "Level 3", and 4 is "DC Fast" If the station has more than one level (for example, the station provides both level 1 and level 2 charging), the response will include both levels (1,2). Note: This parameter is for "US Stations" and "AU Stations" only (and is used instead of "Mode").	Optional	Enum
Mode	Station mode type where 1 is "Mode 1", 3 is "Mode 3", and 4 is "DC Fast" If the station has more than one mode (for example, the station provides both mode 1 with a domestic socket and mode 3 charging with an IEC62196 Type 2 socket), the response will include both modes (1,3). Note: This parameter is for "EU Stations" only (and is used instead of "Level").	Optional	Enum
startTime	Start time of a pricing session	Optional	DateTime
Duration	Estimated duration of session in hours	Optional	Integer
energyRequired	Estimated energy required for the charging session	Optional	Float

Reservable	Whether or not the station can be reserved: "1" - the station can be reserved "0" - the station cannot be reserved	Optional	Boolean
Connector	Connector type For example: NEMA 5-20R, J1772, ALFENL3, Schuko	Optional	String
Voltage	Nominal voltage (V)	Optional	Float
Current	Current supported (A)	Optional	Float
Power	Power supported (kW)	Optional	Float
demoSerialNumber	Array of serial numbers of stations identified as a "demo" Used only for client applications that need to access stations identified as "demo".	Optional	String
orgID	Organization identifier CPNID:CompanyID	Optional	String
organizationName	Name of organization	Optional	String
sgID	Custom station group identifier	Optional	String
sgName	Name of custom station group	Optional	String
warrantyService	See chart in section 7.1.5 for options in warranty types.	Optional	String
startRecord	Start index for the stations that match the query	Optional	Integer
numStations	Number of stations to return in the response Maximum is 500, and if left blank the method will return up to 500 stations.	Optional	Integer

7.1.3 Response Parameters

Parameter	Description	Type
stationID	Unique station identifier used in ChargePoint This identifier never changes, even when the station's head assembly is swapped. Format: CPNID:StationIdentifier CPNID can be retrieved by calling getAllCPNInstances function call.	String
recordNumber	Index of the record in the result set	Integer
stationManufacturer	Station manufacturer	String
stationModel	Station manufacturer model number	String
portNumber	Identifier of the port This ID is 1 based.	String
stationName	Display name of the station (Line 1/Line 2) Line 1 is the name of the organization that owns the station and Line 2 is the name of the station. For example (COULOMB TECH / FRONT LOT 01).	String
stationMacAddr	Hardware MAC address of the station	String
stationSerialNum	Hardware serial number of the station	String
Address	Complete address (street address, city, state, zip code, country)	String
City	City where the station(s) are located Note: Included in US calls only	String
State	State where the station(s) are located Note: Included in US calls only	String
Country	Country where station(s) are located	String

Parameter	Description	Type
	Note: Included in US calls only	
postalCode	Zip code where the station(s) are located Note: Included in US calls only	String
Lat	Latitude of the station's location	Float
Long	Longitude of the station's location	Float
Reservable	Whether or not the station can be reserved: "1" - the station can be reserved "0" - the station cannot be reserved	Boolean
Level	Station level type where 1 is "Level 1", 2 is "Level 2", 3 is "Level 3", and 4 is "DC Fast" If the station has more than one level (for example, the station provides both level 1 and level 2 charging), the response will include both levels (1,2).	Enum
Mode	Station mode type where 1 is "Mode 1", 3 is "Mode 3", and 4 is "DC Fast" If the station has more than one mode (for example, the station provides both mode 1 with a domestic socket and mode 3 charging with an IEC62196 Type 2 socket), the response will include both modes (1,3). Note: This parameter is for "EU Stations" only (and is used instead of "Level").	Enum
Connector	Connector type For example: NEMA 5-20R, J1772, ALFENL3, Schuko	String
Voltage	Nominal voltage (V)	Float
Current	Current supported (A)	Float

Parameter	Description	Type
Power	Power supported (kW)	Float
numPorts	Number of ports	Integer
Type	Pricing type (Session, Hourly or kWh)	Enum
startTime	Start time of a pricing session	DateTime
endTime	End time of a pricing session	DateTime
minPrice	Minimum price charged for a session	Float
maxPrice	Maximum price charged for a session	Float
unitPricePerHour	Hourly price, if this mode of pricing is enabled	Float
unitPricePerSession	Session price, if this mode of pricing is enabled	Float
unitPricePerKWh	kWh price, if this mode of pricing is enabled	Float
unitPriceForFirst	Hourly price for the first portion of the pricing specification if pricing varies by length of time	Float
unitPricePerHourThereafter	Hourly price for the second portion of the pricing specification if pricing varies by length of time	Float
sessionTime	Maximum time allowed for a session	Float
Description	Station description (if entered when the station was provisioned)	String
mainPhone	ChargePoint network driver support telephone number	String
orgID	Organization identifier CPNID:CompanyID	String
organizationName	Name of organization	String
sgID	Custom station group identifier	Integer

Parameter	Description	Type
sgName	Name of custom station group	String
currencyCode	ISO 4217 code for the currency used on the station For example, US Dollar = USD, Canadian Dollar = CAD, Euro = EUR.	String
warrantyExpirationDate	Date that the current warranty Expires	DateTime string
warrantyService	Warranty activated on the station. See bellow chart for breakdown of the enum.	String
siteValidated	If the site design has been validated for warranty purposes	Boolean
siteValidationDate	If validated, this indicates that date the validation took place	DateTime string
wanIpAddress	Internal IP address of the station for monitoring purposes	String
networkStatus	Status of the station on the network Valid responses are REACHABLE, or UNREACHABLE.	Enum
stationFirmware	Firmware version string running on the station	String
stationReception	Station reception according to the table below	Integer
radioGroupID	Group identifier for the stations' radio group	Integer
estimatedCost	Cost estimated for a charging session based on the current pricing and reservation specifications	Float
moreFlag	Indicates that the number of stations that match this query is greater than the maximum number of stations that can be returned in one call (currently 500), and therefore the list was truncated.	Boolean

7.1.4 Station Reception Units

The following breaks down what unit the stationReception field will be expressed in based on the station itself. The rule of thumb for all these measurements is a more positive number (i.e., -50 is more positive than -100) means a stronger signal. If the station is a Gateway, either a CPGW, CT4k family gateway, or DCFC unit, it will have a modem installed and will be represented in the chart below by the generation of the cellular modem installed (LTE, 3G, etc.). All other models, including non-gateway versions and the ChargePoint Home and Flex family of products, communicate via Wi-Fi.

Station Model	Description	Measurement	Signal levels
LTE Equip Gateway	If the modem is communicating via LTE it will report signal strength as RSRP	RSRP (dBm)	-84 to 0 Excellent -85 to -102 Good -103 to -111 Fair <=112 Poor
3G Equip Gateway	If the modem is a 3G model, then the measurement is expressed as Received Signal Code Power or RSCP	RSCP	-65 to 0 Excellent -75 to -65 Good -85 to -75 fair <=85 poor
Wi-Fi based station (non-gateways and home units)	If the model uses Wi-Fi, then this will represent the signal strength between the unit and its access to our network. That is, the strength to the router for CPH or strength to its gateway for a non-gateway unit.	RSSI (dBm)	0 to -70 Excellent -65 to -75 Good -75 to -85 Fair <=-85 Poor

7.1.5 Warranty Service Units

The following is a basic breakdown of the various warranty offers that can be activated on ChargePoint stations. A more detailed breakdown can be found in ChargePoint website or from the ChargePoint support page.

Name	Description
None	The customer has not purchased or has an active warranty on this station.

Parts Only	The station has the basic or extended standard parts warranty. This can also represent a station with Assure or Assure Pro where the site has not been validated yet.
Parts and Labor	This station has Monthly and Quarterly performance reporting and active Assure warranty with the site validated. This also includes proactive monitoring with a 98% Annual uptime guarantee.
Mission Critical	This station has Monthly and Quarterly performance reporting and active Assure warranty with the site validated. This also includes a 1 hour response time on reported issues with a 24 hour time to resolve an issue once reported.
Remote Support Standard	This station has Monthly and Quarterly performance reporting and proactive monitoring. It also includes support for issues based on priority.
Remote Support Critical	This station has Monthly and Quarterly performance reporting and proactive monitoring. It also includes responses to issues within 1 business day 1 hour response with the critical service add on.
Remote Support and EPW Standard	This station has Monthly and Quarterly performance reporting and proactive monitoring. It also includes support for issues based on priority. It also includes an extended parts warranty.
Remote Support and EPW Critical	This station has Monthly and Quarterly performance reporting and proactive monitoring. It also includes responses to issues within 1 business day 1 hour response with the critical service add on. It also includes an extended parts warranty.

7.1.6 getStations – Sample Input

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:dictionary:com.chargepoint.webservices">
   <soapenv:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">
   <wsse:Security soapenv:mustUnderstand="1">
     <wsse:UsernameToken>
      <wsse:Username>{{username}}</wsse:Username>
      <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
username-token-profile-1.0#PasswordText">{{password}}</wsse:Password>
     </wsse:UsernameToken>
   </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
   <urn:getStations>
     <searchQuery>
      <stationID>1:12345</stationID>
     </searchQuery>
   </urn:getStations>
  </soapenv:Body>
</soapenv:Envelope>
```

7.1.7 getStations – Sample Response

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="urn:dictionary:com.chargepoint.webservices">
  <SOAP-ENV:Body>
    <ns1:getStationsResponse>
      <responseCode>100</responseCode>
      <responseText>API input request executed successfully.</responseText>
      <stationData>
        <recordNumber>1</recordNumber>
        <stationID>1:12345</stationID>
        <stationManufacturer>ChargePoint</stationManufacturer>
        <stationModel>CT4020-HD</stationModel>
        <stationMacAddr>0024:B100:0002:F13F</stationMacAddr>
        <stationSerialNum>183341016451</stationSerialNum>
        <stationName>AE_TEST_STATION / SDGE AE NGW02</stationName>
        <Description>-</Description>
        <Address>1357 Dell Ave </Address>
        <City>Campbell</City>
        <State>California</State>
        <Country>United States</Country>
        <postalCode>95008</postalCode>
        <Port>
          <portNumber>1</portNumber>
          <Geo>
            <Lat>37.267023688202500</Lat>
            <Long>-121.954745800000000</Long>
          </Geo>
          <Reservable>0</Reservable>
          <Level>L2</Level>
          <Connector>J1772</Connector>
          <Voltage>240</Voltage>
          <Current>30</Current>
          <Power>6.600</Power>
          <estimatedCost>0</estimatedCost>
        </Port>
      </stationData>
      <moreFlag>0</moreFlag>
    </ns1:getStationsResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

7.2 getStationStatus

Use this method to streamline applications, which read the availability status of private stations.

7.2.1 Restrictions

This method only returns data that your organization has the rights to view. It means that either the station is activated in your organization, or another organization has granted your organization Network Management or Station Management rights to their stations. This method will return up to 500 stations in a single call.

7.2.2 Input Parameters

Parameter	Description	Required/ Optional	Type
stationID	Unique station identifier used in ChargePoint This identifier never changes, even when the station's hardware is replaced. Format: CPNID:StationIdentifier **Note:** This parameter is not allowed if the stationIDs array is present in the request, and it will cause the service to throw an error.	Optional	String
stationIDs	Array of stationID parameters **Note:** This array is not allowed to coexist if the single stationID parameter is present, and it will cause the service to throw an error.	Optional	Array of stationID parameters
stationManufacturer	Station manufacturer	Optional	String
stationModel	Station model number	Optional	String
stationName	Name of the station (wildcard characters allowed) It should be searched for by both company name (the name of the organization that owns the charging station) and station name. Company name is displayed on Line 1 of the charging station (if applicable) and the station name is displayed on Line 2 of the charging station (if applicable).	Optional	String

Parameter	Description	Required/ Optional	Type
Address	Address around the area where you want to see stations This can be the street address or the complete address (street address, city, state, zip code, country).	Optional	String
City	City where the station(s) are located	Optional	String
State	State where the station(s) are located	Optional	String
Country	Country where station(s) are located	Optional	String
postalCode	Postal (i.e., zip) code where the station(s) are located	Optional	String
Lat	Latitude of the station's location	Optional	Float
Long	Longitude of the station's location	Optional	Float
Proximity	Distance from the station's specified lat/long (Geo) from which you want to retrieve station information Default is 5.	Optional	Integer
proximityUnit	Default value for proximity unit is M Can have values: M (Miles), N (Nautical miles), K (Kilometer), F (Feet), I (Inches).	Optional	String
Level	Station level type where 1 is "Level 1", 2 is "Level 2", 3 is "Level 3", and 4 is "DC Fast" If the station has more than one level (for example, the station provides both level 1 and level 2 charging), the response will include both levels (1,2). **Note:** This parameter is for the "US Stations" and "AU Stations" calls only (and is used instead of "Mode").	Optional	Enum
Mode	Station mode type where 1 is "Mode 1", 3 is "Mode 3", and 4 is "DC Fast" If the station has more than one mode (for example, the station provides both	Optional	Enum

Parameter	Description	Required/ Optional	Type
	mode 1 with a domestic socket and mode 3 charging with an IEC62196 Type 2 socket), the response will include both modes (1,3). **Note:** This parameter is for "EU Stations" only (and is used instead of "Level").		
Status	Station status where 1 is "Available", 2 is "InUse", and 3 is "Unknown"	Optional	Integer
startTime	Start time of a pricing session (time format HH:MM:SS)	Optional	Time
Duration	Estimated charging duration in hours	Optional	Integer
energyRequired	Estimated energy needed for charging session in kWh	Optional	Float
vehiclePower	If a session is active, present amount of power in kW being delivered to the vehicle	Optional	Float
Reservable	Whether or not the station can be reserved "1" - the station can be reserved "0" - the station cannot be reserved	Optional	Boolean
Connector	Connector type For example: NEMA 5-20R, J1772, ALFENL3, Schuko	Optional	String
Voltage	Nominal voltage (V)	Optional	Float
Current	Current supported (A)	Optional	Float
Power	Power supported (kW)	Optional	Float
demoSerialNumber	Array of serial numbers of stations identified as a "demo" station Used only for client applications that need to access stations identified as "demo" stations.	Optional	String

Parameter	Description	Required/ Optional	Type
portDetails	Optional flag indicating that Connector and Power parameters should be included in the response Default is false.	Optional	Boolean
startRecord	Start index of the first station to return in the call that meets the other search criteria If left out of the request, the response will start at index number 1.	Optional	Integer
numStations	Number of stations to return in the response If left out of the request, this method will default to 500 stations.	Optional	Integer

7.2.3 Response Parameters

Parameter	Description	Type
stationID	Unique station identifier used in ChargePoint This identifier never changes, even when the station's head assembly is swapped. Format: CPNID:StationIdentifier	String
portNumber	Identifier of the port This ID is 1 based.	String
Status	Port status may be one of the following values: AVAILABLE, INUSE, UNREACHABLE, UNKNOWN AVAILABLE means that the station is communicating with ChargePoint, and the port is available for use. INUSE means that a car is connected to the port, and it is not available to another driver. UNREACHABLE means that the station is having trouble communicating with ChargePoint to report its status.	String

	UNKNOWN means that the station is in an unknown state. **Note:** The AVAILABLE and INUSE flags are independent of the reservation status of the station.	
FaultReason	Reason for station failure. Common causes are hardware. Common errors are Hardware Fault Station Out Of Service and Station Unreachable	String
TimeStamp	Timestamp of the last communication between the station and ChargePoint	DateTime
Connector	Connector type For example: NEMA 5-20R, J1772, ALFENL3, Schuko **Note:** This parameter will only be included in the response if the portDetails flag parameter is set to "true" in the request.	String
Power	Power supported (kW) **Note:** This parameter will only be included in the response if the portDetails flag parameter is set to "true" in the request.	Float
moreFlag	Indicates that the number of stations that match this query is greater than the maximum number of stations that can be returned in one call (currently 500), and therefore the list was truncated.	Boolean
recordNumber	Index of the record in the result set	Integer
networkStatus	Status of the station on the network Valid responses are REACHABLE, or UNREACHABLE.	Enum

7.2.4 getStationStatus – Sample Input

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:dictionary:com.chargepoint.webservices">
   <soapenv:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">
   <wsse:Security soapenv:mustUnderstand="1">
     <wsse:UsernameToken>
      <wsse:Username>{{username}}</wsse:Username>
      <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
username-token-profile-1.0#PasswordText">{{password}}</wsse:Password>
     </wsse:UsernameToken>
```

```
   </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
   <urn:getStationStatus>
     <searchQuery>
      <stationID>1:12345</stationID>
     </searchQuery>
   </urn:getStationStatus>
  </soapenv:Body>
</soapenv:Envelope>
```

7.2.5 getStationStatus – Sample Response

```
  <SOAP-ENV:Body>
    <ns1:getStationStatusResponse>
      <responseCode>100</responseCode>
      <responseText>API input request executed successfully.</responseText>
      <stationData>
        <stationID>1:12345</stationID>
        <Port>
          <portNumber>1</portNumber>
          <Status>UNKNOWN</Status>
          <faultReason>NONE</faultReason>
          <TimeStamp>2021-12-07T21:05:05Z</TimeStamp>
        </Port>
        <Port>
          <portNumber>2</portNumber>
          <Status>UNKNOWN</Status>
          <faultReason>NONE</faultReason>
          <TimeStamp>2021-12-07T21:05:05Z</TimeStamp>
        </Port>
        <recordNumber>1</recordNumber>
        <networkStatus>Unreachable</networkStatus>
      </stationData>
      <moreFlag>0</moreFlag>
    </ns1:getStationStatusResponse>
  </SOAP-ENV:Body>
```

7.3 getStationGroups

Use this call to retrieve custom station groups for any organization. It returns an array of groups for a given organization and lists the stations included in each group.

7.3.1 Restrictions

None.

7.3.2 Input Parameters

Parameter	Description	Required/ Optional	Type
orgID	Organization identifier CPNID:companyID	Required	String

7.3.3 Response Parameters

Parameter	Description	Type
sgID	Custom station group identifier	String
orgID	Organization identifier CPNID:companyID	String
sgName	Child group name	String
organizationName	Name of the organization	String
groupName	Group name	String
stationID	Unique station identifier used in ChargePoint This identifier never changes, even when the station's head assembly is swapped. Format: CPNID:StationIdentifier	String
Lat	Latitude of the station's location	Float
Long	Longitude of the station's location	Float

7.3.4 getStationGroups – Sample Input

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:dictionary:com.chargepoint.webservices">
   <soapenv:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">
   <wsse:Security soapenv:mustUnderstand="1">
     <wsse:UsernameToken>
      <wsse:Username>{{username}}</wsse:Username>
      <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
username-token-profile-1.0#PasswordText">{{password}}</wsse:Password>
     </wsse:UsernameToken>
   </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
   <urn:getStationGroups>
      <orgID>1:ORG123456</orgID>
   </urn:getStationGroups>
  </soapenv:Body>

</soapenv:Envelope>
```

7.3.5 getStationGroups – Sample Response

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="urn:dictionary:com.chargepoint.webservices">
  <SOAP-ENV:Body>
    <ns1:getStationGroupsResponse>
      <responseCode>100</responseCode>
```

```
      <responseText>API input request executed successfully.</responseText>
      <groupData>
        <sgID>12345</sgID>
        <orgID>1:ORG00000</orgID>
        <sgName>Group (CT4000)</sgName>
        <organizationName>ChargePoint Headquarters</organizationName>
        <stationData>
          <stationID>1:12345</stationID>
          <Geo>
            <Lat>30</Lat>
            <Long>-100</Long>
          </Geo>
        </stationData>
      </groupData>
    </ns1:getStationGroupsResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

7.4 getStationGroupDetails

Use this call to get the details for a custom station group. The response provides the immediate level child groups and stations of a group.

7.4.1 Restrictions

None.

7.4.2 Input Parameters

Parameter	Description	Required/ Optional	Type
sgID	Custom station group identifier	Required	Integer
stationID	Unique station identifier used in ChargePoint. This identifier never changes, even when the station's head assembly is swapped. Format: CPNID:StationIdentifier	Optional	String

7.4.3 Response Parameters

Parameter	Description	Type
groupName	Name of the group	String
sgID	Child group identifier	Integer
sgName	Child group name	String
numStations	Number of stations contained in the group	Float

stationID	Unique station identifier used in ChargePoint This identifier never changes, even when the station's head assembly is swapped. Format: CPNID:StationIdentifier	Integer
stationName	Display name of the station (Line 1/Line 2). Line 1 is the name of the organization that owns the station and Line 2 is the name of the station. For example (COULOMB TECH / FRONT LOT 01).	String

7.4.4 getStationGroupDetails – Sample Input

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:dictionary:com.chargepoint.webservices">
   <soapenv:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">
   <wsse:Security soapenv:mustUnderstand="1">
     <wsse:UsernameToken>
      <wsse:Username>{{username}}</wsse:Username>
      <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
username-token-profile-1.0#PasswordText">{{password}}</wsse:Password>
     </wsse:UsernameToken>
   </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
   <urn:getStationGroupDetails>
    <sgID>12345</sgID>
   </urn:getStationGroupDetails>
  </soapenv:Body>
</soapenv:Envelope>
```

7.4.5 getStationGroupDetails – Sample Response

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="urn:dictionary:com.chargepoint.webservices">
  <SOAP-ENV:Body>
    <ns1:getStationGroupDetailsResponse>
      <responseCode>100</responseCode>
      <responseText>API input request executed successfully.</responseText>
      <groupName>CAM-1 (CT4000)</groupName>
      <numStations>1</numStations>
      <stationData>
        <stationID>1:12345</stationID>
        <stationName>CHARGEPOINT / HQ 34</stationName>
        <Address>1245 Address, Campbell, California, 95008, United States</Address>
      </stationData>
    </ns1:getStationGroupDetailsResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

7.5 getOrgsAndStationGroups

Use this call to retrieve organization and custom station groups that you have access rights to.

7.5.1 Restrictions

None.

7.5.2 Input Parameters

Parameter	Description	Required/ Optional	Type
orgID	Organization identifier CPNID:CompanyID	Optional	String
organizationName	Name of organization	Optional	String
sgID	Custom station group identifier	Optional	String
sgName	Name of the custom station group	Optional	String

7.5.3 Response Parameters

Parameter	Description	Type
orgID	The organization identifier CPNID:orgID	String
organizationName	Name of organization	String
sgID	Custom station group identifier	Integer
sgName	Name of custom station group	String
parentGroupId	Group identifier of the parent group ('0' if it has no parent group)	Integer

7.5.4 getOrgsAndStationGroups – Sample Input

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:dictionary:com.chargepoint.webservices">
   <soapenv:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">
   <wsse:Security soapenv:mustUnderstand="1">
     <wsse:UsernameToken>
      <wsse:Username>{{username}}</wsse:Username>
      <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
username-token-profile-1.0#PasswordText">{{password}}</wsse:Password>
     </wsse:UsernameToken>
   </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
```

```
   <urn:getOrgsAndStationGroups>
     <searchQuery>
     </searchQuery>
   </urn:getOrgsAndStationGroups>
  </soapenv:Body>
</soapenv:Envelope>
```

7.5.5 getOrgsAndStationGroups – Sample Response

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="urn:dictionary:com.chargepoint.webservices">
  <SOAP-ENV:Body>
    <ns1:getOrgsAndStationGroupsResponse>
      <responseCode>100</responseCode>
      <responseText>API input request executed successfully.</responseText>
      <orgData>
        <orgID>1:ORG00000</orgID>
        <organizationName>ChargePoint Headquarters</organizationName>
        <sgData>
          <sgID>12345</sgID>
          <sgName>CAM-2 (CT4000)</sgName>
          <parentGroupID>1234</parentGroupID>
        </sgData>
      </orgData>
    </ns1:getOrgsAndStationGroupsResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

7.6 getStationRights

Returns access rights that have been granted for each station that you manage.

7.6.1 Restrictions

This call returns rights information for only those stations that are associated with your organization. This call will return up to 100 stations per call.

7.6.2 Input Parameters

Parameter	Description	Required/ Optional	Type
stationName	Name of the station (wildcard characters allowed). It should be searched for by both company name (the name of the organization that owns the charging station) and station name. Company name is displayed on Line 1 of the charging station (if applicable) and the station name is displayed on Line 2 of the charging station (if applicable).	Optional	String
Address	Address around the area where you want to see stations. This can be the street address or the complete address (street address, city, state, zip code, country).	Optional	String

Parameter	Description	Required/ Optional	Type
City	City where the station(s) are located	Optional	String
State	State where the station(s) are located	Optional	String
Country	Country where station(s) are located	Optional	String
postalCode	Postal (i.e., zip) code where the station(s) are located	Optional	String
Lat	Latitude of the station's location	Optional	Float
Long	Longitude of the station's location	Optional	Float
Proximity	Distance from the station's specified lat/long (Geo) from which you want to retrieve station information. Default is 5.	Optional	Integer
proximityUnit	Default value for proximity unit is M Can have values: M (Miles), N (Nautical miles), K (Kilometer), F (Feet), I (Inches)	Optional	String
Level	Station level type where 1 is "Level 1", 2 is "Level 2", 3 is "Level 3", and 4 is "DC Fast". If the station has more than one level (for example, the station provides both level 1 and level 2 charging), the response will include both levels (1,2). **Note:** This parameter is for "US Stations" and "AU Stations" only (and is used instead of "Mode").	Optional	Enum
Mode	Station mode type where 1 is "Mode 1", 3 is "Mode 3", and 4 is "DC Fast". If the station has more than one mode (for example, the station provides both mode 1 with a domestic socket and mode 3 charging with an IEC62196 Type 2 socket), the response will include both modes (1,3). **Note:** This parameter is for "EU Stations" only (and is used instead of "Level").	Optional	Enum
startTime	Start time of a pricing session	Optional	DateTime
duration	Estimated duration of the charging session	Optional	Integer
energyRequired	Estimated energy requirement for the charging session	Optional	Float

Parameter	Description	Required/ Optional	Type
Reservable	Whether or not the station can be reserved: "1" - the station can be reserved. "0" - the station cannot be reserved.	Optional	Boolean
Connector	Connector type For example: NEMA 5-20R, J1772, ALFENL3, Schuko	Optional	String
Voltage	Nominal voltage (V)	Optional	Float
Current	Current supported (A)	Optional	Float
Power	Power supported (kW)	Optional	Float
demoSerialNumber	Array of serial numbers of stations identified as "demo" station. Used only for client applications that need to access stations identified as "demo" stations.	Optional	String
stationID	Unique station identifier used in ChargePoint This identifier never changes, even when the station's head assembly is swapped. Format: CPNID:StationIdentifier	Optional	Integer
orgID	Organization identifier CPNID:orgID	Optional	Integer
organizationName	Name of organization	Optional	String
stationModel	Station model number	Optional	String
stationManufacturer	Station manufacturer	Optional	String
sgName	Custom station group name	Optional	String
provisionDateRange	Array of date range	Optional	datetime
currentFault	Station faults	Optional	String
portStatus	Status of port	Optional	Enum
adminStatus	Administration status	Optional	Enum

Parameter	Description	Required/ Optional	Type
networkStatus	It would be enumerated data type that can be 'Reachable' or 'Unreachable'	Optional	Enum
provisionStatus	It would be enumerated data type that can be 'Provisioned' or 'Not Provisioned' and 'Provisioning in progress'	Optional	Enum
startRecord	Start index of the first station to return in the call that meets the other search criteria. If left out of the request, the response will start at index number 1.	Optional	Integer
numStations	Number of stations to return in the response. If left out of the request, this method will default to 100 stations.	Optional	Integer

7.6.3 Response Parameters

The following parameters are returned for every station that matches your search criteria.

Parameter	Description	Type
sgID	Custom station group identifier	Integer
sgName	Custom station group name	String
stationRightsProfile	Identifies what type of rights have been granted to your organization for this station	String
stationID	Unique station identifier used in ChargePoint This identifier never changes, even when the station's head assembly is swapped. Format: CPNID:StationIdentifier	String
stationName	Display name of the station (Line 1/Line 2). Line 1 is the name of the organization that owns the station and Line 2 is the name of the station. For example (COULOMB TECH / FRONT LOT 01).	String
stationSerialNum	Station serial number of the hardware	String
stationMacAddr	Station MAC Address of the hardware	String

moreFlag	Indicates that the number of stations that match this query is greater than the maximum number of stations that can be returned in one call (currently 100), and therefore the list was truncated.	Boolean

7.6.4 getStationRights – Sample Input

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:dictionary:com.chargepoint.webservices">
   <soapenv:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">
   <wsse:Security soapenv:mustUnderstand="1">
     <wsse:UsernameToken>
      <wsse:Username>{{username}}</wsse:Username>
      <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
username-token-profile-1.0#PasswordText">{{password}}</wsse:Password>
     </wsse:UsernameToken>
   </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
   <urn:getStationRights>
     <searchQuery>
     </searchQuery>
   </urn:getStationRights>
  </soapenv:Body>
</soapenv:Envelope>
```

7.6.5 getStationRights – Sample Response

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="urn:dictionary:com.chargepoint.webservices">
  <SOAP-ENV:Body>
    <ns1:getStationRightsResponse>
      <responseCode>100</responseCode>
      <responseText>API input request executed successfully.</responseText>
      <rightsData>
        <sgID>12345</sgID>
        <sgName>CAM-1 (CPE250)</sgName>
        <stationRightsProfile>detailed_usage_viewer</stationRightsProfile>
        <stationData>
          <stationID>1:12345</stationID>
          <stationName>CHARGEPOINT / HQ</stationName>
          <stationSerialNum>12345</stationSerialNum>
          <stationMacAddr>12:34:56C</stationMacAddr>
          <companyID>1:1</companyID>
        </stationData>
      <moreFlag>1</moreFlag>
    </ns1:getStationRightsResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

7.7 getStationRightsProfile

Use this call to retrieve a list of tasks you can perform on a specified group of stations.

7.7.1 Restrictions

None.

7.7.2 Input Parameters

Parameter	Description	Required/ Optional	Type
sgID	Custom station group identifier	Required	Integer
stationRightsProfile	The role which defines what kind of rights have been allocated the user on the group	Optional	String

7.7.3 Response Parameters

Parameter	Description	Type
taskList	List of tasks for which the company has rights on a custom station group	String
Task	Description of task that can be accessed on this station group	String

7.7.4 getStationRightsProfile – Sample Input

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:dictionary:com.chargepoint.webservices">
   <soapenv:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">
   <wsse:Security soapenv:mustUnderstand="1">
     <wsse:UsernameToken>
      <wsse:Username>{{username}}</wsse:Username>
      <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
username-token-profile-1.0#PasswordText">{{password}}</wsse:Password>
     </wsse:UsernameToken>
   </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
   <urn:getStationRightsProfile>
      <sgID>12345</sgID>
   </urn:getStationRightsProfile>
  </soapenv:Body>
</soapenv:Envelope>
```

7.7.5 getStationRightsProfile – Sample Response

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="urn:dictionary:com.chargepoint.webservices">
  <SOAP-ENV:Body>
    <ns1:getStationRightsProfileResponse>
      <responseCode>100</responseCode>
      <responseText>API input request executed successfully.</responseText>
      <taskList>
        <Task>station_info_view</Task>
        <Description></Description>
      </taskList>
    </ns1:getStationRightsProfileResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

8 Network Management API

The Network Management API is for service provider-centric applications in which clients can perform operations and retrieve information on charging stations.

Summary of Network Management API calls:

- getAlarms
- clearAlarms

These API calls are detailed on the following pages.

8.1 getAlarms

Use this call to retrieve a list of station alarms.

8.1.1 Restrictions

You must have access rights to the stations specified in the call.

Each call returns a maximum of 100 sessions.

8.1.2 Input Parameters

Parameter	Description	Required/ Optional	Type
orgID	Organization identifier Format: CPNID:orgID	Optional	Integer
organizationName	Name of organization requesting alarms.	Optional	String
stationID	Unique station identifier used in ChargePoint This identifier never changes, even when the station's head assembly is swapped. Format: CPNID:StationIdentifier	Optional	Integer
stationName	Name of the station for which alarms are requested	Optional	String
sgID	Custom station group identifier	Optional	Integer
sgName	Name of custom station group	Optional	String
startTime	Start date and time of time interval Alarms that occurred within this interval should be returned.	Optional	DateTime

endTime	End date and time of time interval Alarms that occurred within this interval should be returned.	Optional	DateTime
portNumber	Port identifier for which alarms should be returned	Optional	String

8.1.3 Response Parameters

Parameter Name	Description	Type
stationID	Unique station identifier used in ChargePoint This identifier never changes, even when the station's head assembly is swapped. Format: CPNID:StationIdentifier	Integer
stationName	Name of the station	String
stationModel	Station model number	String
sgID	Custom station group identifier	Integer
stationModelNum	Model number of station	String
orgID	Organization identifier Format: CPNID:orgID	Integer
companyID	Company identifier	Integer
organizationName	Name of the organization	String
stationManufacturer	Station manufacturer	String
stationSerialNum	Serial number of the station	String
alarmType	Type of the alarm	String
alarmTime	Date and time at which alarm occurred	DateTime
portNumber	Port identifier	String
recordNumber	Index of the record in the result set	Integer

moreFlag	Indicates that there are more stations remaining based on filters The startRecord parameter should be used to retrieve the remaining stations.	Boolean

8.1.4 getAlarms – Sample Input

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:dictionary:com.chargepoint.webservices">
   <soapenv:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">
   <wsse:Security soapenv:mustUnderstand="1">
     <wsse:UsernameToken>
      <wsse:Username>{{username}}</wsse:Username>
      <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
username-token-profile-1.0#PasswordText">{{password}}</wsse:Password>
     </wsse:UsernameToken>
   </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
   <urn:getAlarms>
     <searchQuery>
     </searchQuery>
   </urn:getAlarms>
  </soapenv:Body>
</soapenv:Envelope>
```

8.1.5 getAlarms – Sample Response

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="urn:dictionary:com.chargepoint.webservices">
  <SOAP-ENV:Body>
    <ns1:getAlarmsResponse>
      <responseCode>100</responseCode>
      <responseText>API input request executed successfully.</responseText>
      <Alarms>
        <stationID>1:119901</stationID>
        <stationName>CHARGEPOINT / HQ 27</stationName>
        <stationModel>CT4020-HD</stationModel>
        <orgID>1:ORG00000</orgID>
        <companyID>1:0</companyID>
        <organizationName>ChargePoint Headquarters</organizationName>
        <stationManufacturer></stationManufacturer>
        <stationSerialNum>12345</stationSerialNum>
        <portNumber>2</portNumber>
        <alarmType>fault cleared</alarmType>
        <alarmTime>2022-07-25T05:21:57Z</alarmTime>
        <recordNumber>1</recordNumber>
      </Alarms>
      <moreFlag>1</moreFlag>
    </ns1:getAlarmsResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

8.2 clearAlarms

Use this call to clear current alarms and move them to historical alarms.

8.2.1 Restrictions

You must have access rights to the stations for which you want to clear alarms.

8.2.2 Input Parameters

Parameter	Description	Required/ Optional	Type
orgID	Organization identifier Format: CPNID:orgID	Required	Integer
organizationName	Name of organization requesting alarms.	Required	String
stationID	Unique station identifier used in ChargePoint This identifier never changes, even when the station's head assembly is swapped. Format: CPNID:StationIdentifier	Optional	String
stationName	Name of the station for which alarms are requested	Optional	String
sgID	Custom station group identifier	Optional	Integer
sgName	Name of custom station group	Optional	String
startTime	Start date and time of time interval Alarms that occurred within this interval should be returned.	Optional	DateTime
endTime	End date and time of time interval Alarms that occurred within this interval should be returned.	Optional	DateTime
portNumber	Port identifier for which alarms should be returned	Optional	String
alarmType	Type of alarm	Optional	String
clearReason	Reason for moving alarm to historical alarms	Optional	String

8.2.3 Response Parameters

None.

8.2.4 clearAlarms – Sample Input

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:dictionary:com.chargepoint.webservices">
   <soapenv:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">
   <wsse:Security soapenv:mustUnderstand="1">
     <wsse:UsernameToken>
      <wsse:Username>{{username}}</wsse:Username>
      <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
username-token-profile-1.0#PasswordText">{{password}}</wsse:Password>
     </wsse:UsernameToken>
   </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
   <urn:clearAlarms>
     <searchQuery>
        <companyID>1:ORG00000</companyID>
        <organizationName>ChargePoint Headquarters</organizationName>
     </searchQuery>
   </urn:clearAlarms>
  </soapenv:Body>
</soapenv:Envelope>
```

8.2.5 clearAlarms – Sample Response

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="urn:dictionary:com.chargepoint.webservices">
  <SOAP-ENV:Body>
    <ns1:clearAlarmsResponse>
      <responseCode>100</responseCode>
      <responseText>API input request executed successfully.</responseText>
    </ns1:clearAlarmsResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

9 Driver Management API

The methods in the Driver Management API allow you to interact with driver data in an automated fashion. This is particularly useful for large organizations, which need to integrate this driver information stored in ChargePoint with their own backend systems.

Summary of Driver Management API Calls:

- getUsers
- updateUserStatus
- setWaitlistDone

9.1 getUsers

Use this method to get a list of connected or managed drivers. If your organization uses ChargePoint Connections, this method will return the list of all drivers who have requested a connection with your organization, as well as a list of all drivers who have either been approved or rejected as connected drivers. If your organization uses a branded ChargePoint portal to sign up drivers, then those drivers will appear in your management realm, and the list of those drivers will be returned by this method.

9.1.1 Restrictions

This method only returns Connected Drivers in your organization. Additionally, if you have set up multiple connections, the getUsers command will return the users from the first connection.

9.1.2 Input Parameters

Parameter	Description	Required/ Optional	Type
userID	Unique identifier of the driver This value is not a driver account number or username.	Optional	String
firstName	First name of the user/driver	Optional	String
lastName	Last name of the user/driver	Optional	String
lastModifiedTimeStamp	Find only records equal to or later than the timestamp of the last change to any property of a user account	Optional	String
Connection	Include this object in the query if you are searching for a driver by their ChargePoint Connection properties	Optional	Complex Type
Status	Use this property to search for all users with a given Connection status	Optional	String

Parameter	Description	Required/ Optional	Type
	This property may be one of the following values: APPROVED, NOT CONNECTED, REJECTED, PENDING		
customInfo	This object contains a key-value-pair of information that the driver provided when connecting to your organization, such as an employee ID or club number	Optional	Complex Type
Key	Name of the key that you wish to use for the search such as "Employee ID" This key name is defined when your Network Administrator defines a Connection Offer for your organization.	Optional	String
Value	Value of this key that the user provided when requesting a Connection with your organization	Optional	String
managementRealm	Include this object if you wish to search for users that are part of the management realm for your organization	Optional	Complex Type
Status	Use this property to search for all users with a given status This property may be one of the following values: APPROVED, NOT MANAGED	Optional	String
credentialID	Use this property to search for users by either the printed serial number from a ChargePoint RFID card or a ChargePoint Mobile App identifier	Optional	String
startRecord	Start index of the first transaction to return in the call that meets the other search criteria If left out of the request, the response starts at index number 1.	Optional	Integer
numUsers	Number of users returned per page The default is 500 users per page but is adjustable to customer preference.	Optional	Integer

9.1.3 Response Parameters

Parameter	Description	Type
lastModifiedTimeStamp	Timestamp of the last change to any property of this user account	String
userID	Unique identifier of the driver This value is not a driver account number or username.	String
firstName	First name of the user/driver	String
lastName	Last name of the user/driver	String
Connection	If the user is connected to, or has requested a Connection to your organization, this object will include the properties of that Connection	Complex Type
Status	Status of the Connection between this user and your organization This property will be one of the following values: APPROVED, NOT CONNECTED, REJECTED, PENDING	String
requestTimeStamp	Timestamp indicating when the user requested a connection with your organization	String
driverEmail	Email Address associated with the driver account. NOTE: This field is only provided in select service plans. Contact ChargePoint API Support if there are any questions.	String
customInfos	This object contains an array of customInfo objects	Array
customInfo	This object contains a key-value-pair of information that the driver provided when connecting to your organization, such as an employee ID or club number	Complex Type
Key	Name of the key for this custom property of the Connection This key name is defined when your Network Administrator defines a Connection offer for your organization.	String
Value	Value of this key that the user provided when requesting a Connection with your organization	String

Parameter	Description	Type
managementRealm	If the user is part of your management realm, this object will include the properties of that association with your organization	Complex Type
Status	Status of the user This property will be one of the following values: APPROVED, NOT MANAGED	String
signupTimeStamp	Timestamp indicating when the user signed up with your organization	String
credentialIDs	This object contains an array of credentialID objects.	Array
credentialID	Printed serial number from a ChargePoint RFID card or a ChargePoint Mobile App identifier	String
homeStationDetails	If the organization is classified as a home program, this complex type will contain details about a home station that is associated with the driver account	Complex Type
stationSerialNumber	Serial number for the home station associated with this driver account	Integer
stationModelNumber	Model Number of the home station that is associated with this driver account	String
stationStatus	Station status to be used to verify that the station is still powered on Valid responses: AVAILABLE, INUSE, UNREACHABLE, UNKNOWN.	String
stationMACAddress	MAC Address of the station associated to the driver account	String
stationActivationDate	Date the station was originally activated by this driver	String
recordNumber	Index of the record in the result set	Integer
moreFlag	Indicates there are more stations remaining based on filters The startRecord parameter should be used to retrieve the remaining stations.	Boolean

9.1.4 getUsers – Sample Input

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:dictionary:com.chargepoint.webservices">
      <soapenv:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">
      <wsse:Security soapenv:mustUnderstand="1">
         <wsse:UsernameToken>
            <wsse:Username>{{username}}</wsse:Username>
            <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-username-token-profile-1.0#PasswordText">{{password}}</wsse:Password>
         </wsse:UsernameToken>
      </wsse:Security>
    </soapenv:Header>
   <soapenv:Body>
      <urn:getUsers>
         <searchQuery>
         </searchQuery>
      </urn:getUsers>
   </soapenv:Body>
</soapenv:Envelope>
```

9.1.5 getUsers – Sample Response

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="urn:dictionary:com.chargepoint.webservices">
  <SOAP-ENV:Body>
    <ns1:getUsersResponse>
      <responseCode>100</responseCode>
      <responseText>API input request executed successfully.</responseText>
      <users>
        <user>
          <lastModifiedTimestamp>2022-02-25T04:43:54Z</lastModifiedTimestamp>
          <userID>28375251</userID>
          <firstName>Andy</firstName>
          <lastName>Ming</lastName>
          <driverEmail>AndyMing@yopmail.com</driverEmail>
          <Connection>
            <Status>APPROVED</Status>
            <requestTimeStamp>2022-05-16T16:23:17Z</requestTimeStamp>
            <ga/>
          </Connection>
          <managementRealm/>
          <credentialIDs>
            <credentialID>123345</credentialID>
          </credentialIDs>
          <homeStationDetails>
            <stationSerialNumber>221441027821</stationSerialNumber>
            <stationStatus>AVAILABLE</stationStatus>
            <stationModelNumber>CPH25</stationModelNumber>
            <stationMacAddress>0987LACAK</stationMacAddress>
            <stationActivationDate>2022-05-13T20:59:07Z</stationActivationDate>
          </homeStationDetails>
          <recordNumber>1</recordNumber>
        </user>
        <moreFlag>1</moreFlag>
      </users>
    </ns1:getUsersResponse>
  </SOAP-ENV:Body>
```

```
</SOAP-ENV:Envelope>
```

9.2 updateUserStatus

In cases where an organization must process a large number of connected or managed drivers, it is desirable to automate the validation process against an existing database of employees, students, tenants, customers, or visitors. This method provides the capability for an organization to approve or reject connection requests from users.

9.2.1 Restrictions

This method will only affect drivers that are connected to your organization or in your Management Realm.

9.2.2 Input Parameters

Parameter	Description	Required/ Optional	Type
userID	Unique identifier of the driver This value is not a driver account number or username.	Required	String
associationType	Indicates if this driver is connected to or managed by your organization Allowed values: CONNECTION and MANAGEMENT_REALM	Required	String
Status	New status value to set for this user Allowed values: APPROVED, REJECTED and REMOVED	Required	String
customText	Optional text that will be put in the email sent to the user	Optional	String

9.2.3 Response Parameters

The response only indicates success or failure of the request.

9.2.4 updateUserStatus – Sample Input

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:dictionary:com.chargepoint.webservices">
   <soapenv:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">
   <wsse:Security soapenv:mustUnderstand="1">
     <wsse:UsernameToken>
      <wsse:Username>{{username}}</wsse:Username>
      <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
username-token-profile-1.0#PasswordText">{{password}}</wsse:Password>
     </wsse:UsernameToken>
   </wsse:Security>
  </soapenv:Header>
  <soapenv:Body>
   <urn:updateUserStatus>
      <userID>12345</userID>
      <associationType>CONNECTION</associationType>
      <Status>APPROVED</Status>
   </urn:updateUserStatus>
  </soapenv:Body>
</soapenv:Envelope>
```

9.2.5 updateUserStatus – Sample Response

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="urn:dictionary:com.chargepoint.webservices">
  <SOAP-ENV:Body>
    <ns1:updateUserStatusResponse>
      <responseCode>100</responseCode>
      <responseText>API input request executed successfully.</responseText>
    </ns1:updateUserStatusResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

9.3 setWaitlistDone

This method allows your organization to notify a driver that their charging session on a Waitlist-enabled station is complete. The session will remain in progress or end depending upon the configuration of the Waitlist policy. You can also customize the text of the notification that will be sent to the driver when this method is called.

9.3.1 Restrictions

This method will only affect sessions in progress on a station that has the Waitlist feature enabled.

9.3.2 Input Parameters

Parameter	Description	Required/ Optional	Type
stationID	Unique identifier of the station where you want to notify the driver that the session is complete Format: CPNID:StationIdentifier	Required	String
portID	Port number on the station where the driver is charging	Required	String
userID	Unique identifier of the driver you wish to notify that the session is complete	Required	String
customMessageText	To customize the first part of the message sent to the driver, add text using this property Mode I message: "<customMessageText> Please move your vehicle within X minutes. There are Y drivers waiting to charge at this station." Where X is the timeout defined in the Waitlist policy and Y is the current number of drivers in the queue. Mode II message: "<customMessageText> We will tell the next person that it is ok to unplug your vehicle and start a new session." If customMessageText is not specified, it will be replaced with "Your vehicle is fully charged."	Optional	String

9.3.3 Response Parameters

The response only indicates success or failure of the request.

9.3.4 setWaitlistDone – Sample Input

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="urn:dictionary:com.chargepoint.webservices">
 <SOAP-ENV:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-secext-1.0.xsd">
  <wsse:Security SOAP-ENV:mustUnderstand="1">
   <wsse:UsernameToken> <wsse:Username>{{username}}</wsse:Username>
    <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
username-token-profile-1.0#PasswordText">{{password}}</wsse:Password>
   </wsse:UsernameToken>
  </wsse:Security>
 </SOAP-ENV:Header>
 <SOAP-ENV:Body>
  <ns1:setWaitlistDone>
   <stationID>1:1234</stationID>
   <portID>1</portID>
   <userID>123412341234</userID>
   <customMessageText>Your car has drawn 10kWh of energy, which is the maximum allowed
on this campus, and you are now done charging.</customMessageText>
  </ns1:setWaitlistDone>
 </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

9.3.5 setWaitlistDone – Sample Response

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
 <SOAP-ENV:Header>
  <wsse:Security xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-secext-1.0.xsd" SOAP-ENV:mustUnderstand="1"/>
 </SOAP-ENV:Header>
 <SOAP-ENV:Body>
  <ns1:setWaitlistDoneResponse xmlns:ns1="urn:dictionary:com.chargepoint.webservices"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
   <responseCode>100</responseCode>
   <responseText/>
  </ns1:setWaitlistDoneResponse>
 </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

10 Fleet Management API

The Fleet Management API is to support fleet charging. These APIs allow fleet operators to manage fleet vehicles and retrieve usage data.

Summary of Fleet Management API calls:

- addFleetVehicle
- deleteFleetVehicle
- updateFleetVehicle
- getFleetVehicles
- getFleetVehiclesUsageData

These API calls are detailed on the following pages.

10.1 addFleetVehicle

Use this call to add new fleet vehicles via the API. The user will provide either a RFID SN or NCID to associate it with the vehicle. Multiple vehicles will be allowed to be entered in a single method call.

10.1.1 Input Parameters

Parameter	Description	Required/ Optional	Type
ChargePointCards	Cards to link to the vehicle Either serial number or RFID is required for each card.	Required	Array of objects
ChargePointCardSN	Serial number of a card to attach to the vehicle where the serial number is printed on the back of the ChargePoint card	Optional	String
MIFAREID	RFID of card to attach to the vehicle where the RFID is the Mifare code returned by the card when using a supported Mifare reader	Optional	String
LicensePlate	License plate for fleet vehicle to add	Required	String
FleetName	Name of the fleet to add this vehicle to	Required	String
vehicleID	Vehicle identifier to set for fleet vehicle to add	Optional	String
VIN	Vehicle identification number for the vehicle	Optional	String
Color	Vehicle color	Optional	String
Make	Vehicle make	Required	String

Model	Vehicle model	Required	String
Year	Year of vehicle's manufacture	Required	Integer
companyCode	Vehicle company code	Optional	String
driverID	Driver identifier to associate with the vehicle, if any	Optional	Integer
vehiclePortMACIDs	List of MAC addresses for each charge port on the vehicle	Optional	Array of objects
vehiclePortMACID	MAC address for a port on the vehicle	Optional	String

10.1.2 Response Parameters

Parameter	Description	Type
fleetVehicleID	Globally unique identifier for the vehicle Format: CPNID:fleetVehicleID	String

10.1.3 addFleetVehicle – Sample Input

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="urn:dictionary:com.chargepoint.webservices">
 <SOAP-ENV:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-secext-1.0.xsd">
  <wsse:Security SOAP-ENV:mustUnderstand="1">
   <wsse:UsernameToken>
<wsse:Username>{{username}}</wsse:Username>
    <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
username-token-profile-1.0#PasswordText">{{password}}</wsse:Password>
   </wsse:UsernameToken>
  </wsse:Security>
 </SOAP-ENV:Header>
 <SOAP-ENV:Body>
  <ns1:addFleetVehicle>
   <vehicle>
       <ChargePointCards>
        <ChargePointCardSN>12345</ChargePointCardSN>
        <MIFAREID>23456</MIFAREID>
       </ChargePointCards>
       <LicensePlate>123456</LicensePlate>
       <fleetName>TestFleet</fleetName>
       <vehicleID>12345</vehicleID>
       <VIN>12345567896464345654367654</VIN>
       <color>Red</color>
       <make>Tesla</make>
       <model>M3</model>
       <year>2018</year>
       <companyCode>12345</companyCode>
       <driverID>12345</driverID>
     <vehiclePortMACIDs>
      <vehiclePortMACID>0000000000000000</vehiclePortMACID>
      <vehiclePortMACID>0000000000000001</vehiclePortMACID>
     </vehiclePortMACIDs>
```

```
   </vehicle>
   <vehicle>
       <ChargePointCards>
        <ChargePointCardSN>12345</ChargePointCardSN>
        <MIFAREID>23456</MIFAREID>
       </ChargePointCards>
       <LicensePlate>123456</LicensePlate>
       <fleetName>TestFleet</fleetName>
       <vehicleID>12345</vehicleID>
       <VIN>12345567896464345654367654</VIN>
       <color>Red</color>
       <make>Tesla</make>
       <model>M3</model>
       <year>2018</year>
       <companyCode>12345</companyCode>
       <driverID>12345</driverID>
   </vehicle>
  </ns1:addFleetVehicle>
 </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

10.1.4 Specific Error Messages

Error Text	Description
Invalid Vehicle Type	Vehicle type provided (make, model, or year) does not match a vehicle on record
Invalid RFID card provided	Vehicle failed to be created due to one or more of the RFID cards being invalid
Fleet not found	Fleet that the vehicle was to be associated with is not accessible to this API user or does not exist

10.2 deleteFleetVehicle

This request will delete a vehicle based on the vehicleID.

10.2.1 Input Parameters

Parameter	Description	Required/ Optional	Type
fleetVehicleID	Globally unique identifier for the vehicle Format: CPNID:fleetVehicleID	Required	String

10.2.2 Response Parameters

The following response parameters are returned for every station that matches your specified search criteria.

Parameter	Description	Type
Results	If delete succeeded or failed	Boolean

10.2.3 deleteFleetVehicle – Sample Request

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="urn:dictionary:com.chargepoint.webservices">
 <SOAP-ENV:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-secext-1.0.xsd">
  <wsse:Security SOAP-ENV:mustUnderstand="1">
   <wsse:UsernameToken><wsse:Username>{{username}}</wsse:Username>
    <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
username-token-profile-1.0#PasswordText">{{password}}</wsse:Password>
   </wsse:UsernameToken>
  </wsse:Security>
 </SOAP-ENV:Header>
 <SOAP-ENV:Body>
  <ns1:deleteFleetVehicle>
      <fleetVehicleID>1:12345</fleetVehicleID>
  </ns1: deleteFleetVehicle >
 </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

10.3 updateFleetVehicle

Allows API users to update multiple fields of a fleet vehicle. Multiple vehicles can be updated in a single call. Only included elements will be updated to the values specified.

10.3.1 Input Parameters

Parameter	Description	Required/ Optional	Type
fleetVehicleID	Globally unique identifier for the vehicle Format: CPNID:fleetVehicleID	Required	String
ChargePointCards	Cards to link to the vehicle Either serial number or NCID is required for each card.	Optional	Array of objects
ChargePointCardSN	Serial number of a card to attach to the vehicle, where the serial number is printed on the back of the ChargePoint card	Optional	String
MIFAREID	RFID of card to attach to the vehicle, where the RFID is the Mifare code	Optional	String

	returned by the card when using a supported Mifare reader		
LicensePlate	License plate for fleet vehicle to add	Optional	String
FleetName	Name of the fleet to add this vehicle to	Optional	String
vehicleID	Vehicle identifier to set for fleet vehicle to add	Optional	String
VIN	Vehicle identification number for the vehicle	Optional	String
Color	Vehicle color	Optional	String
Make	Vehicle make	Optional	String
Model	Vehicle model	Optional	String
Year	Year of vehicle's manufacture	Optional	Integer
companyCode	Vehicle company code	Optional	String
driverID	Driver identifier to associate with the vehicle, if any	Optional	Integer
vehiclePortMACIDs	List of MAC addresses for each charge port on the vehicle	Optional	Array of objects
vehiclePortMACID	MAC address for a port on the vehicle	Optional	String

10.3.2 Response Parameters

Parameter	Description	Type
fleetVehicleID	Globally unique identifier for the vehicle Format: CPNID:fleetVehicleID	String
ChargePointCards	Cards to link to the vehicle	Array of objects
ChargePointCardSN	Serial number of a card to attach to the vehicle	String
MIFAREID	RFID of card attached to the vehicle, where the RFID is the Mifare code returned by the card when using a supported Mifare reader	String
LicensePlate	License plate for fleet vehicle to add	String
FleetName	Name of the fleet to add this vehicle to	String

Parameter	Description	Type
vehicleID	Vehicle identifier to set for fleet vehicle to add	String
VIN	Vehicle identification number for the vehicle	String
Color	Vehicle color	String
Make	Vehicle make	String
Model	Vehicle model	String
Year	Year of vehicle's manufacture	Integer
companyCode	Vehicle company code	String
driverID	Driver ID to associate with the vehicle, if any	Integer

10.3.3 updateFleetVehicle – Sample Request

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="urn:dictionary:com.chargepoint.webservices">
 <SOAP-ENV:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-secext-1.0.xsd">
  <wsse:Security SOAP-ENV:mustUnderstand="1">
   <wsse:UsernameToken>
<wsse:Username>{{username}}</wsse:Username>
    <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
username-token-profile-1.0#PasswordText">{{password}}</wsse:Password>
   </wsse:UsernameToken>
  </wsse:Security>
 </SOAP-ENV:Header>
 <SOAP-ENV:Body>
  <ns1:updateFleetVehicle>
   <vehicle>
       <fleetVehicleID>1:12345</fleetVehicleID>
       <ChargePointCards>
        <ChargePointCardSN>12345</ChargePointCardSN>
        <MIFAREID>23456</MIFAREID>
       </ChargePointCards>
       <License>123456</License>
   </vehicle>
   <vehicle>
     <fleetVehicleID>1:45678</fleetVehicleID>
       <ChargePointCards>
        <ChargePointCardSN>12345</ChargePointCardSN>
        <MIFAREID>23456</MIFAREID>
       </ChargePointCards>
       <License>123456</License>
   </vehicle>
  </ns1:updateFleetVehicle>
 </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

10.3.4 Specific Error Messages

Error Text	Description
Invalid Vehicle Type	Vehicle type provided (make, model, or year) does not match a vehicle type on record
Invalid RFID card provided	Vehicle failed to be updated due to one or more of the RFID cards being invalid
Fleet not found	Fleet that the vehicle was to be associated with is not accessible to this API user or does not exist

10.4 getFleetVehicles

Use this method to retrieve a list of vehicles defined in your fleet.

10.4.1 Restrictions

This method is only available to organizations that have fleet features enabled on their account. If numRecords is not specified, this method will only return 100 vehicles per request.

10.4.2 Input Parameters

Parameter	Description	Required/ Optional	Type
fleetVehicleID	Globally unique identifier for the vehicle. Format: CPNID:fleetVehicleID	Optional	String
fleetName	Name defined for the fleet	Optional	String
vehicleID	Vehicle identifier defined by the fleet manager This value may be the same for two vehicles in two different fleets.	Optional	String
VIN	Vehicle identification number of the vehicle Value must be entered by fleet manager in order to be searchable.	Optional	String
License	License plate number of the vehicle	Optional	String
Color	Color of the vehicle	Optional	String
Make	Make (Manufacturer) of the vehicle	Optional	String
Model	Model of the vehicle	Optional	String

Year	Model year of the vehicle	Optional	Integer
fleetDriverID	Identifier of the driver if one has been assigned to the vehicle	Optional	String
credentialID	Use this property to search by one of the RFID serial numbers assigned to a vehicle	Optional	String
orgID	Organization identifier Format: CPNID:orgID	Optional	String
organizationName	Name of organization	Optional	String
telematicsProvider	If used, the name of the telematics provider	Optional	String
telematicsStatus	Current status of telematics integration for this vehicle It may be one of the following values: Connected, Not Connected	Optional	Enum
companyCode	Code used by the fleet manager to identify the entity to whom the vehicle has been assigned	Optional	String
paymentType	Funding source for this vehicle: Voyager, WEX, ChargePoint Fuel Card, Credit Card, PayPal	Optional	String
paymentStatus	Status of the funding source, if one has been defined for the fleet Possible values: Active, Deleted, Disabled, Expired	Optional	String
startRecord	Start index of the first vehicle returned by the call that meets the other search criteria If left out of the request, the response will start at index number 1.	Optional	Integer
numRecords	Number of vehicles to return in the response If left out of the request, this method will default to 100 vehicles if not specified.	Optional	Integer

modifiedSince	If specified, this method will only return records, which have been modified on or after the provided timestamp.	Optional	DateTime

10.4.3 Response Parameters

The following response parameters are returned for every station that matches your specified search criteria. The results for the vehicleChargingStatus will be based on the current state of the vehicle, if it is known. The "Charged" response will only be given if the car has stopped drawing power after some initial charging but the car has not been unplugged.

Parameter	Description	Type
recordNumber	Index of the record in the result set	Integer
lastModifiedTimestamp	Timestamp of the last change to any configuration property of the vehicle This includes changes to the telematicsStatus property.	DateTime
fleetVehicleID	Globally unique identifier for the vehicle Format: CPNID:fleetVehicleID	String
fleetName	Name defined for the fleet	String
vehicleID	Vehicle identifier defined by the fleet manager This value may be the same for two vehicles in two different fleets.	String
VIN	Vehicle identification number of the vehicle Value must be entered by the fleet manager in order to be searchable.	String
License	License plate number of the vehicle	String
Color	Color of the vehicle	String
Make	Make (manufacturer) of the vehicle	String
Model	Model of the vehicle	String
Year	Model year of the vehicle	Integer

Parameter	Description	Type
fleetDriverID	Identifier of the driver, if one has been assigned to the vehicle	String
credentialIDs	List of all credential IDs associated with this vehicle	Array
credentialID	Identifier of a credential associated with this vehicle If this is a ChargePoint RFID card, it is the printed serial number on the back of the card.	String
orgID	Organization identifier Format: CPNID:orgID	String
organizationName	Name of organization	String
telematicsProvider	If used, the name of the telematics provider	String
telematicsStatus	Current status of telematics integration for this vehicle It may be one of the following values: Connected, Not Connected	Enum
companyCode	Code used by the fleet manager to identify the entity to whom the vehicle has been assigned	String
paymentType	Funding source for this vehicle: Voyager, WEX, ChargePoint Fuel Card, Credit Card, PayPal	Enum
paymentStatus	Status of the funding source, if one has been defined for the fleet Possible values: Active, Deleted, Disabled, Expired	Enum
vehicleChargingStatus	Current state of the vehicle charging Possible values: Charging, Charged, Not Plugged In, Fault	Enum
moreFlag	Indicates that there are more stations remaining based on filters The startRecord parameter should be used to retrieve the remaining stations.	Boolean

10.4.4 getFleetVehicles – Sample Input

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="urn:dictionary:com.chargepoint.webservices">
<SOAP-ENV:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-secext-1.0.xsd">
 <wsse:Security SOAP-ENV:mustUnderstand="1">
   <wsse:UsernameToken>
<wsse:Username>{{username}}</wsse:Username>
      <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
username-token-profile-1.0#PasswordText">{{password}}</wsse:Password>
   </wsse:UsernameToken>
 </wsse:Security>
</SOAP-ENV:Header>
  <SOAP-ENV:Body>
   <ns1:getFleetVehicles>
     <searchQuery>
      <fleetVehicleID></fleetVehicleID>
      <fleetName>Delivery Fleet</fleetName>
      <vehicleID></vehicleID>
      <VIN></VIN>
      <license></license>
      <color></color>
      <make></make>
      <model></model>
      <year></year>
      <fleetDriverID></fleetDriverID>
      <credentialID></credentialID>
      <orgID></orgID>
      <organizationName></organizationName>
      <telematicsProvider></telematicsProvider>
      <telematicsStatus></telematicsStatus>
      <companyCode></companyCode>
      <paymentType></paymentType>
      <paymentStatus></paymentStatus>
      <startRecord></startRecord>
      <numRecords></numRecords>
      <modifiedSince></modifiedSince>
     </searchQuery>
   </ns1:getFleetVehicles>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

10.4.5 getFleetVehicles – Sample Response

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header>
   <wsse:Security soapenv:mustUnderstand="1" xmlns:wsse="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"/>
  </soapenv:Header>
  <soapenv:Body>
   <ns1:getFleetVehiclesResponse
xmlns:ns1="urn:dictionary:com.chargepoint.webservices">
     <responseCode>100</responseCode>
     <responseText>API input request executed successfully.</responseText>
     <FleetVehicle>
      <recordNumber>1</recordNumber>
      <lastModifiedTimestamp>2016-11-01T12:34:57Z</lastModifiedTimestamp>
      <fleetVehicleID>1:7890</fleetVehicleID>
      <fleetName>Delivery Fleet</fleetName>
      <vehicleID>1234</vehicleID>
```

```
      <VIN>1A2BC3DE4FG123456</VIN>
      <license>333ABC</license>
      <color>White</color>
      <make>Nissan</make>
      <model>LEAF</model>
      <year>2015</year>
      <fleetDriverID>A12345</fleetDriverID>
      <credentialIDs>
        <credentialID>CNCP0000123456</credentialID>
        <credentialID>CNCP0000789012</credentialID>
      </credentialIDs>
      <orgID>ORG12345</orgID>
      <organizationName>My EV Delivery Service, Inc.</organizationName>
      <telematicsProvider>FleetCarma</telematicsProvider>
      <telematicsStatus>Active</telematicsStatus>
      <companyCode>CUST12345</companyCode>
      <paymentType>Voyager</paymentType>
      <paymentStatus>Active</paymentStatus>
      <vehicleChargingState>Not Plugged In</vehicleChargingState>
     </FleetVehicle>
     <FleetVehicle>
      <fleetName>Delivery Fleet</fleetName>
     </FleetVehicle>
     <moreFlag>1</moreFlag>
   </ns1:getFleetVehiclesResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

10.5 getFleetUsageData

Use this method to retrieve usage and transaction details for fleet vehicles that you have the rights to view. This includes data from stations that are in your organization and stations that are activated in other organizations, such as public stations where the fleet vehicles might charge when away from the depot.

10.5.1 Restrictions

This method is only available to organizations that have fleet features enabled on their account. If numRecords is not specified, this method will only return 100 transaction records per request.

10.5.2 Input Parameters

Parameter	Description	Required/ Optional	Type
transactionID	Unique identifier for the transaction	Optional	Integer
transactionType	Indicates the type of transaction: Session, Reservation, Reservation Cancel, Reservation Usage Addendum	Optional	Enum
fleetVehicleID	Globally unique identifier for the vehicle Format: CPNID:fleetVehicleID	Optional	String

Parameter	Description	Required/ Optional	Type
fleetName	Name defined for the fleet	Optional	String
vehicleID	Vehicle identifier defined by the fleet manager This value may be the same for two vehicles in two different fleets.	Optional	String
License	License plate number of the vehicle	Optional	String
fleetDriverID	Identifier of the driver, if one has been assigned to the vehicle	Optional	String
credentialID	Identifier of the credential used to start the session If it was a ChargePoint RFID card, it is the printed serial number on the card. If it was the ChargePoint Mobile App, it will be the identifier displayed in the user's app.	Optional	String
fleetOrgID	Identifier of the organization under which the fleet vehicles are defined Format: CPNID:orgID	Optional	String
fleetOrgName	Name of the organization under which the fleet vehicles are defined	Optional	String
fraudDetectionStatus	If in use for this fleet, this property indicates the status of the fraud detection system for this transaction Possible values: Session Validated, Fraud Detected	Optional	Enum
fromTimeStamp	Return all usage data, which has a start time after this time	Optional	DateTime
toTimeStamp	Return all usage data, which has an end time before this time	Optional	DateTime
stationOrgName	Name of the organization that owns the station Format: CPNID:orgID	Optional	String

Parameter	Description	Required/ Optional	Type
stationName	Name of the station where the transaction occurred	Optional	String
Address	Address where the transaction occurred	Optional	String
City	City where the station(s) are located	Optional	String
State	State where the station(s) are located	Optional	String
postalCode	Postal (i.e., zip) code where the station(s) are located	Optional	String
Country	Country where station(s) are located	Optional	String
paymentType	Indicates the type of payment source that was used Possible values: Voyager, WEX, ChargePoint Fuel Card, Credit Card, PayPal	Optional	Enum
startRecord	Start index of the first record returned by the call that meets the other search criteria If left out of the request, the response will start at index number 1.	Optional	Integer
numRecords	Number of records to return in the response If left out of the request, this method will default to 100 transactions if not specified.	Optional	Integer

10.5.3 Response Parameters

The following response parameters are returned for every station that matches your specified search criteria.

Parameter	Description	Type
recordNumber	Index of the record in the result set	Integer
fleetVehicleID	Globally unique identifier for the vehicle Format: CPNID:fleetVehicleID	String
fleetName	Name defined for the fleet	String

Parameter	Description	Type
vehicleID	Vehicle identifier defined by the fleet manager This value may be the same for two vehicles in two different fleets.	String
License	License plate number of the vehicle	String
fleetDriverID	Identifier of the driver, if one has been assigned to the vehicle	String
credentialID	Identifier of the credential used to start the session If it was a ChargePoint RFID card, it is the printed serial number on the card. If it was the ChargePoint Mobile App, it will be the identifier displayed in the user's app.	String
fleetOrgID	Identifier of the organization under which the fleet vehicles are defined Format: CPNID:orgID	String
fleetOrgName	Name of the organization under which the fleet vehicles are defined	String
fraudDetectionStatus	If in use for this fleet, this property indicates the status of the fraud detection system for this transaction Possible values: Session Validated, Fraud Detected	Enum
transactionID	Unique identifier for the transaction	Integer
transactionType	Indicates the type of transaction: Session, Reservation, Reservation Cancel, Reservation Usage Addendum	Enum
transactionTime	Timestamp of when the transaction was reported to the ChargePoint cloud by the station	DateTime
Energy	Total energy for the session in kWh	Float
gasolineSavings	Gallons of gas avoided by driving an electric vehicle Calculation is based on average.	Float
ghgSavings	Kilograms of greenhouse gases avoided by driving an electric vehicle	Float

Parameter	Description	Type
fleetCustomerID	If specified, this is the fleet defined customer identifier	String
Odometer	If telematics integration is done with the fleet, this is the odometer reading from the vehicle at the start of the session	Float
startTime	Start time of session	DateTime
endTime	End time of session	DateTime
startSOC	Battery state of charge percentage at the start of the session	Float
endSOC	Battery state of charge percentage at the end of the session	Float
chargingTime	Total time that the vehicle was charging during the session	Time
sessionDuration	Total duration of the session	Time
portType	Indicates type of port used for the session Possible values: AC, DC	Enum
plugType	Indicates the physical plug type used for the session Possible values: NEMA 5-20R, Type 1, Type 2 Socket, Type 2 Cable Attached, CCS Combo Type 1, CCS Combo Type 2, CHAdeMO, Tesla	Enum
Currency	ISO 4217 code for the currency used on the station For example: US Dollar = USD, Canadian Dollar = CAD, Euro = EUR	String
Fee	Total fee paid by driver for the transaction	Float
paymentID	If using the ChargePoint Fuel Card service, this is the unique identifier for the payment card	String

Parameter	Description	Type
paymentSourceAccount	Last 4 digits of the payment source card	String
paymentType	Indicates the type of payment source that was used Possible values: Voyager, WEX, ChargePoint Fuel Card, Credit Card, PayPal	Enum
pricingRule	Name of the pricing rule that was applied to the station during the session	String
stationOrgName	Name of the organization that owns the charging station used in the transaction	String
stationName	Name of the station	String
Address	Address where the transaction occurred	String
City	City where the station(s) are located	String
State	State where the station(s) are located	String
postalCode	Postal (i.e., zip) code where the station(s) are located	String
Country	Country where station(s) are located	String

10.5.4 getFleetUsageData – Sample Input

```
<?xml version="1.0" encoding="utf-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:dictionary:com.chargepoint.webservices">
      <soapenv:Header xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-secext-1.0.xsd">
      <wsse:Security soapenv:mustUnderstand="1">
         <wsse:UsernameToken>
            <wsse:Username>{{username}}</wsse:Username>
            <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-username-token-profile-1.0#PasswordText">{{password}}</wsse:Password>
         </wsse:UsernameToken>
      </wsse:Security>
    </soapenv:Header>
   <soapenv:Body>
     <urn:getFleetUsageData>
         <searchQuery>
         </searchQuery>
      </urn:getFleetUsageData>
   </soapenv:Body>
</soapenv:Envelope>
```

10.5.5 getFleetUsageData – Sample Response

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="urn:dictionary:com.chargepoint.webservices">
    <SOAP-ENV:Body>
        <ns1:getFleetUsageDataResponse>
            <responseCode>100</responseCode>
            <responseText>API input request executed successfully.</responseText>
            <fleetUsageData>
                <recordNumber>1</recordNumber>
                <fleetVehicleID>1:7890</fleetVehicleID>
                <fleetName> ABCD </fleetName>
                <vehicleID> ABCD </vehicleID>
                <License> ABCD </License>
                <fleetDriverID></fleetDriverID>
                <credentialID>CNCPxxxxxxx</credentialID>
                <fleetOrgID>1:ORGxxxxx</fleetOrgID>
                <fleetOrgName>ABCD</fleetOrgName>
                <fraudDetectionStatus>Unknown (not enabled)</fraudDetectionStatus>
                <transactionID> Example </transactionID>
                <transactionType>Session</transactionType>
                <transactionTime>1990-08-12T15:56:58Z</transactionTime>
                <Energy>1.3426</Energy>
                <gasolineSavings>0.1684963</gasolineSavings>
                <ghgSavings>0.563892</ghgSavings>
                <fleetCustomerID></fleetCustomerID>
                <Odometer>0</Odometer>
                <startTime>1990-08-12T15:43:59Z</startTime>
                <endTime>1990-08-12T15:56:56Z</endTime>
                <startSOC>0</startSOC>
                <endSOC>0</endSOC>
                <chargingTime>00:12:36</chargingTime>
                <sessionDuration>00:12:58</sessionDuration>
                <portType>AC</portType>
                <plugType>J1772</plugType>
                <Currency>USD</Currency>
                <Fee>0</Fee>
                <paymentID></paymentID>
                <paymentSourceAccount></paymentSourceAccount>
                <paymentType>Free</paymentType>
                <pricingRule></pricingRule>
                <stationOrgName>Station</stationOrgName>
                <stationName>Station Name</stationName>
                <Address>123 Street</Address>
                <City>City</City>
                <State>CA</State>
                <postalCode>00000</postalCode>
                <Country>United States</Country>
                <VIN></VIN>
                <stationID></stationID>
                <portNumber>1</portNumber>
                <ID>1:C:Example:S</ID>
            </fleetUsageData>
```

11 Push Framework [Removed]

Push framework APIs have been deprecated and not recommended for your application.