

Version 25



Trapeze

Enterprise Asset Management

ChargePoint

Configuration Guide

Trade Secret | February 2025

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Technical Support

Trapeze provides several ways to connect with the Customer Care team. Please provide detailed information to the representative. If you are reporting an issue by e-mail, include any error messages, screen shots of your problem, and steps to replicate the issue.

Customer Care is available Monday through Friday, 8:00 a.m. to 8:00 p.m., Eastern Standard Time.

Toll-Free Telephone: 1-877-411-8727

E-mail: cc@trapezegroup.com

FTP Site: <https://ftps.trapezegroup.com/>

Web Site: <https://collaborate.trapezegroup.com>

The website provides access to Trapeze Collaborate which offers resources to implement and operate the software, search knowledge, participate in communities, log/track service requests, sign-up for release alerts, view product health recommendations, and download updates or documentation. For secure access to Collaborate, contact Customer Care through the website or by calling the number above.

Product Compatibility

Refer to the latest [Product Compatibility](#) information on Trapeze Collaborate for requirements including operating system information, databases, Crystal reports, network protocol, HTTP servers and browsers that are supported.

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1. Overview

Clients can use ChargePoint electric vehicle charging stations. This integration extracts Electric Vehicle (EV) usage data from ChargePoint's cloud web services and imports charging transactions into the internal FleetFocus system. Electric charges with electric charging data are posted into fueling tickets. This is an out-of-the-box MAXQueue interface to request reported fleet usage changing data and create Internal Fuel Tickets screen.

2. Setup

Use the following setup information to set up the base ChargePoint information.

Requirements

The following items are required to use the ChargePoint services.

MAXQueue

- Install MAXQueue base
- Install MAXQueue.ElectricVehicle.dll
- Install the ChargePoint MAXQueue package
- Configure each MAXQueue ChargePoint interface service
- EVFocus license key (module ID: 83).

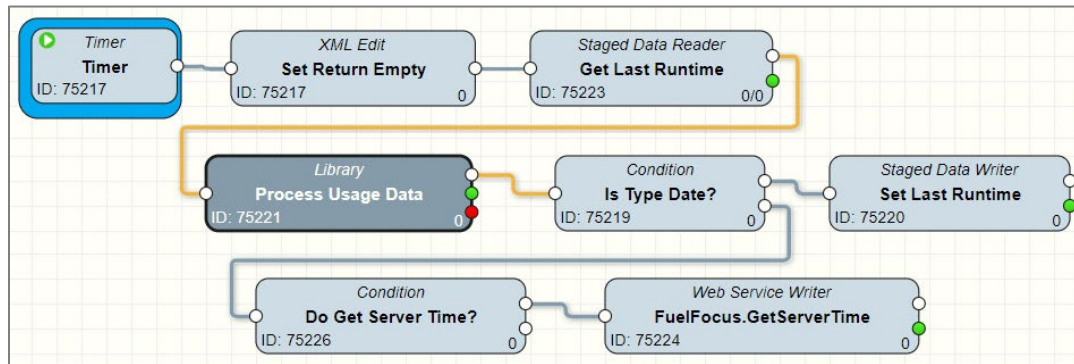
Global Variables

Variable	Value
vars.FAUser	Enter the internal system User (used by MAXQueue for the internal system posting)
vars.FAPassword	Enter Password for the internal system user
vars.ODBCName	Enter valid ODBC name
vars.ODBCUser	Enter valid ODBC user
vars.ODBCPassword	Enter valid ODBC user password

3. Fleet Usage Data Import

This service runs periodically and retrieves the last run time of the service from the MAXQ_staging table. This uses MAXQ_staging.EventType set as CP_UsageDataImport. The service then contacts the ChargePoint Fleet Management - getFleetUsageData endpoint web service and requests fleet usage data within the date range from the last run time to the current datetime. Each request uses a batch maximum number of records parameter (vars.BatchRecordNumber) and continues repeating until the request has finished and all available records have been retrieved. Records that were successfully processed are stored the following database tables:

- Fuel_Transactions
- Fuel_Trans_Data
- Fuel_Queue



Transactions found in the fuel queue are processed by the FuelFocus web service GetServerTime request called at the end of the workflow.

- Internal and external fuel tickets are distinguished by the StationOrgName value in the response.
 - If this value matches the vars.StationOrgName MAXQueue service variable configuration setting it is considered an internal fuel ticket.
 - If the value does not match it is considered an external fuel ticket.
- The MAXQueue Service vars.EnableExternalFuelTickets setting determines if external fuel transaction are ignored. When adding transactions to the FUEL_TRANSACTION table, the Trans_Type is set to PRODUCTISSUEDEVEXTERNAL for EXTERNAL and PRODUCTISSUEDEV for INTERNAL fuel transaction.
 - If set to **Y**, the interface processes the external fuel tickets transactions. This is the default setting.
 - If set to **N**, the interface ignores the external transactions.

Currently the fuel transaction ID (Fuel_Transactions.ID) value does not include an ICU value.

Configuration

Interface Configuration

Use the following information to set up the required data for the ChargePoint Fleet Usage Data Import service.

1. On the Units of Measure screen, create a unit of measure (for example KWH).
2. On the Fuel Types screen, create a fuel type (for example KWH), with a **Post to** value of **ELECTRIC**, and the **Unit of measure** set as **KWH**.
3. On the Location – Primary Information screen, create a location ID if one is not created already.
4. On the Fueling Sites screen, create fueling sites (site IDs) for each electric charging station. The site IDs are cross referenced to ChargePoint's station name using the External Data Mapping screen.
5. On the External Data Mapping screen, create an external data mapping record for each fueling site ID created in the previous step. The internal ID is the site ID, and the external ID is the assigned ChargePoint station name. Set the data type to **LOCATION** and Mapping to **EV STATION NAME TO SITE ID**.
6. Create one external data mapping record for external transactions (this will assist in differentiating between internal and external fuel transactions).

The suggested External ID is **ALL EXTERNAL DDU**. This is used as the value for the MAXQueue vars.ExternalSiteMappingID service setting.

7. On the Fueling Sites screen, create a fueling site for the site ID, different from the one used in the previous step.
8. On the Fuel/Fluid Tanks screen, create a Fuel/Fluid Tank using the previous Fuel Type and the desired Location ID. Ensure the following options are checked: **Active**, Current Inventory -> 'Override unit price on fuel ticket' option is checked, leave Tank capacity 0, and all other fields to default values.
9. Create pumps for the tank ID previously created, and set the site ID as the charging station name
10. In the Fueling – Setup – Options screen, ensure the **Do not require meter readings on internal fuel tickets** setting is checked if ChargePoint's Telematics module is not being used.
11. Set up an (Electric) Equipment ID.

12. The Fuel Tickets option must be enabled.
13. Must be authorized with the fuel type previously created or **Supports any fuel or fluid type** enabled, capacity must be set, and the maximum quantity issued within calendar period.
14. FuelFocus settings are enforced in the Codes section.

Configure the Variables

In MAXQueueDesigner on the Settings tab, create (or verify if they already exist) the following variables:

Instance Variables

Variable	Value
vars.FleetOrgID	ChargePoint defined organization ID
vars.UsernameToken	ChargePoint defined username token
vars.UsernamePasswordToken	ChargePoint defined password token
vars.CpWebServicesURL	https://webservices.chargepoint.com/webservices/chargepoint/services/5.1 (ChargePoint Web Services Endpoint URL - do not change unless directed by your support provider)
vars.CpXmlEnvelopeNs1	Urn:dictionary:com.chargepoint.webservices (do not change unless directed by your support provider)
vars.FAInfoCenterURL	The internal system host name, for example: "http://localhost/InfoCenter"
vars.NumberDaysBack	The number of days to go back for ChargePoint usage transactions when no record is found in MAXQ_STAGING. The default setting is 200.
vars.BatchRecordNumber	Number of usage ticket records to retrieve from ChargePoint at a time. The default setting is 500.
vars.TestON	If this is set to N , the system calls the ChargePoint endpoint web service. If this is Y , the system does not request fleet usage data from the ChargePoint web endpoint, but reads the xml data found in \MAXQueue\DataFiles\GetFleetUsageDataResponse.xml.
vars.StationOrgName	ChargePoint defined organization name
vars.EnableExternalFuelTickets	Set this as Y to enable processing of external fuel tickets. Set as N to ignore external transactions.

Variable	Value
vars.ExternalSiteMappingID	Set this to map an external fuel transaction to an internal fueling site defined in the internal system in the External Data Mapping screen.

Configure the Adapters

Timer: This setting determines how often the service runs.