

## QUESTION:

I have a fleet of 50 vehicles, and we recently decided to change their labels using a better naming convention. How can I easily update the vehicles' labels in a batch process as opposed to editing each vehicle one at a time?


You can add or edit your portal data ad-hoc or via spreadsheet import. Spreadsheet import is helpful for performing these types of batch functions. If you use the Spreadsheet Import tools, it's ALWAYS a good practice to first export the data for safe-keeping so that you can restore if you make a mistake in your import. Or in the case of updating labels, we need to start with the existing data that we want to update.

## Formatting Tips

Before starting the import process for a particular spreadsheet, become familiar with the following formatting tips:

- The maximum number of rows spreadsheet upload accepts is 1,500. If your spreadsheet has more than this number, it is recommended to break it up and perform multiple uploads for each group of 1,500 until it is complete.
- Updating information via spreadsheet upload requires that the spelling/punctuation/spacing for the "Reference" unique identifier matches exactly the data in the portal. Here are a couple examples:
  - a. If you are updating vehicle information, the VIN or serial number must be exactly what is in the system for reference. That includes spacing, dashes etc.
  - b. If you are updating an Attribute called "Car Color," your spreadsheet header cell, which has all the attributes listed beneath it, must be spelled/formatted exactly the same as the Attribute in the system. If you accidentally titled the spreadsheet column "Car Colors" with an added "s," the upload will not be successful.

Attribute Definitions						
Click on the Attribute Type checkmark to assign.						
Attribute						
Access Codes	✗	✗	✗	✓	✗	
Accessories	✗	✓	✗	✗	✗	
Alert email address	✗	✗	✗	✗	✓	
Alert Notification Paula	✗	✗	✗	✗	✓	
Bay Type	✗	✓	✗	✗	✗	
Boom Height	✗	✓	✗	✓	✗	
Business Name	✗	✗	✗	✓	✗	
Car Color	✗	✓	✗	✗	✗	



	A	B
1	VIN	Car Color
2	12345678jklio	Red
3	20890802093	Blue
4	20980298939	Green

- Spreadsheet upload accepts either CSV or XLS files. There should not be multiple tabs or formulas in your excel spreadsheet, and CSV format is preferred as it is usually the cleanest data format with standard text.

# How do I import or export data?

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- Change the headers in your spreadsheet to match the headers shown in the CSV Example.
- Certain types of data, like usernames or VINs are considered unique. If your spreadsheet has duplicate data rows, like two usernames listed and each with a different phone number, the spreadsheet upload will overwrite the data with the last row of data. Example:

A	B	C	D	E	F	G	H
Username	Password	Full Name	Email Address	City	State	Zip	Phone Number
jdoe	1111	John Doe	test@ing.com				888-888-8888
jdoe	1111	John Doe	test@ing.com				999-999-9999

- There are unique characters to signify separation between multiple items within a cell. For instance, a user may need access to multiple vehicle hierarchy nodes.

I	J
Hierarchy Permissions	Hierarchy Permission Types
Arizona~1:Utah~1	vehicles:drivers

- ~ is the delimiter for full path for hierarchy. Example: Company Name~East~Northeast. The ~2 in cell for hierarchy specifies the node depth. That user would have access to the final Node "Northeast" in the hierarchy. Use the ~ when the nodes are not unique names or there are multiple trees with non-unique node names.
  - : is the delimiter for multiple assignments. Example: Vehicles:Drivers. This user would be designated permissions to view vehicles and drivers.
  - ; is the delimiter for multiple items. Example: Red;Grey. Attribute upload for a vehicle that has a car color of both red and grey.
  - If the nodes are unique and not repeated across multiple trees, no delimiter would be needed. Or, if only one item is listed in a cell, no delimiter is needed.
  - In the case of hierarchy paths, if there are multiple paths listed, the delimiters can be used together. Example: East~Northeast:East~Southeast
- For Hierarchy Update and Attribute Update imports, the "Hierarchy Tree" and "Attribute Name" column cell headers must be changed to match the data in the portal in order to properly update those specific areas within the system. The rest of the headers in your spreadsheet can stay as listed in the example. Hierarchy Example:

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### Hierarchies

Select the hierarchy you wish to edit

Eastern Division

Refresh

Delete

+ Create a New Hierarchy Tree

### Spreadsheet Example

	A	B
1	VIN or Serial Number	Tree Node
2	GT454GG	mytree
3		
4		

### Branches

Create and edit logical groups in the hierarchy.

Eastern Division

Phoenix

(3)

Delivery

Maintenance

Management

Service

Scottsdale

(6)

### Change the Column to Match the Hierarchy Name

	A	B
1	VIN or Serial Number	Eastern Division
2	GT454GG	Service
3	yT454G4	Delivery
4	rT454G6	Maintenance
5	IT454G7	Service
6	kT454GG	Management

Attribute Example:

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Spreadsheet Example

	A	B
1	VIN or Serial Number	Attribute Value
2	AZ4522344	my_atribute_value1;my_atribute_value2
3		

Change the Column Name to Match the Attribute Name

Attribute Definitions

Click on the Attribute Type checkmark to assign.

Attribute						
Access Codes	×	×	×	✓	×	
Accessories	×	✓	×	×	×	
Alert email address	×	×	×	×	✓	
Alert Notification Paula	×	×	×	×	✓	
Bay Type	×	✓	×	×	×	
Boom Height	×	✓	×	✓	×	
Business Name	×	×	×	✓	×	
Car Color	×	✓	×	×	×	

	A	B
1	VIN	Car Color
2	12345678jkllo	Red
3	20890802093	Blue
4	20980298939	Green

- For Hierarchy Update and Attribute Update imports, only one column at a time can be updated. For example, you would perform the update process twice to update the Car Color then the Car Type attribute. Choose --Ignore-- for one of the attributes during each upload so only one is used at a time. The same rule applies for hierarchy trees.

	A	B	C
1	VIN or Serial Number	Car Color	Car Type
2	AZ4522344	Red;silver	Truck
3			

- For Hierarchy Update and Attribute Update imports, the "Reference" and "Update" drop-downs must be different from the traditional selections for all other spreadsheet updates; they are actually switched. You would select the Attribute or Hierarchy Tree column as the "Reference" (like the Driver Attribute "Driving Skill") and a unique identifier column under the "Update" area (like "Driver Full Name").

### Import Step 2: Define Columns

*This preview shows what columns from your spreadsheet will be imported and allows you to specify explicitly*

First	Last	Full Name	Ref Id	Driving Skill
-- IGNORE --	-- IGNORE --	Driver Full Name	-- IGNORE --	Attribute Value
James	Adamthwaite	-- IGNORE --	JBA595	-- IGNORE --
Alena	Anderson	Reference		Reference
Garrett	Anderson	Attribute Value		Attribute Value
Grant	Anderson	Update		Update
		Attribute Name		Attribute Name
		Driver Full Name		Driver Full Name
				Last Name


Preview the ImportClear Import

## Step-by-Step Process

In this example, we'll stick to the above scenario of updating vehicle labels. Refer to the next section for step-by-step instructions related to other spreadsheet actions.

### ► To update vehicle labels via spreadsheet:


1. From the portal, hover over the **Account** menu, click **Manage Vehicles**, and then click **Update/Export items using a spreadsheet**.
2. From the Export Details to Spreadsheet area, choose to export Vehicle Labels/Details to CSV (comma separated values) format, and click **Save To File**. (We'll come back to this file later.)
3. Download a CSV Example template ([#1](#) | [#2](#) | [#3](#)) next to the **Update Vehicle Labels** spreadsheet action.
4. Within the spreadsheet, column names appear in Row 1 and an example record appears in Row 2. Using the file you just exported, replace Row 2+ with your own data. Because the columns will be different than the file you're copying FROM, you may want to copy/paste one column at a time into the Example spreadsheet.




**Note.** Field(s) in the Reference column on the Update/Export page are required. Often the system requires just one reference, but sometimes the import may require more than one.

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	<input type="radio"/> Update Vehicle Labels	VIN or Vehicle Label or Serial Number	Vehicle Label Update, VIN Update, Color, License Plate, License Country, License State, Odometer, Make, Model, Model Year, Fuel Type, Fuel Capacity, Idle Gph, Engine Size, Hide Location, Run Time, Run Time Timestamp, Vehicle Icon	<a href="#">example #1</a> <a href="#">example #2</a> <a href="#">example #3</a>
	<input type="radio"/> Register New Vehicles	VIN and Vehicle Label and Serial Number	Color, License Plate, License Country, License State, Odometer, Make, Model, Model Year, Fuel Type, Fuel Capacity, Idle Gph, Engine Size, Hide Location, Run Time, Run Time Timestamp, Vehicle Icon	<a href="#">example #1</a>

 **Tip!** Refer to the above general formatting tips while preparing a spreadsheet for import.

1. Save the spreadsheet with your changes.
2. From the portal in the Spreadsheet Actions grid, click the **Update Vehicle Labels** option.
3. From the Import Step 1: Upload CSV or Excel File grid, click **Choose File**.
4. In the Open window, browse to the location where you saved the example file for import, and double-click it.
5. Click **Upload Now**.

### Import Step 1: Upload CSV or Excel File

*Instructions: Create a spreadsheet with all your vehicles in rows.*

Spreadsheet:  veh\_lbl\_1.csv

The Import Step 2: Define Columns grid appears. This grid allows you to see how your spreadsheet column names (shown in the drop-downs) will be applied to the appropriate fields in the portal (shown in bold). Select the Reference item and match it to the Reference column in your spreadsheet. No changes will be made to the data listed in the Reference column; this will only be used as the identifier to update auxiliary information. Set any fields marked “IGNORE” to the appropriate column name if they will be updated. If you don’t want to add/update those columns, leave them set to “IGNORE.” Some spreadsheets don’t have columns named specifically for “Update” purposes like our example (“Vehicle Label Update”). In those cases, search for the Update section within the drop-down of the field you want to update.

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Email

-- IGNORE --

-- IGNORE --

Reference

Username

Update

Password

First Name

Last Name

Full Name

Email Address

1. Click **Preview the Import**.

Import Step 2: Define Columns

This preview shows what columns from your spreadsheet will be imported and allows you to specify explicitly how the col

VIN	Vehicle Label Update	VIN Update	Color
VIN	Vehicle Label Update	-- IGNORE --	Color
1J4GL58K13W674176	TRUCK-1		Red

Preview the Import

Clear Import

The Import Step 3: Preview Import Data grid appears. This grid allows you to verify the data that will be imported. Valid values for reference fields will be marked with a green check box. The next action will overwrite/add data in the portal, so it's very important to verify that columns are being mapped to the correct areas within the portal. If you haven't already exported your current data as a backup, do so now!

1. Click **Proceed with Import**.

Import Step 3 - Preview Import Data

This preview shows what data will be imported.

Reference: VIN	Update: Vehicle Label Update	Update: VIN Update
✓ 1J4GL58K13W674176	TRUCK-1	

Proceed with Import

The Import Step 4: Import All Data grid appears. This grid provides a summary of the import results. If any rows were skipped, they will be listed here with the reason they were not imported.

Import Step 4 - Import All Data

The following actions were taken.

[Results of import message displays here.]

[Specific rows that apply to the result message display here.]

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1. From the menu at the top of the page, click **Vehicles** to view the updated vehicle labels.

## Other Spreadsheet Actions

For other common spreadsheet actions, click the available links for step-by-step instructions (not available for every action):

Action	Reference	Update
Create New Users	Username and Password	First Name, Last Name, Full Name, Email Address, Address, City, State, Zip, Country, Phone Number, Timezone, Vehicle Group Permissions, Hierarchy Permissions, Hierarchy Permission Types, Landmark Group Permissions, Menu Access Template, User to Clone
Update Users	Username	Password, First Name, Last Name, Full Name, Email Address, Address, City, State, Zip, Country, Phone Number, Timezone, Vehicle Group Permissions, Hierarchy Permissions, Hierarchy Permission Types, Landmark Group Permissions, Menu Access Template, User to Clone Dashboard
Update Odometer Waypoints	VIN or Vehicle Label or Serial Number	Odometer and Timestamp
Vehicle Group Membership	VIN or Vehicle Label or Serial Number	Vehicle Group
Update Vehicle Labels	VIN or Vehicle Label or Serial Number	Vehicle Label Update, VIN Update, Color, License Plate, License Country, License State, Odometer, Make, Model, Model Year, Fuel Type, Fuel Capacity, Idle GPH, Engine Size, Hide Location, Run Time, Run Time Timestamp, Vehicle Icon
Register New Vehicles	VIN and Vehicle Label and Serial Number	Color, License Plate, License Country, License State, Odometer, Make, Model, Model Year, Fuel Type, Fuel Capacity, Idle GPH, Engine Size, Hide Location, Run Time, Run Time Timestamp, Vehicle Icon
Create Drivers	Driver Full Name or Last Name or Reference ID	First Name, Timezone, Country, Email Address, Phone Number, Alert Preferences, Driver ID, Driver Group
Update Drivers	Driver Full Name or Last Name or Reference ID	Reference ID Update, First Name, Last Name Update, Timezone, Country, Email Address, Phone Number, Alert Preferences, Driver ID, Driver Group
Delete Drivers	Driver Full Name or Last Name or Reference ID	Reference ID Update, First Name, Last Name Update, Timezone, Country, Email Address, Phone Number, Alert Preferences, Driver ID, Driver Group



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Action	Reference	Update
Assign Drivers	VIN or Vehicle Label or Serial Number	Driver Full Name, Last Name, Reference ID
Hierarchy Update	Tree Node or Node Path	Tree, Parent Node, Driver Full Name, Last Name, Reference ID, Landmark, Username, VIN, Vehicle Label, Serial Number
Attribute Update	Attribute Value	Attribute Name, Driver Full Name, Last Name, Reference ID, Landmark, Username, VIN, Vehicle Label, Serial Number, Hierarchy Node
Assign Inputs	VIN or Vehicle Label or Serial Number	Definition, Input Bit, Output Bit, Voltage
Update Vehicle Settings	VIN or Vehicle Label or Serial Number	Report Interval, Ignition Off, Motion-Based, False Idle, Is Trailer, Trip Setting, No Idle Trips, No Force Idle, Slow Moving, Even Slower, Save All Idle, Use Diagnostic Odometer, Garmin
Create Service Logs	VIN or Vehicle Label or Serial Number	Performed at Miles, Performed at Hours, Service Cost, Service Date, Service Notes
Create Service Reminders	VIN or Vehicle Label or Serial Number Service	Label, Next Service Miles, Next Service Hours, Next Service Date, Interval Miles, Interval Hours, Interval Days