



M5 – AssetWorks GPS

Setup Guide

Version 24.x
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Technical Support

AssetWorks provides several ways to connect with the Customer Support team. Be prepared to provide detailed information to the representative. If you are reporting an issue by email, include screen shots of your problem. This will provide the Customer Support representative with the information needed to respond quickly and effectively.

Customer Support is available Monday through Friday, 7:00 a.m. to 7:00 p.m., Eastern Time.

Telephone: 1-610-225-8300

Email: M5Support@AssetWorks.com

Website: Community.AssetWorks.com

The support website can be used to open issues, subscribe to user groups and download documentation, as well as to access the latest AssetWorks news. For secure access to the website, contact Customer Support by calling the number above.

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M5 – AssetWorks GPS Overview

M5 – AssetWorks GPS is a two-way integration that accomplishes two workflows:

1. **M5 to AssetWorks GPS** – M5 is the system of record for assets and updates the AssetWorks GPS system with fleet equipment (vehicle) data like manufacturer/make, model, year, license plate, and fuel type. New assets and updates to fleet equipment in M5 flow to the corresponding equipment in AssetWorks GPS.
2. **AssetWorks GPS to M5** – AssetWorks GPS exposes vehicle telematics data over the REST API integration and M5 updates the corresponding equipment (vehicles) with telematics data including meter readings, DTCs and location coordinates.

Technical configurations, application configurations, and transaction processing steps are explained in the following sections.

Technical Configurations

Interface and Screen Names

Enable the following interfaces in the Interface and Screen Names frame:

- AssetWorks GPS Telematics
- M5 Units to AssetWorks GPS

Interface and Screen Names

Search Criteria

Display Name: Template: Disabled: ☐

Interface Names (Loaded 1 records)

Interface Name	Display Name	Template	Disabled
M5-AWGPS-TELEMATICS-INTF	AssetWorks GPS Telematics	AWGPSTelematics.xml	<input type="checkbox"/>

Search Criteria

Display Name: Template: Disabled: ☐

Interface Names (Loaded 1 records)

Interface Name	Display Name	Template	Disabled
M5-AWGPS-TELEMATICS-INTF	AssetWorks GPS Telematics	AWGPSTelematics.xml	<input type="checkbox"/>

You can configure the interfaces after they are enabled in the Interface Manager.

Interface Manager

M5 Units to AssetWorks GPS

The M5 Units to AssetWorks GPS exports unit data from M5 to AssetWorks GPS. The interface selects all active units with a Unit Item of AW GPS VEHICLE TYPE. If the unit does not already exist in AssetWorks GPS, it is created. If the unit already exists in AssetWorks GPS, its data is updated based on the changes received from M5.

The interface requires a valid License Plate Type, Division Key, email address for notifications, and Tank Capacity UOM to be defined in the M5 Interface Manager. Credentials will be provided by Professional Services. In the M5 Units to AssetWorks GPS, enter the following parameters:

- LICENSE PLATE TYPE
- DIVISION KEY
- EMAIL TO
- TANK CAPACITY UOM – GAL(US), GAL(IMP), LT

The interface can be scheduled to run at specified intervals based on customer protocol and recommended practices. For this interface, scheduling **Once** an hour is recommended. After the parameters and scheduling have been defined, the interface can be saved.

Interface Manager

Interface:

M5 Units to AssetWorks GPS

Interface Parameters (Record 4 of 4)

Number	Description	Value
1	LICENSE PLATE TYPE	LIC
2	DIVISION KEY	
3	EMAIL TO	
4	TANK CAPACITY UOM – GAL(US), GAL(IMP), LT	GAL(US)

Refresh

Current Execution Schedule (Loaded 1 records)

ID	Description	Status	Schedule Date	Last Run	Frequency	Exclude Holidays	Submitted By	Priority	Run Desc
M5-AWGPS-UNIT-INTF		Complete	02-Feb-2024 08:31:32	02-Feb-2024 08:32:31	Once	N		6	

Schedule Details

Run Interval:

Once

Exclude weekends and holidays:

First execution date/time:

Schedule / Reschedule

AssetWorks GPS Telematics

The AssetWorks GPS Telematics imports telematics data from AssetWorks GPS to M5. The interface requires Division Key, email address for notifications, Meter Override, and Lamp Statuses to be defined in Interface Manager. Credentials will be provided by Professional Services. In the AssetWorks GPS, enter the following interface parameters:

- DIVISION KEY
- EMAIL TO
- EMAIL FROM
- METER OVERRIDE (Y/N)
- INCLUDE LAMP STATUS(ES)

The interface can be scheduled to run at specified intervals based on customer protocol and recommended practices. For this interface, scheduling **Once** an hour is recommended. After the parameters and scheduling have been defined, the interface can be saved.

Interface Manager

Interface:

AssetWorks GPS Telematics

Interface Parameters (Loaded 5 records)

Number	Description	Value
1	DIVISION KEY	
2	EMAIL TO	
3	EMAIL FROM	
4	METER OVERRIDE (Y/N)	
5	INCLUDE LAMP STATUS(ES)	

Refresh

Current Execution Schedule (Loaded 1 records)

ID	Description	Status	Schedule Date	Last Run	Frequency	Exclude Holidays	Submitted By	Priority	Run Desc
M5-AWGPS-TELEMATICS-INTF		Complete	07-Feb-2024 09:15:42	07-Feb-2024 09:15:51	Once	N		4	

Schedule Details

Run Interval:

Once

Exclude weekends and holidays:
☐

First execution date/time:

Schedule / Reschedule

M5 Application Configurations

System Flag 5363

System Flag 5363, Use FSS Translation? Y/N is used for set up if the customer wants the ability to flag Unit Items as FSS management items from the Item Master Definition frame. When this flag is set to Y, a column FSS Item will appear on the Unit items of the Item Master Definition frame. If this column is selected, the item will be mandatory and validated against FSS items.

The only item that is needed for the integration is *AW GPS VEHICLE TYPE*.

Item Master Definition

In Item Master Definition, the Unit type must have *AW GPS VEHICLE TYPE* item selected as a **Mandatory Item** and an **FSS Item**.

The Unit Item must match a valid Asset Type in AW GPS.

Item Master Definition

Item Selection
Type:

Unit Item Information (Record 147 of 726)

Item	Type	Decimal	Mandatory Item	Validated Value	Range	Yard Item	FSS Item	Default Value	Minimum Value	Maximum Value	Disabled	Attachment	Notes	Restrictions
AW GPS DEVICE TYPE	Character		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>			
AW GPS VEHICLE TYPE	Character		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Test			<input type="checkbox"/>			

Unit Items

In Unit Items, each unit must have the *AW GPS Vehicle Type* applied.

Unit Items

Unit Information
Unit: 2006 TEST TEST MODEL Status:
Show All Items ☐

J05555 Item Information (Loaded 80 records)

Item	Role	Decimal	Mandatory Item	Validate Value	Range	Minimum Value	Maximum Value	Attachment	Notes
AW GPS VEHICLE TYPE	Character		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Test Vehicle		

Unit Main

In Unit Main, units (vehicles) must be created or imported with valid data, including a Unit number and Asset Type of Unit.

Unit Main

Unit Information

Unit: Add New 2016 CIVIC HYBRID
Description:
Alternate Unit No.:

+ Asset/Codes Dept/Locations Class Meter/Accounting License/Notes GPS Location

Year / Manufacturer / Make / Model

Year	Manufacturer	Make	Model
2016	HONDA	CIVIC	HYBRID

Unit Codes

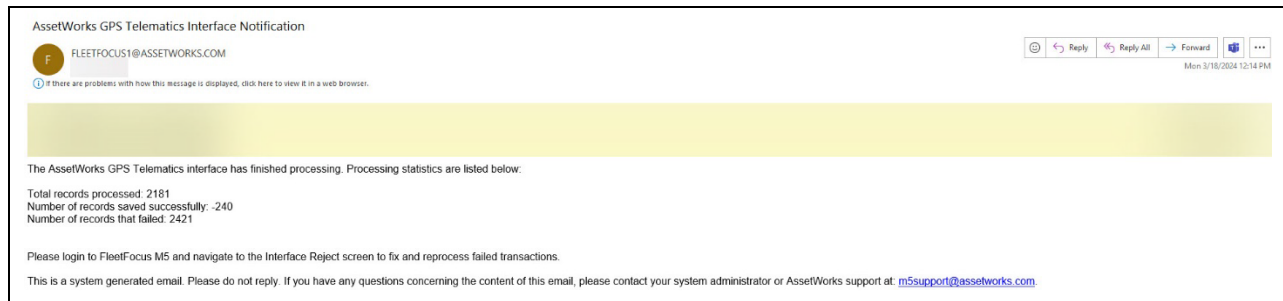
Serial Number:
MCC:
DPH:
Activity:
Tech Spec Number:
DHSPEC:
Asset Category:
CA03:
Asset Class:
2:
Asset Type: Equipment Type: SKU:
Billing: Type: Effective Date:
High Priority: ☒ Passive GPS: ☒ Driver Behavior: ☒ Telematics: ☒
Calibration Date: Calibration Expires:

Transaction Processing

Interface Manager

AssetWorks GPS Telematics

After defining the necessary parameters in AssetWorks GPS Telematics, run or schedule the interface and verify that an email was sent and that records were successfully processed.



Work requests are created for processed records automatically based on customer configurations and are managed according to customer protocol.

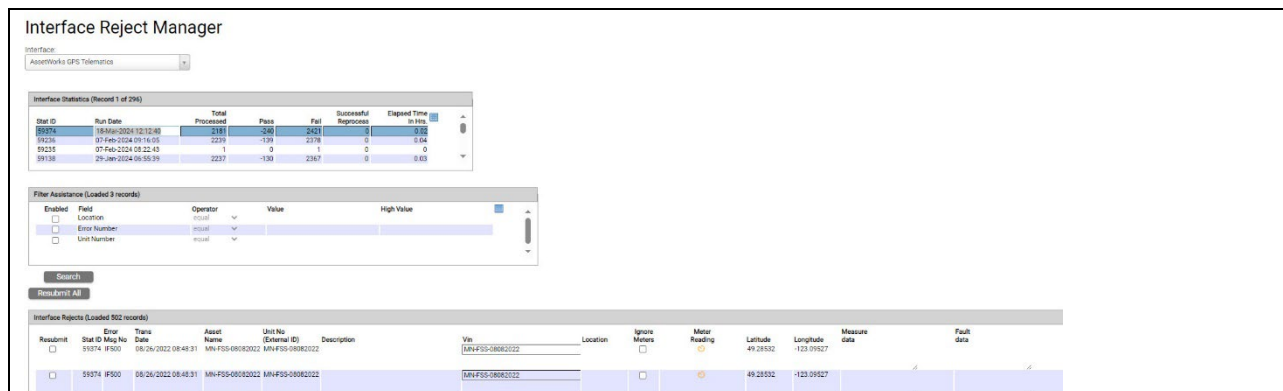
If any records fail to process, proceed to Interface Reject Manager.

Interface Reject Manager

Records may fail to process if vehicle data is set up incorrectly in AssetWorks GPS or M5. When AssetWorks GPS Telematics runs, the notification email summarizes how many records were sent successfully and how many records failed to process correctly.

AssetWorks GPS Telematics

If there are failed records, navigate to Interface Reject Manager, and select *AssetWorks GPS Telematics* and view the failed records.



Determine the data to be corrected by hovering over the **Error Msg No** field and reading the error message that displays. In the above example, a Unit number does not exist on the unit in Unit Main and will need to be added. After the data is corrected, the failed record can be resubmitted and the telematics data will be processed.

Telematic Fault Query

Open the Telematic Fault Query frame and verify that any resubmitted records are correctly displayed for the unit that initially had incorrect data.

SAVE

UNDO

REFRESH

DELETE

FIND

Telematic Fault Query

Selection Criteria

Unit:

2016 CIVIC HYBRID

Subsystem:

Element:

Protocol:

Element Type:

Fault Status :

Active

Fault Read Status :

Read

Unread

Cleared

Uncleared

All Actionable

No Action

☐

☐

☐

☐

☒

☐

Fault Dates

From Date:

10/21/2023 10:39:27

To Date:

11/20/2023 10:39:27

Work Order/Work Request

Work Order:

Work Request:

Clear

Retrieve

Unit Fault List (Loaded 0 records)

Unit No	Protocol	Initial Fault Date	Sub System	Element Link	Read Status	FMI	Description	Fault Status	Insight ID	Priority	Occurrence	Work Order	Job Code	Work Request	Meter Readings	Detail
---------	----------	--------------------	------------	--------------	-------------	-----	-------------	--------------	------------	----------	------------	------------	----------	--------------	----------------	--------

Unit Main - GPS & Location Verification

Telematics data includes GPS and location information. When AssetWorks GPS Telematics runs, this data is captured from AssetWorks GPS and is displayed in Unit Main under the **GPS Location** tab.

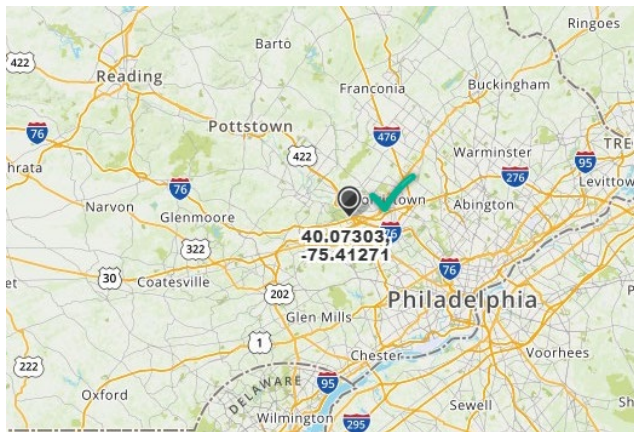
Unit Information
Unit: **Add New** 2016 CIVIC HYBRID
Description:
Alternate Unit No.:

Asset/Codes **Dept/Locations** **Class** **Meter/Accounting** **License/Notes** **GPS Location**

GPS Information
Start Date: 01/11/2020 End Date: 02/10/2020
DHRM214 GPS History (Loaded 4 records)

Last Update	Longitude	Latitude	Map It
02/10/2020 11:25:21	-75.41264	40.07285	Click To View Map
02/10/2020 13:22:10	-75.41266	40.0728	Click To View Map
02/10/2020 13:37:24	-75.41267	40.07315	Click To View Map
02/10/2020 14:47:44	-75.41271	40.07303	Click To View Map

Select *Click To View Map* link to view a map based on longitude and latitude coordinates.



AssetWorks GPS Application Configurations

Assets

Assets are imported to AssetWorks GPS by using M5 Units to AssetWorks GPS. In AssetWorks GPS, assets can be viewed under *Administration > Assets*. If an asset is created in AssetWorks GPS directly, populating the **External ID** field with the Unit Number of the asset will sync the asset with the integration and M5 for automatic updates.

The screenshot displays the 'Assets' configuration page in AssetWorks GPS. It features a top navigation bar with tabs: Details (active), Operator Safety, Maintenance, and Interfaces. The main content area is divided into three panels. The left panel, titled 'Asset Names', contains input fields for 'Name' (01-3182) and 'Registered Name' (013182). Below this is the 'Associations' section with dropdown menus for 'Division' (Peoples Gas), 'Type' (PG Vehicle), and 'Landmark', along with text fields for 'Department' and 'External Id'. The right panel is titled 'Device Management' and includes a '+ Add Device' button. It contains a table with columns: Device Image, Device Name (3672047623), Device Type (ME3640), and Supports (Vehicle Diagnostics, GPS Locations). Below the table is a 'Showing 1/1' indicator. Further down is the 'Meter Sources' section with an 'Update Reported' button. It includes input fields for 'Reported (ECM, CECU)' (66455.63) and 'Accumulated (GPS, ECM, CECU)' (4855.39), a date field (08/26/22 09:39:36 AM), and radio buttons for 'Reported' and 'Accumulated' selection. At the bottom, there is an 'Engine Hours' section with 'Reported (ECM)' and 'Accumulated (Ignition, ECM)' fields.



Note: A physical telematics device is recommended to maintain telematics data and process the data from AssetWorks GPS to M5 using AssetWorks GPS Telematics.

Asset Types

M5 Asset Classes are required to match the AssetWorks GPS Asset Types. In AssetWorks GPS, under *Administration > Asset Types*, Asset Types must be created to match the M5 Asset Class.

Division

AssetWorks GPS division structure needs to match the using department on the asset in M5. In AssetWorks GPS, under *Administration > Division*, a division must be created to match the M5 departments.

FuelFocus

If using FuelFocus, please see the Installation of M5 Web Services section of the *M5 Installation Procedure Install Guide* regarding updating web config for AssetWorks GPS customers.

Updates

Release	Section	Description
23.2	All sections	Applied miscellaneous writing style updates throughout the document.
24.1	All sections	Renamed FSS Interface to AssetWorks GPS throughout the document.
24.3	AssetWorks GPS Application Configurations	Added FuelFocus .