

Quick Start Tutorial for Oracle IoT Fleet Monitoring Cloud Service

Before You Begin ✓

Purpose ✓

This quick start tutorial shows you how to configure Oracle Internet of Things (IoT) Fleet Monitoring Cloud Service for your company. It also shows you how to examine your fleet's real-time performance data to improve your fleet's utilization and reduce operations cost.

Time to Complete ✓

Approximately 30 minutes

Background ✓

The Oracle IoT Fleet Monitoring Cloud Service application uses sensor data from Oracle IoT Cloud Service to enable a fleet manager of a company to:

- Retrieve the real-time status of vehicles and drivers
- Perform preventive maintenance of the fleet
- Configure Geofencing ^{for g} around its facilities and ^{for g} those of its customers
- Generate reports based on ^{the} desired granularity and contextual information ^{needed}

Scenario ✓

ChocoTime Inc., ³ a member of Word Cocoa Foundation, is one of the largest manufacturers of high-quality chocolate balls in North America. The company has a wide distribution network to ^{very close} reach out to its vast customer segment. This includes 3 ^{the} mega distribution centers and multiple warehouses located strategically across ^{the} US and Canada. In each of these locations, the company owns and operates a network of vending machines for direct ^{sales} retail to consumers.

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The company currently operates around 300 ^{trucks} trailers. To optimize the distribution network and to support its operations ChocoTime Inc. leverages Oracle Supply Chain -Transportation Management for:

- Packaging and consolidation
- Load configuration and route planning
- Delivery and pickup optimization
- Carrier, equipment and location capacity
- Driver and supplier payment

No product with this name.

*Oracle Transportation Management or
Oracle Transportation Management Cloud Service*

The head of operations for ChocoTime Inc. identified several challenges that led to late shipments and supply chain problems due to lack of:

- real-time visibility
- predictive maintenance
- geofencing
- driver profiling

He chose Oracle IoT Fleet Monitoring Cloud Service to address the issues in his fleet. ChocoTime Inc. completed an upgrade to its entire fleet of over 300 ^{trucks} trailers by connecting them with On-Board Diagnostics-II (OBD) dongles and setting up IoT FM platform that seamlessly connects pickup, delivery, and driver hours with back-office functions. A mobile application provides drivers with step-by-step instructions on assignments.

With Oracle Internet of Things Fleet Monitoring Application, ChocoTime Inc. has identified significant improvements over the last few months.

What Do You Need? ✓

- Access to an Oracle IoT Fleet Monitoring Cloud Service instance. (The URL, user name, and password are in the email that you received when you purchased your subscription to Oracle IoT Fleet Monitoring Cloud Service.)
- A desktop, laptop, or mobile device with ^{an} internet connection.
- Familiarity with transportation and logistics processes.

Configuring the Application ^{Monetary and Vehicle Information}

In this section, you learn how to configure monetary and vehicle units, and also how to upload comma-separated value (CSV) vehicles and trip templates ^{data} to Oracle IoT Fleet Monitoring Cloud Service.

1. In a web browser, enter the URL of your Oracle IoT Fleet Monitoring Cloud Service instance and log in with your credentials. The home page ^{data for upload} appears.

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Description of this image (files/t1_s1_homePage.txt)

2. Click the **Menu** icon, and then, ~~in the vertical menu bar~~, click **Configuration**.

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3. On the **Configurations:Settings** page, enter or select values for the following fields based on your organization's standards:

- **Currency:** \$
- **Fuel Costs:** 1
- **Distance:** mile
- **Speed:** m/h
- **Temperature:** Fahrenheit

No code font; bold - because they are selected, not entered into the field

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4. To add data about the **Vehicle** and the **Trip Template**, on the **Configuration** page, click the **Upload** icon. On the **Configuration: CSV Data** page, complete the following actions:

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Description of this image (files/t1_s4_config2.txt)

- a. Obtain the CSV files: Right-click the following file names, select **Save link as** and save them in your computer:
vehicle-import.csv (files/vehicle-import.csv), tripTemplate-import.csv (files/tripTemplate-import.csv)

Note: To obtain the format of the CSV data, on the **Configuration: CSV Data** page, click **Download a sample CSV file**, and save the file.

- b. Upload the CSV files: Click **Upload New** for **Vehicle**, browse to the location of the vehicle-import.csv file and select it. Repeat the actions for the CSV file for **Trip Template**.

See the rewrite

Creating Rules and Geofences

You create rules to track incidents and vehicle anomalies. The sensors connected to the vehicles generate

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incidents and alerts if the conditions set in the rules are met. You create ^{the locations} Geofences to identify geographical zones that cover your facilities and ~~that~~ of your customers.

1. Click **Menu** and then, ^{in the vertical menu bar} click **Rules**.

2. Click **Create New Rule**.

3. On the **Create New Rule** page, ^{complete the following}.

^{the} Enter or select values for the **Details**, **Type**, and **Apply To** sections:

- **Name:** OverheatedEngine
- **Type:** Vehicle
- **Apply To:** All Vehicles

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4. ^{On the Create New Rule page,} Enter or select values for the **Condition** and **Create Incident** sections:

- **Execute If:** All Conditions Apply
- **Type:** engineCoolantTemperature Greater Than 297
- **Summary:** Overheated Engine - needs attention
- **Type:** Maintenance
- **Priority:** High
- **Tags:** Overheat
- **Description:** Overheated Engine - needs attention

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no code font; bold

*If entered information, OK.
If selected, no code font.
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5. Click **Save**.

6. 4. Click **Menu** and then, ^{in the vertical menu bar} click **Geofences**.

7. 5. Click **Create New Geofence**, and ^{complete the following}.

^{the} Enter the following values:

- **Name:** CA Zone

- **Tags:** ~~CA~~ boundary *entered information?*
If yes, then leave the code font; otherwise, bold.

8. Use the **zoom-in** and **zoom-out** buttons to focus on your desired area. *these*
9. Click the **Pencil** icon. To start creating the geo boundary, click a point on the map. *graphical*

10. Drag and drop your mouse to define the geo boundary, and finally click on the starting point to define a polygon *graphical* *create* *an area*.
11. Click **Save**.
10. To define the geographical boundary, drag your mouse, and click the starting point to create an area.

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Exploring the Fleet View

To monitor the fleet and trip metrics, and to see the performance metrics of a specific vehicle, trip, or driver, use the Fleet view.

Using the **Fleet** view, you see how to monitor the Fleet metrics, Trip metrics and also see how to delve deep into the performance metric of a specific vehicle, trip, or driver.

Monitoring Fleet Metrics

1. Click **Menu** and then, in the vertical menu bar, click **Fleet**. Notice that the ribbon displays the **Fleet Metrics** and **Trip Metrics** of your organization. *tabs that* *no bold*

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2. To monitor **Fleet Metrics**, click **Zoom-in** to expand into your geofence area. On the ribbon, click **Vehicles**. Notice that the vehicles are illustrated on the map. Click the Vehicle icon on the area. Notice that the vehicles get further distributed into several locations. *the* *no bold* *button* *get a closer view of* *bottom of the page* *then*

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3. Click a vehicle and notice the details of the vehicle pop up with an eye icon. To the right of the details is the  icon. *any* *about* *Don't use "eye". Use the action that the icon performs.*

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4. To monitor the metrics of the vehicle, click the eye icon. Observe the various metrics of the vehicle. *Look at* *vehicles metrics*

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5. To ^{see} ~~examine~~ the incidents triggered for the vehicle, click the **incidents** icon.

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6. Click the **eye** icon to respond to the incident. In the **Comments** section, enter your ^{message} ~~response~~ and click **Post**.

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Note: You can use the **Search** option on the **Fleet View** ^{page} screen to monitor and ^{get more information} ~~probe~~ about a specific vehicle or driver.

Monitoring Trip Metrics

1. To monitor **Trip Metrics**, go to the **Ribbon**, and notice the metrics ^{bottom of the page} under **Trip Metrics**. To find out about the current trips on real time, click **Active Trips**. The current trips ^{are shown} ~~gets~~ marked on the map collectively. To view the distribution of trips, click on the collective mark, and then click on ^{the} ~~one~~ trip. The details about the trip pop up.

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2. Click the **eye** icon to ^{get more information about} ~~probe into the details of~~ the current trip.

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3. Click the **Current Trip Map** ^{real-time} ~~tab~~ to monitor the ~~live~~ status of the trip.

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Note: You monitor the other trip metrics ^{way} ~~on the ribbon~~ in a similar manner.

Monitoring Trips, Incidents, and Alerts

1. Click **Menu** and then, ^{is displayed} ~~in the vertical menu bar~~ click **Trips**. The list of trips ^{is} ~~appears~~. Notice that there ^{is} ~~is a~~

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no bold for you to filter the
search option to obtain trips based on *several* parameters.
different

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- get more information about*
 2. To *probe* a specific trip, click the **eye** icon. A page with all the details about that trip *is displayed* appears. To go back to the **Trips** page, click **Back**.

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3. Click the **Trip Templates** icon. Notice that the *bold* **Search** icon *lets you* allows you to search the Trip templates based on *several* parameters.
different?

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- get more information about*
 4. To *probe* a specific trip template, click the **eye** icon. A page with all the details about that trip template *is displayed* appears. To go back to the **Trip Templates** page, click **Back**.

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5. Click **Menu**, and then, *in the vertical menu bar*, click **Incidents**. The list of incidents *is displayed* appears. Notice that there is a **search** option to obtain trips based on *several* parameters. The number of incidents that *have* been **Withdrawn** is visible. *see the* *different?* *were*
no bold

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- get more information about a specific vehicle's incidents*
 6. To *probe* a specific vehicle that is the source of an incident, click the **Vehicle** icon. You *see* a page with all the details about that vehicle. To go back to the **Incidents** page, click **Back**.
is displayed

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- get more information about*
 7. To *probe* a specific incident, click the **eye** icon. A page with all the details about that incident *is displayed* appears. To add your comments to that incident, enter your message in the **Comments** section and click **Post**. To go back to the **Incidents** page, click **Back**.
then

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8. Click **Menu**, and then, in the vertical menu bar, click **Alerts**. You see a page with a list of all alerts. To search for a specific alert, use the **Search** icon, select the search criteria, and value. To move out of the **Alerts** page, click **Menu** and select another menu option.

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Generating Reports

1. Click **Menu**, and then, in the vertical menu bar, click **Reports**. You see the **Reports** page. An aggregate **Trip** report for the **last 7 days** is visible.

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2. To view the **Trip** report in details, click **View Report**. To go back to the **Reports** page, click **Back**.

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3. To generate a custom **Trip** report, select **Report Type** as **Trip**, and **Time Period** as **Custom**. To filter the report further, select your search criteria from the **Search** drop-down. Click **View Report**.

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4. To generate more reports, select the **Report Type** as **Vehicle** or **Driver**. Select a **Time Period**. Filter your report by selecting a search criteria. Click **View Report**.

Want to Learn More?

- Using Oracle Internet of Things Fleet Monitoring Application (<http://www.oracle.com/pls/topic/lookup?ctx=cloud&id=IOTFM-GUID-9D886CD1-FF3D-4F4F-AA09-D700868AC680>)

- Using Oracle Internet of Things Cloud Service (<http://www.oracle.com/pls/topic/lookup?ctx=cloud&id=IOTFM-GUID-9D886CD1-FF3D-4F4F-AA09-D700868AC680>)

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Suggested Replacement for Step 4 in the Configuring Monetary and Vehicle Information Section

Adding Data About a Vehicle to the CSV File

1. On the **Configuration** page, click **Upload**.
2. On the **Configuration: CSV Data page**, right-click the `vehicle-import.csv` file.
3. Select **Save link as**, and save the file to your computer.

Note: To see the formatting of the CSV data, click Download a Sample CSV file, and save the file to your computer.

Uploading the CSV File

After you add the data about a vehicle to the CSV file:

1. On the **Configuration** page, click **Upload**.
2. For the vehicle, click **Upload New**.
3. Find the `vehicle-import.csv` file, and select it.

Adding Data to a Vehicle Trip Template File

1. On the **Configuration** page, click **Upload**.
2. On the **Configuration: CSV Data page**, right-click the `tripTemplate-import.csv` file.
3. Select **Save link as**, and save the file to your computer.

Uploading the Trip Template File

After you add the data to the trip template file:

1. On the **Configuration** page, click **Upload**.
2. For the trip template, click **Upload New**.
3. Find the `tripTemplate-import.csv` file, and select it.

