

iCloud3 Components

There are 3 major parts to the iCloud3 custom component that are used to configure, track and report device location information. They are:

- iCloud3 Custom Component
- Event Log
- The Configurator

This section describes each of the items.





































iCloud3 Custom Component

The iCloud3 Custom Component provides the core device tracking service. It does the following:

- Initializes and sets up all tracking activities using the device configuration data from the iCloud account.
- Monitors the iOS App configuration.
- Requests and processes location data from iCloud Location Services and the iOS App.
- Analyzes the location data and tracks the devices.
- Updates the sensors associated with each device.
- The iCloud3 files are installed in the `config/custom_components/icloud3` directory.

The screens below show examples of a tracked device's current status. The following is displayed:

- Notice the distance, travel time and travel direction based on the Home Zone.
- Notice when the device was last located, when it was last updated and the time of the next update.
- Gary is tracking from Home and the Warehouse Zone, Lillian just from Home.
- The *Info* field shows tracking results from nearby devices is being used.

<div><div><div><div><div></div><div>Gary</div></div><div><div>Home</div><div></div></div></div><div><div>Distance</div><div></div><div>0 mi</div></div><div><div>TravTime</div><div></div><div>0 min</div></div><div><div>Interval</div><div></div><div>30 min</div></div><div><div>NextUpdt</div><div></div><div>11:58:00</div></div></div></div>	<div><div><div><div><div></div><div>Lillian</div></div><div><div>Home</div><div></div></div></div><div><div>Distance</div><div></div><div>0 mi</div></div><div><div>TravMin</div><div></div><div>0 min</div></div><div><div>Interval</div><div></div><div>30 min</div></div><div><div>NextUpdt</div><div></div><div>11:58:15</div></div></div></div>
<div><div><div><div><div></div><div>Battery</div></div><div><div>87%</div><div></div></div></div><div><div>Direction</div><div></div><div>In Zone</div></div><div><div>Moved</div><div></div><div>0 mi</div></div><div><div>Located</div><div></div><div>11:28:01</div></div><div><div>LastUpdt</div><div></div><div>11:28:13</div></div></div></div>	<div><div><div><div><div></div><div>Battery</div></div><div><div>24%</div><div></div></div></div><div><div>Direction</div><div></div><div>In Zone</div></div><div><div>Moved</div><div></div><div>0 mi</div></div><div><div>Located</div><div></div><div>11:27:59</div></div><div><div>LastUpdt</div><div></div><div>11:28:16</div></div></div></div>
<div><div><div><div><div></div><div>Home</div></div><div><div>@Home</div><div></div></div></div><div><div>Direction</div><div></div><div>In Zone</div></div><div><div>Distance</div><div></div><div>0 mi</div></div><div><div>TravTime</div><div></div><div>0 min</div></div></div></div>	<div><div><div><div><div></div><div>Info - Lillian</div></div><div><div>• IntoZone@11:28:16a (44 sec ago)</div></div></div></div></div>
<div><div><div><div><div></div><div>Warehouse</div></div><div><div>@Home</div><div></div></div></div><div><div>Direction</div><div></div><div>In Zone</div></div><div><div>Distance</div><div></div><div>12.3 mi</div></div><div><div>TravTime</div><div></div><div>25 min</div></div></div></div>	<div><div><div><div><div></div><div>Info - Gary</div></div><div><div>• IntoZone@11:28:11a (10.8 min ago)</div></div></div></div></div>

Event Log

The Event Log is a Lovelace custom card that shows past and current activity related to tracking a device. This includes:

- Startup configuration.
- Device information for Family Sharing, Find-my-Friends and iOS App devices and entities.
- Tracking results - zone time and distance data.
- Error messages, problems, location data issues.
- Detail tracking monitors that show what is going on behind the scenes analyzing and processing location data from the iCloud Location Services and the iOS App.
- An *Actions* command menu that will:
 - Restart iCloud3 without restarting Home Assistant
 - Pause and resume tracking
 - Relocate all devices
 - Issue a *Find My Device* alert
 - Export the Event Log to a text file
 - Show/hide tracking monitors
 - Start/stop detailed debugging that will dump set up information and all raw data received from iCloud Location Services.
- The Event Log is installed into the `config/www/icloud3` directory. This directory can be changed on the *Configurator* > *Event Log Configuration* screen.
- It must be added as a resource on the `☰ > HA Settings > Dashboard > Lovelace Resources` screen before it can be used. The steps to do this are described in the *Installing iCloud3 > Step #3 - Set up the Lovelace Resource*.

Update Configuration Main Menu screens - These is used to select the specific update screen.

iCloud3 Update Configuration Main Menu

- ☒ ICLOUD ACCOUNT LOGIN CREDENTIALS > Location Data Source, iCloud Account Username/Password
- ☐ ICLOUD3 DEVICES > Add, Change and Delete trac
- ☐ SENSORS > Sensors created by iCloud3
- ☐ DISPLAY TEXT AS > Event Log Custom Card Text
- ☐ ACTION COMMANDS > • Restart/Pause/Resume Reset and Reauthenticate Account. • Export Eve

☒ SELECT > Select the parameter update form

☐ NEXT PAGE 2 > • Event Log Configuration. • Waz
• Special Zones. • Other Parameters

☐ EXIT AND RESTART ICLOUD3

iCloud3 Update Configuration Main Menu

- ☒ EVENT LOG CONFIGURATION > Zones Name display format, Unit of Measure, Time display format, Event Log Custom Card Directory
- ☐ WAZE ROUTE DISTANCE & TIME, WAZE HISTORY DATABASE > Route Server Location, Min/Max Intervals, Waze History Database Parameters and Controls
- ☐ INZONE INTERVALS > Default inZone intervals for different device types, inZone Interval if the iOS App is not installed, Other inZone Controls
- ☐ SPECIAL ZONES - Pass Through Zone, Stationary Zone
- ☐ OTHER PARAMETERS > Debug Log Levels, Accuracy Thresholds, Maximum Interval, Device Offline Interval, Travel Time Interval Multiplier

☒ SELECT > Select the parameter update form

☐ NEXT PAGE 1 > • Location Data Source & iCloud Account. • iCloud3 Devices. • Sensors. • Display Text As. • Action Commands

☐ EXIT AND RESTART ICLOUD3

[NEXT](#)

Update Tracked Device screens - Adding a new device and updating an existing device is done on this screen.

Update Tracked iCloud3 Device

ICLOUD3 DEVICE NAME*
gary_iphone

iCloud3 device_tracker entity id

FRIENDLY NAME*
Gary

Friendly Name of the device - Used in the device_tracker and s

DEVICE TYPE
iPhone

Type of device - iPhone, iPad, Watch, etc.

TRACKING MODE
Track - Request Location and track the device

Normal location tracking, Monitor the location, or Inactive (not

FAMILY SHARING LIST DEVICE
Gary-iPhone > iPhone 14 Pro (iPhone15,2)

Device in the iCloud Acct Family Sharing List that will be track

FIND-MY-FRIENDS DEVICE
g @ .com

Device in the FindMy Devices list that will be tracked

IOS APP DEVICE
device_tracker.gary_iphone_4 > Gary-iPhone (iPhone15,2)

iOS App mobile_app device entity that will be monitored

PICTURE
gary.jpg → www/icloud3/gary.jpg

Display a picture of the person associated with the device (jpg/png file in the /www directory)

INZONE INTERVAL *

hh* mm* ss*
0 : 30 : 00

ILocation request/Polling interval used when the device is in a zone (initialized using the device type and if the iOS App is installed on the device)

TRACK-FROM-ZONES
Warehouse, Home

☒ SAVE > Update Configuration File • Return to the menu screen

☐ CANCEL > Discard changes • Return to the Main Menu

[SUBMIT](#)

Event Log Configuration screen - Configuring the Event Log field display is done on this screen.

Event Log Configuration

ZONE NAME FORMAT

Zone Name from the HA Zones Configuration Screen

Format used to display the Zone name in the Event Log and sensors

UNIT OF MEASUREMENT

Imperial (mi, ft)

Display distance values in this unit of measurement on the Event Log and sensors

TIME FORMAT

12-hour Time Format (9:05:30a, 4:40:15p)

Format used to display the time in the Event Log and sensors

ICLOUD3 EVENT LOG CARD LOVELACE RESOURCES DIRECTORY

www/icloud3

Directory containing the Event Log custom card - www/[EvLogCustomCardDirectory]

☒ SAVE > Update Configuration File • Return to the menu screen

☐ CANCEL > Discard changes • Return to the Main Menu

SUBMIT