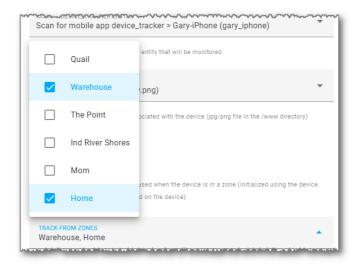
# **Other Features**

### Tracking from more than one Zone

Normally, you track a device from the Home Zone. The sensor entities for travel time, distance, intervals, next update time, etc. are calculated for the Home Zone. iCloud3 also lets you track a device from another zone. It will calculate the same type of sensor entities for that zone.

To track from another zone, select that zone in the *Track from Zones* parameter on the *Update Tracked iCloud3 Device* screen.

- 1. Select the iCloud3 Devices screen.
- 2. Select the device to be tracked from the other zone.
- 3. Select the *Track-from-Zones* field, then select the zones to be tracked from.



New sensors are created for all of the track-from-zones.

- Sensor Entities The zone name is added to the end of the entity name.
  - Home Zone -sensor.gary\_iphone\_travel\_time\_home, sensor.gary\_iphone\_zone\_distance\_home, etc.
  - Warehouse Zone sensor.gary\_iphone\_travel\_time\_warehouse, sensor.gary\_iphone\_zone\_distance\_warehouse, etc.
- Sensor's Friendly Name The zone's display-as friendly is added to the end of the sensor friendly name:
  - Home Zone Gary TravelTime (Home), Gary ZoneDistance (Home), etc.
  - Warehouse Zone Gary TravelTime (Warehouse), Gary ZoneDistance (Warehouse), etc.

The Track-from-Zone sensors mentioned above are optional, only the sensors that will be displayed on a Lovelace card or used in an automation need to be created. They are selected on *iCloud3 Configurator* > *Sensors* screen.



The sensors created when only tracking from the Home zone (*sensor.gary\_iphone\_travel\_time, sensor.gary\_iphone\_zone\_distance, etc.*) have changed:

- Closer to the Home zone Show the Home zone information
- Within 8km of the Other zone and going towards it Show the Other zone's information
- Within 8km of the Other zone and going away from it Show the Home zone's information
- Going towards both zones Show the Home zone's information if more than 8km away from the Other zone
- Other zone's information is displayed It's first initial is displayed in the *distance* sensor (**®** is shown for the Warehouse zone).

#### **Export Event Log**

The Event Log is exported to the file /config/icloud3-event-log[date][time].txt file using the following methods:

- Select Export Event Log from the Event Log > Actions drop down menu.
- Select Export Event Log from the Configurator > Actions menu.

The sections on the report are:

- Device configuration parameters
- General configuration parameters
- Start up results
- Device location and tracking results

```
icloud3 Event Log

Log Update Time: Sat, 11/05, 01:43:11

Tracked Devices:

• Gary/gary jnhone >

{ 'ic3_devicename': 'gary_iphone', 'fname': 'Gary', 'tracking_mode': 'track', 'famshr_devicename':

'Gary-iphone', 'famshr_devicename2': 'None', 'fmf_email': 'gcobb321@gmail.com', 'iosapp_device': 'Search:

gary_iphone', 'iosapp_device2': 'None', 'track_from_zones': ['warehouse', 'home'], 'picture':

'www/icloud3/gary.png', 'device_type': 'iphone', 'inzone_interval': '00:30:00', 'evlog_display_order': 0,

'unique_id': '', 'raw_model': 'iPhone15,2', 'model': 'IPhone', 'model_display_name': 'iPhone 14 Pro'}

{ ic3_devicename': 'lillian_iphone', 'fname': 'Lillian', 'tracking_mode': 'track', 'famshr_devicename':

'lillian.iphone', 'famshr_devicename2': 'None', 'fmf_email': 'lilliancobb321@gmail.com', 'iosapp_device':

'lillian.iphone app', 'iosapp_device2': 'None', 'track_from_zones': ['home'], 'picture':

'www/icloud3/lillian.png', 'device_type': 'iphone', 'inzone_interval': '00:30:00', 'evlog_display_order':

0, 'unique_id': '', 'raw_model': 'iPhone15,2', 'model': 'iPhone', 'model_display_name': 'iPhone 14 Pro'}

General Configuration:

{'unit_of_measurement': 'mi', 'time_format': '12-hour', 'display_zone_format': 'fname', 'max_interval': '04:00:00', 'offline_interval': '00:30:00', 'iosapp_alive_interval': '01:00:00', 'gps_accracy_threshold': 125.0, 'old_location_threshold': '00:30:00', 'travel_time_factor': 0.6, 'center_in_zone': False, 'discard_poor_gps_inzone': True, 'tfz_from_zone_display_dist': 8.0, 'tfz_home_zone_limit_dist': 100.0, 'passthru_zone_time': '00:015:00', 'inzone_intervals': '(iphone': '02:00:00'), 'ipad': '02:00:00', 'watch': '00:15:00', 'waze_min_distance': 1.0, 'waze_max_distance': 200, 'waze_nealimit_' False, 'waze_history_database_used': True, 'waze_history_max_distance': 200, 'waze_history_track_direction': 'north_south', 'stat_zone_fname': '[name]StatZone', 'stat_zone_base_lanjitude': 2.0, 'stat_zone_base_lonjitude': 0.0, 'display_text_as': '['00:03:00', 'stat_zone_base_lanjitude': 2.0, 'stat
```

```
iCloud3 Action Handler > Restart iCloud3
7:25:05p
7:25:10p
                           Initializing iCloud3 v3.0.0b1 > Thursday, Nov 03
7:25:10p
                           iCloud3 Directory > /config/custom_components/icloud3
7:25:10p
                          icloud3 Configuration File > /config/.storage/icloud3/configuration icloud3 Event Log > Current Version Installed (v3.0.3), /config/www/icloud3/icloud3-event-log-card.js
7:25:10p
7:25:10p
                           Local Time Zone Offset > UTC-04:00 hrs, EDT
                           Stage 1 > Initial Preparations
7:25:10p
                          Stationary Zone Base Information > BaseLocation-(27.74482, -80.39057), Radius-200m, DistFromHome-2.0km, M inDistFromZone-200m, DistMoveLimit-150m
7:25:10p
7:25:10p
                          Set Up Waze > Region-US, MinDist-1km, MaxDist-1000km, Realtime-False, HistoryDatabaseUsed-True Waze History Database > Deleted Duplicate Recds, Count-1
Waze History Database > Compressed, Record Count-301
Stage 2 > Prepare Support Services
7:25:10p
7:25:10p
7:25:10p
7:25:10p

    stage 2 / Frepher Sapyliphone (Tracked), NBSP6° FamShr Device-Gary-iPhone, NBSP6° FmF Device-gary@email.com , NBSP6° iOSApp Entity-Search: gary_iphone, NBSP6° Track from Zones-warehouse, home
    lillian_iphone > Lillian/iPhone (Tracked), NBSP6° FamShr Device-Lillian-iPhone, NBSP6° FmF Device-lillian@email.com, NBSP6° iOSApp Entity-lillian_iphone_app

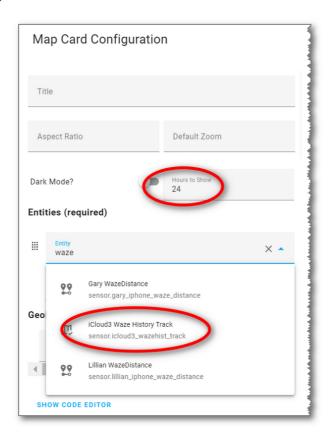
7:25:10p
7:25:10p
                          Stage 3 > Prepare Configured Devices
iCloud Location Services Interface > Restarting Now
iCloud Account Authenticated (#1) > LastAuth-7:11:53p (13.3 min ago), Method-Account/PasswordSignin, Too
7:25:10p
7:25:13p
                                   k-2 sec
                          iCloud Web Services interface (pyicloud_ic3.py) > Verified
Family Sharing List devices > , •Gary-AirPods → Not tracked, AirPods Pro (AirPods8212), •Gary-iPad → Not
tracked, iPad Pro (iPad8,9), ✓Gary-iPhone → gary_iphone, iPhone 14 Pro (iPhone15,2), •Lillian-AppleW
7:25:14n
7:25:14p
```

```
iOSApp Monitor > Trigger-periodic@1:03:30p (10 sec ago), State-home@1:03:25p (10 sec ago), LastTrigger-Bk gnd Fetch@1:03:25p, iOSAppData-1:03:25p, WillUpdate-False-Before Last Update, Located-1:03:25p (iOSA Old Loc iOSApp-1:03:25p/±35m (FamShr-1:00:50p), UpdateIn-5 secs Old Loc iOSApp-1:03:25p/±35m (FamShr-1:00:50p), UpdateIn-5 secs
1:03:35p
1:23:59p
1:23:59p
1:23:59p
                       Old Loc iOSApp-1:03:25p/±35m (FamShr-1:00:50p)
1:24:15p
                       Updated FamShr-1:24:04p/±6m (iOSApp-1:03:25p)
                       iCloud update started > Old Location-1:03:25p
1:24:15p
1:24:15p
                       Zone > Home-2m/r100m, GPS-(27.72685, -80.39055/±6m)
1:24:15p
                      Nearby Devices (<15m) > Lillian/iPhone-2m/±5m
Waze Route Info > From Previous Waze Location Info
»Wareho
                       Results: From-Warehouse > NextUpdate-1:54:15p, Interval-30 min, TravTime-24 min, DeviceFmZone.zone dist=1
                              9.73, Distance-12.3 mi, Method-3.InHomeZone
                       iOSAppState-Home, iCloud3Zone-Home, Interval-30 min, TravelTime-24 min, Distance-12.3 mi
Results: From-Home > NextUpdate-1:54:15p, Interval-30 min, Method-3.InHomeZone
 »Wareho
1:24:15p
                      iOSAppState-Home, iCloud3Zone-Home, Interval-30 min, TravelTime-, Distance-iCloud update completed > Date source - FamShr
 »Home
1:24:15p
                      Device Monitor > famshr, Old Location-1:03:25p, AttrsZone-home, LocDataZone-home, Located-1:24:04p (12 se c ago), iOSAppGPS-(27.72686, -80.39054/±35m), iOSAppState-home), GPS-(27.72685, -80.39055/±6m)
1:24:15p
                      Old Loc FamShr-1:24:04p/±6m (iOSApp-1:03:25p), UpdateIn-5 secs Old Loc FamShr-1:24:04p/±6m (iOSApp-1:03:25p), UpdateIn-5 secs
1:28:40p
1:28:40p
1:28:40p
                       Old Loc FamShr-1:24:04p/±6m (iOSApp-1:03:25p)
1:29:00p
                       Updated FamShr-1:28:59p/±9m (iOSApp-1:03:25p)
1:29:00p
                      iCloud update started > Old Location-1:24:29p
Zone > Home-3m/r100m, GPS-(27.72688, -80.39056/±9m)
1:29:00p
1:29:00p
                      Nearby Devices (<15m) > Lillian/iPhone-2m/±5m
Waze Route Info > From Previous Waze Location Info
 »Wareho
»Wareho
                       Results: From-Warehouse > NextUpdate-1:59:00p, Interval-30 min, TravTime-24 min, DeviceFmZone.zone dist=1
                              9.73, Distance-12.3 mi
                       iOSAppState-Home, iCloud3Zone-Home, Interval-30 min, TravelTime-24 min, Distance-12.3 mi
Results: From-Home > NextUpdate-1:59:00p, Interval-30 min
 »Wareho
1:29:00p
                      iOSAppState-Home, iCloud3Zone-Home, Interval-30 min, TravelTime-, Distance iCloud update completed > Date source - FamShr
»Home
1:29:00p
                      Device Monitor > famshr, Old Location-1:24:29p, AttrsZone-home, LocDataZone-home, Located-1:28:59p (1 sec ago), iOSAppGPS-(27.72686, -80.39054/±35m), iOSAppState-home), GPS-(27.72688, -80.39056/±9m)
1:29:00p
1:30:00p
                       Nearby Devices (<15m) > Lillian/iPhone-2m/±5m
```

## Display the Waze History on a Map Card

Use the *sensor.icloud3\_wazehist\_track* sensor entity as the source of a Lovelace map card to see the locations of all of the 11m locations points that have been saved.

Create a Lovelace map card:



Or copy the yaml code below into the *Show Code Editor* yaml code field on a new Lovelace card.

```
type: map
entities:
  - entity: sensor.icloud3_wazehist_track
hours_to_show: 24
```

After the location data has been loaded into the sensor, the resulting map card looks similar to the map below.



This really does not have any practical use but it was a fun project to see how many locations had been saved.

Each of the dots on the map is a saved location. Unfortunately, Home Assistant treats the locations on the map card as a tracking point and draws a line between the points in the order they were loaded. Ignore the lines.

To try to display the points in a logical order based on your most frequent driving direction, select *North-South* or *East-West* in the *Waze Location Map Display* field on the *Waze - History Database* parameter screen.

#### **Loading the saved locations**

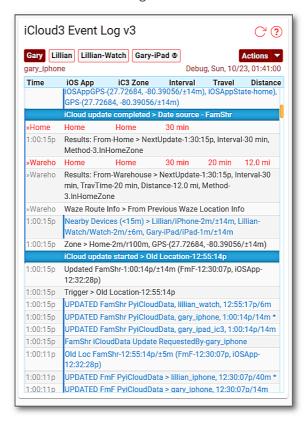
The saved locations are loaded into the *sensor.icloud3\_wazehist\_track* sensor entity several ways.

- Each night at midnight.
- Immediately by selecting *Event Log > Actions > WazeHist Load track locations for map*
- Immediately by selecting *iCloud3 Configurator > Actions > Waze Hist Map Track Load route locations for map display*

## **Debugging with Tracking Monitors**

Tracking monitors can be displayed to identify errors and help answer questions related to device availability, poor location data errors, how the tracking results are calculated, etc. The messages are displayed in blue to help identify and highlight them.

• Select Event Log > Actions > Show/Hide Tracking Monitors command.



### **Debugging with Log Level**

The *Log Level* on the *Event Log > Actions* drop down list and on the *Configurator > Other Parameters* screen specify the type of logging records to add to the Home Assistant log file (*homeassistant.log*). They are:

Info - Normal operations, add few records for the results of a location request.

```
2022-11-05 13:29:00.267 INFO (SyncWorker 4) [icloud3] [gary_iphone] Tracking Results: From-Warehouse > NextUpdate-1:59:00p,
Interval-30 min, TravTime-24 min, Distance-12.3 mi, Direction-in_zone, Moved-0m, Method-3.InHomeZone
2022-11-05 13:29:00.282 INFO (SyncWorker 4) [icloud3] [gary_iphone] Tracking Results: From-Home > NextUpdate-1:59:00p, Interval-3:00p,
min, TravTime-, Distance-0 mi, Direction-in_zone, Moved-0m, Method-3.InHomeZone
2022-11-05 13:29:00.387 INFO (SyncWorker_4) [icloud3] [[illian_iphone] Tracking Results: From-Home > NextUpdate-1:59:00p, pdate-1:59:00p,
Interval-30 min, TravTime-, Distance-0 mi, Direction-in_zone, Moved-0m, Method-3.InHomeZone
```

**Debug** - Add more detailed records related to location requests, how the data is processed and the results.

**RawData** - Add records for setting up iCloud3 (device\_tracker and sensor entities, zones, devices, etc.), the iOS App data used to handle location update and triggers and the data requested from and received from iCloud Location Servers.

```
2022-11-04 18:20:18.241 INFO (SyncWorker_1) [icloud3] [pyicloud:0945] — FAMSHR PYICLOUD DEVICE DATA - (GARY-IPHONE/GARY) IHHONE - (GARY-IPHONE/GARY) IHHONE - (GARY-IPHONE/GARY) IHHONE - (GARY-IPHONE/GARY) IHHONE - (GARY-IPHONE) (GARY) IHHONE - (GARY-IPHONE) (GARY) (GARY-IPHONE) (GA
```