

Release-Notes for v3.2.1

- The delivery of v3.2.1 package contains the following files
 - FloeNavi-App-3.2.1.apk: Full version of the app

Changes in v3.2.1 since v3.2

FloeNavi-App

- Grid not considered LOST (RED status icon) when stations do not provide COG/SOG. Grid is considered DEGRADED (YELLOW status icon) instead.
- Grid does no longer remove stations from the grid view that are only sending LAT/LON
- When updating the grid view between received AIS messages, stations that do not send COG/SOG are drawn at X/Y-positions established at time of message reception.

New Features in v3.2 since v3.1

SyncServer

- Synchronizing of additional base stations
- DELETE operation for device information
- Support to store log files received from the tablets

FloeNavi-App

- Synchronization of additional base stations
- Logging support

New Features in v3.1 since v3

SyncServer

- Export Device Operations
 - Support for Flag: EXPORTED, PENDING, EXCLUDED
- Issues resolved
 - CSV fields filtered for **newline** characters
 - Device Operations only exported once
 - CSV timestamp adjusted to reflect non-standard datetime format requirements

FloeNavi-App

- Issues resolved
 - Removing Origin-Station or X-Axis-Station no longer stops the App

New Features in v3 since v1

SyncServer

- Synchronisation
 - Logistical Installations
 - Grid Configuration
- Sending Configuration Information to the app
 - Admin PIN
 - Security PIN
 - Mothership MMSI
- Providing overlay map image and configuration for the app
 - Upload folder on SyncServer host
- Support for replacing the grid with a new grid from the app

FloeNavi-App

- Grid Configuration
 - Grid with Origin and X-Axis
 - Adding and removing additional base stations
- Grid View
 - Showing Logistical Installations
 - Displaying Waypoints
 - Tracking of Mobile Stations
 - Showing Base Stations (origin, x-axis and additional)
 - Shows Mothership
 - Zoom and Pan
 - Map image overlay
 - Waypoints, Logistical Installations and Base Stations can be hidden
 - Popup shows name, lat/lon and x/y of each icon
- Creation/Logging
 - Logistical Installations
 - Device Operations with joined Logistical Installations
 - Waypoints
- Synchronisation
 - Logistical Installations
 - Device Information and Operations
 - Grid Origin and X-Axis Station
 - App Configuration (security configuration and mothership mmsi)
- Map support
 - Download of map from the SyncServer
 - Rotation and Scaling
 - Tracking map using origin and x-axis station

Known issues

App & SyncServer: Logistical Installations Synchronisation which changes on the sync server and local modifications on the tablet

- Setup: Observed when testing with two tablets
- Note: Local changes on tablets do not get lost
- A tablet that has local changes to the list of logistical installations, will upload the local changes but will never download the merged state from sync server.
- If the state on the sync server changes again, because of an update made by another tablets, both tablets will correctly download the state from the sync server.

~~#### App: Invalid SOG and COG are ignored (fixed in v3.2.1)~~

- ~~• Stations that are not sending valid SOG and COG are not contributing to the grid drift calculation, therefore making the prediction of positions unreliable, inside the 3m window between messages.~~
- ~~• COG is typically not available for SOG below 0.4kn (0.2m/s). This will lead to estimated 36m difference between predicted and actual position for a 3m window between messages.~~
- ~~• When COG is not available, SOG and COG is assumed to be 0.~~
- ~~• Stations visibly jump on the grid when a new message is received for a station~~

App: Additional base stations exponentially increase the complexity of the grid calculation

- Using 8 additional base stations on a simulated tablet is the practical upper limit.
- Adding more stations above the limit will slow down the UI and increase battery usage

App: grid background map image only works when x-axis-station is part of the grid

- The map uses the distance between origin and x-axis station to calculate the scaling factor of the image.
- If there is no x-axis-station on the grid, the distance can not be calculated.
- The distance is only needed for the map background image, not for nominal grid operation.

~~**App: Grid does not distinguish between invalid packages and lost stations (fixed in v3.2.1)**~~

- ~~• The app will remove stations from the grid when they have not send any update for 10min~~

- A station that is sending incomplete messages, i.e. SOG and COG values are unavailable, is also considered lost 10min after the last valid (including SOG/COG) message is received.
- A station sending LAT/LON position will be displayed briefly on the grid, only to be removed with the next update (within 15s) if there was no SOG/COG in a message within the last 10min.
- A incorrect LOST message is triggered with every update. The station is not lost, it is just not sending “useful” (complete) information.

App

- Removing origin or x-axis base station not working (fixed in v3.1)
- Number of synced elements not shown in App Sync View (fixed in v3.2)
- Additional grid base stations are not synced between tablets (fixed in v3.2)
- App always downloads additional base stations from sync server, even if there were no changes

SyncServer

- No support for deleting device information (fixed in v3.2)
- No support for tagging device operations “do not export” tag (fixed in v3.1)
- No extended logging of synchronisation elements (fixed in v3.1)
- No synchronisation of additional grid base stations (fixed in v3.2)