

ForeFlight EFB Ownership Display Requirements Statement

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ForeFlight
Intelligent Apps for Pilots™

ForeFlight EFB Ownship Display Requirements Statement

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RE: EFB Own-Ship Display Supporting Requirements

To Whom it May Concern,

This letter is to support ForeFlight customers seeking approval for the depiction of own-ship symbols on maps and charts in ForeFlight Mobile for all stages of flight. Included is information about ForeFlight's features and database accuracy addressing the supporting requirements listed in AC 120-76D, Chapter 11.17.

Position Source Selection

The FAA recommends using an installed GNSS source for position data in an EFB. ForeFlight can receive position data from a number of installed avionics, including several from Garmin, Appareo, Satcom Direct, L3, Avidyne, FreeFlight, and Dynon for the display of own-ship on ForeFlight's map.

EFB Own-Ship Directionality

When receiving good position and heading data while moving, ForeFlight will display the own-ship as a blue aircraft icon, the style of which can be changed in the Settings menu. If ForeFlight stops receiving accurate heading data it will change the own-ship icon to a stationary blue circle.

EFB Own-Ship GNSS Data Stream

When ForeFlight stops receiving good position data, either because the source of the data lost power or because the data became unacceptably inaccurate, it will remove the ownship icon from the map. The accuracy value above which ForeFlight will remove the ownship from the map is 100 meters.

EFB Own-Ship Surface Use Accuracy

ForeFlight's proprietary airport map database - which is used to create the ForeFlight taxi charts - is designed for an accuracy of 5 meters or better.

ForeFlight creates georeference information for its proprietary taxi charts and FAA provided taxi charts using proprietary GIS software tools. Georeference information enables display of own-ship symbology on a taxi chart. The accuracy of the georeference data is triple verified by analysts using GIS software and proprietary tools. The georeferenced taxi charts are then visually compared to satellite imagery of the aerodrome for additional quality assurance.

ForeFlight Mobile does not display own ship position on any taxi chart that is not georeferenced or does not meet the accuracy requirements. ForeFlight Mobile validates the airport map database files after download from the ForeFlight servers to ensure data integrity.

Map Zoom

ForeFlight provides two features that can be used to gauge the scale of the display: the Ruler and Distance Rings. The ruler can be invoked on the Maps view by placing and holding two fingers on the screen at once, then manipulated by moving the two fingers, and shows the distance covered by the ruler and inflight performance calculations like ETE and fuel burn over that distance.

The Distance Rings setting overlays three concentric rings centered on the ownship icon that each have a label indicating their radius. By default these rings will automatically resize themselves as the map zoom level changes, from a minimum of 2-10 nm to a maximum of 400-2000 nm.



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