Maintenance Update 2.0.8

Version 2.0.8 fixes several minor issues that were identified by the user group in the initial release of Anywhere Map 2.0.   The issues identified and fixed include:

- Certain radio frequencies were being displayed incorrectly in the airport information screen.

- Private airports could not be located using the "find airport" tool, however they could be located using the Universal finder tool.

- Privately owned airports that are for open for public use were drawn on the map as if they are private strips.

- Private Airports disappeared too quickly as one zooms out.

- There were issues with Hidden windows being saved incorrectly when a view is saved.

- If the user name was blank, weather downloads could hang up.

- The terrain rendering became blocky under certain circumstances when in north up mode.

- Several issues were fixed that were causing system slowdowns under certain conditions.

- Fuel usage calculations in the ETE / ETA window and in the flight planning screen were incorrect under certain circumstances.

- The ability to output digital data for autopilots in experimental aircraft has been added.

- Auto Zoom mode has been altered to automatically cancel if any other zoom commands are given.

- If the map was set to Statute miles as opposed to nautical miles, the onscreen flight numbers were not being correctly displayed.

This update is an add on to XP 2.0. The 2.0.8 upgrade assumes that the user has already upgraded from XP 1.9x to XP 2.0. In order for 2.0.8 to operate, one must have first downloaded and installed XP 2.0.

What's new in Anywhere Map XP 2.0?

Anywhere Map XP 2.0 is represents the second generation of AnywhereMap Technology.   There have been major changes in the basemap data, obstacle data, and in the aeronautical mapping data.   In addition, the user interface has been improved, with modern display Tabs for view selection as well as user programmable toolbars.

Base Map information

Version 2.0 shows more base map detail than in any previous version of Anywhere Map. The original Anywhere Map was developed to run on Pocket PC computers that originally had only 32Mb of memory,

and in many cases did not support memory cards for mass storage. As a result, features such as highways, lakes and shorelines were highly approximated, and rivers were completely omitted. Second generation AnywhereMap shows much more detail in these surface features and includes rivers.   In AnywhereMap 2.0 cities and urban areas are also greatly enhanced.   In the first generation AnywhereMap, small suburbs of major urban areas tended to cluster up and did not declutter properly but in 2.0, the dots representing cities are better managed in urban areas, while isolated rural communities are shown for reference purposes. The urban area outlines are shown in much greater detail as well.

Obstacles

Version 2.0 of Anywhere Map includes all radio towers and obstacles that are over 100 feet tall (AGL). The original Anywhere Map only included 400 foot and taller obstacles. This limitation was again related to the legacy PDA devices for which the original Anywhere Map was designed.   The original AnywhereMap included approximately 12,000 obstacles in the database. The 2.0 database has nearly 100,000 obstacles included.   Managing this many obstacles on the screen would be a challenge, however we have included a new display option, Hide Benign Obstacles. A new algorithm causes short obstacles, such as cell phone towers to be hidden at just a few thousand feet, while extremely tall radio towers may show even if the aircraft is at several thousand feet AGL.   In all cases, obstacle conflicts are checked continuously in XP2.0, even if the obstacles are hidden.

Aeronautical Data

Version 2.0 uses an entirely new database structure with new features, more mapping data, and better relationships between the data.   This has resulted in significantly higher quality and quantity of data available to the pilot.   The new database capabilities in XP2.0 have allowed the addition of High and low altitude fixes and both Victor and Jet airways, runway data, marker beacons, navaid data, Localizer data, airport hours of operation, and runway conditions.   In addition, thousands of approach procedures as flight plan segments are available from the FAA's official National Flight Database. These approach segments include target altitudes and missed approach procedures. We have also integrated Pocket Plates and AnywhereMap XP together, so that approach plates from Pocket Plates can be directly loaded and displayed from the XP airport information screen

Anywhere Map XP 2.0 Major Upgrades

Surface map features

- Terrain elevation map coverage area has been increased to include Alaska and Hawaii
- Rivers have been added to the database for display. Current rivers depict the center line of the waterway.

- Lakes and shorelines have been regenerated to a much higher degree of detail than in the past
- Highways and roads have also been regenerated from new data and are included at a higher degree of detail.
- Urban areas and city identification tags have been improved, both in detail and also as related to automatic decluttering.

Obstacles

- 90,000 new obstacles have been added to the database of obstructions, this is nearly 10 times as many as we used to support. This was done by adding all obstacles greater than 100 feet high to the database, and improving decluttering algorithms.

Aeronautical Database items

- Runway conditions, airport hours of operation are all shown in the airport information screen.
- Right hand traffic patterns graphically shown on the airport diagram, and in the runway listing.
- High altitude Fixes and Jet airways are included in the database and can be selected or hidden.
- Victor airways and Jet airways now "routable" in flight plans.
- MOCA's and much more airway detail is available.
- Improved data for Localizers and Marker beacons
- Class B, C, and D airspaces now generate altitude sensitive warnings of proximity and also warn that one is inside of an airspace segment as well as approaching an airspace segment.
- Thousands of approach procedures taken from the FAA's National Flight Database, updated every 28 days, including altitudes. These are selected from the airport information screen and are automatically appended to the existing flight plan. At the present time most GPS RNAV approaches are in this database, with appropriate altitudes for each crossing fix. The pilot must put in the MDA for all approaches, as there are several categories of approaches.
- Improved depiction of Prohibited airspace.

User interface and Utility value

- Fully user customizable toolbars. To customize any toolbar, simply tap on the little down arrow on each bar. The bars can be undocked and floated over the map, or docked to any screen border.
- Tabs in the map window to select multiple views. This makes it easy to switch map depictions.
- Fuel price information from 100LL.Com can be shown next to airports on the map screen. This display can be enabled and disabled in the view settings screen / airports tab.
- Integration with Pocket Plates, Select any approach plate from the airport information screen (double tap on an airport or look it up).
- Auto Zoom functionality in XP
- More Tappable information including Airway numbers, moca's, mea's, and distances.

- Improved Route wizard screen with drop down lists for start and endpoints. One can still enter the entire route in the "route" box as before, OR enter the start and end airports in the drop down list, while including only waypoints in the big box.
- Airport depiction on map improved. Towered airports are now shown in blue, as on sectionals.
- Direct Database update function automated database update from within app.
- Airway routing wizard allows one to join and follow airways in flight planning and route entry. To use this feature, tap on a fix or navaid that lies along an airway and press the JOIN airway button. If the JOIN Airway button is grey, there are no airways associated with this fix. Inserting an airway route into a flight plan also loads the MEA for each airway leg and it is displayed in the flight plan listing.
- Automatic Virtual ILS technology will automatically extend runway centerlines for the runway at the destination airport. This is done dynamically so that the information is depicted for the runway that the aircraft is best aligned with. This feature is enabled in the View settings / Airports tab.

Weather related improvements

- All weather related menu items are now under the "Weather" menu.
- Airmets and Sigmets from XMWX with tappable text (just tap a vertex of the area). Airmets can be shown or hidden by category. See the view settings / wx tab for details.
- Canadian Nexrad available for viewing
- Nexrad Smoothing is an option for a less blocky appearance.
- Added new "Blue SKY" metar flag condition. Blue in Metar flag means "severe clear" conditions; Ceiling >10000, Visibility > 10.
- Echo tops altitude now selectable in Weather screen. This lets one hide the echo tops that are below the settable altitude.
- SFR text information available by tapping on the SFR tag.
- Improved XM statistics logging and display.