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How to use Location/GPS data and maps in Cellica Database application?
(Personal/Enterprise Edition)

Product(s)

Cellica Database (Wi-Fi, Internet and Anywhere) Personal Edition or Enterprise Edition

Symptoms

Not Applicable.

Details:

You can use **Location Services using built-in GPS or Apple approved External GPS accessory like Bad Elf, and Maps** to work with location data in Cellica Database application as described in the following pages.

1. Using Location Service:

Use “Location” control while designing form. Location services use GPS along with crowd-sourced Wi-Fi hotspot and cell tower locations to determine your approximate location or Apple approved external GPS accessory like Bad Elf (<http://bad-elf.com/products/be-gps-1000/>).

You can assign Location control to hold any of the following value,

Latitude: To get Latitude value.

Longitude: To get Longitude value.

Latitude/Longitude: To get comma separated Latitude and Longitude value.

Heading: To get Heading value.

Region: To get region with respect to the current location value (Latitude, Longitude and Radius). (For iOS only)

Altitude: To get Altitude value.

Horizontal Accuracy: To get horizontal accuracy with respect to the current location value.

Vertical Accuracy: To get vertical accuracy with respect to the current location value. (For iOS only)

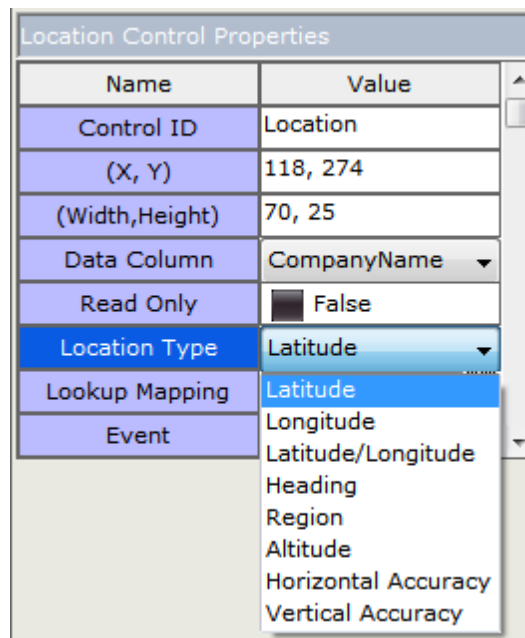


Figure 1: Setting "Location Type" property of Location Control

You can set Location control to automatic update for assigned value type of some record operations like Adding Record or Updating Record. Set "Auto Update" property to:

None: If you don't want autofill of Location control on record operations.

OnNew: Setting this will fill Location control when user tap on "New" button for adding a new record with value depending on "Value Type" property.

OnEdit: Setting this will fill Location control when user tap on "Edit" button for updating record with value depending on "Value Type" property.

Both: Setting this will fill Location control when user tap on "New"/"Edit" button for adding a new record or updating existing record with value depending on "Value Type" property.

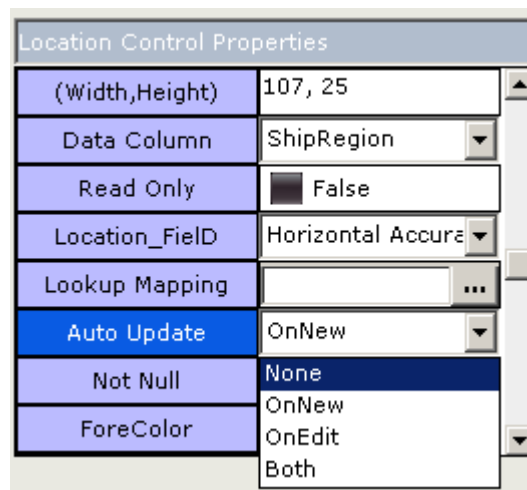


Figure 2: Setting "Auto Update" Property of Location Control

2. Pre-requisite:

To use location services, you first need to confirm some setting on your device as follows:

For iOS:



Figure 3: Open preferences in Cellica Database application



Figure 4: Set "Use Location Info" to ON



Figure 5: In Settings of your device make sure Location Services are ON



Figure 6: Set ON location services for Cellica Database



Figure 7: Location services are ON

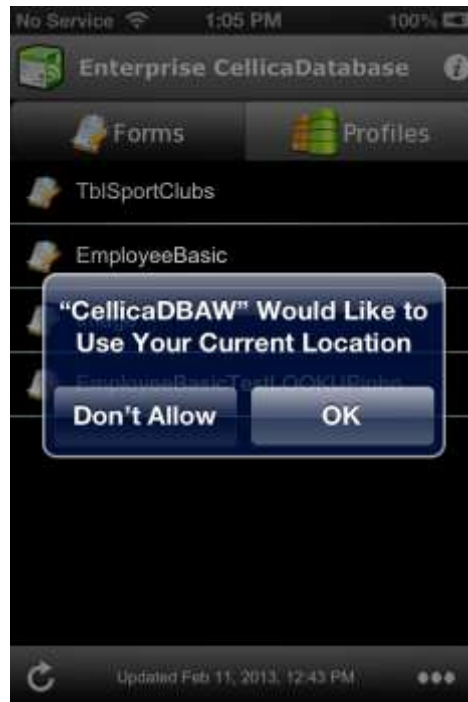


Figure 8: Application will ask to grant permission for use of location, Choose OK

For Android:

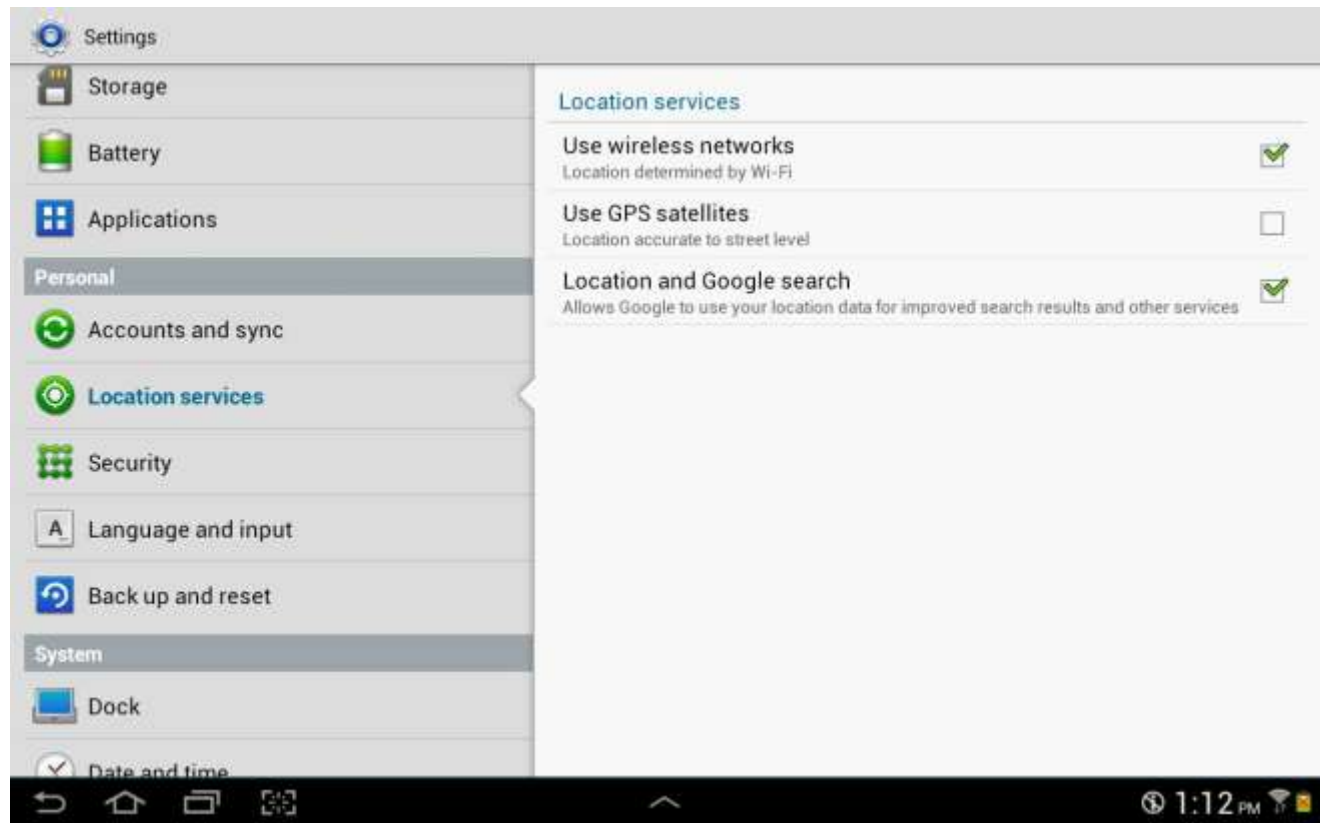


Figure 9: Set required Location services ON in Settings

3. Using GPS-based Location Service:

Now when you add record using NEW button/Update record using EDIT button, depending on “Auto Update” property value Location controls on the form will be auto-filled with assigned “Location Value”. You can also do same by tapping inside location control; it will be populated with the current location, which it got using either built-in GPS or Apple approved external GPS accessory like Bad Elf.

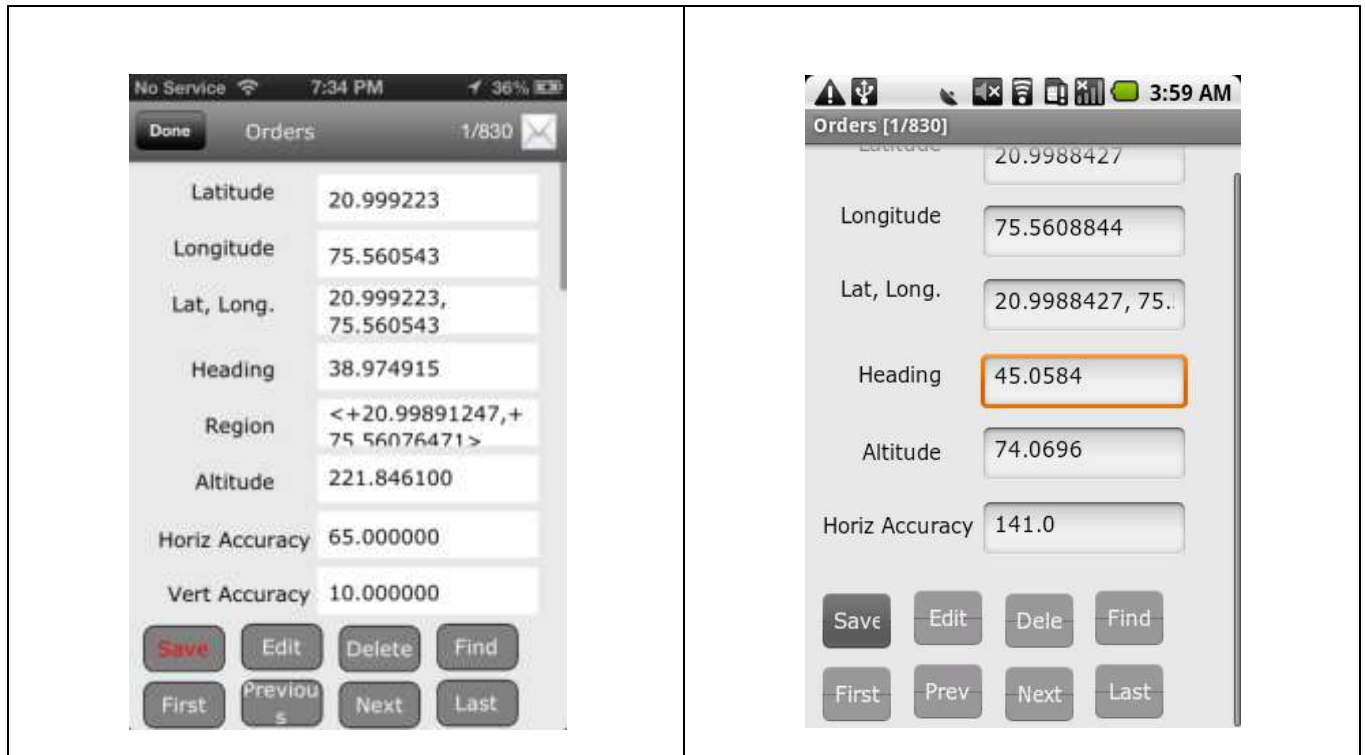


Figure 10: Location control with the current location on iOS and Android

4. Using maps to get Location and address (Requires connection to Internet):

If you want to view or get a location on a map, from TextBox or Location Control then use this functionality. Cellica Database uses Google Map.

For iOS:



Figure 11: "Bill To" TextBox Control with Location coordinate

Long press (Tap and hold for a longer time) and release on "Bill To" TextBox, you will get presented with the following list of options:

- 1) **Show on Map:** This option will show the location using value in control "Bill To" on the map.
- 2) **Address from Control Value:** If you want to get Address from location coordinates then use this function. It will give you address in text format using reverse geocoding of location value.
- 3) **Location from Control Value:** Use this option If your form control contains the address in textual format and you need location coordinates.

Following options are useful in getting Address/location using Map to use in form control

- 4) **Address From Map:** You will allow to choose address/location on the map and then this textual address will get populated in form control.
- 5) **Location From Map:** You will allow to choose address/location on the map and then its location coordinates get populated in form control.



Figure 12: View location on Map

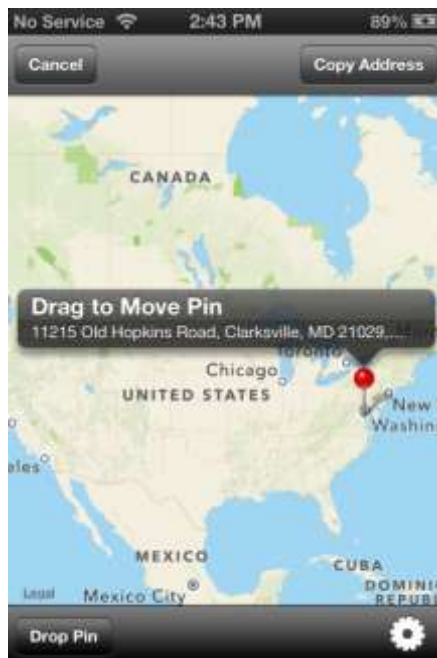


Figure 13: Choose address using map



Figure 14: Address retrieved from Map

Press [Done] to set this address in Form Control.

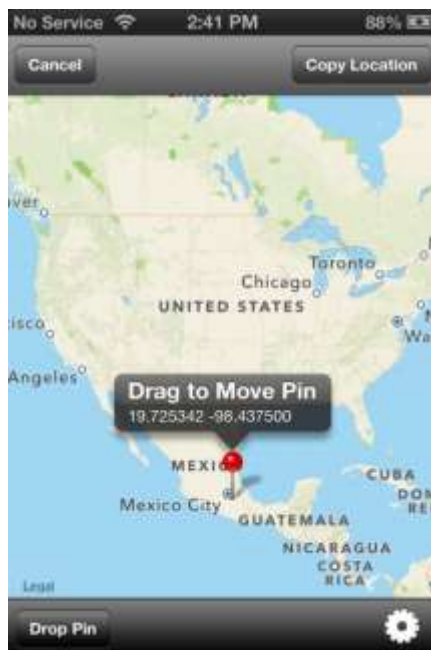


Figure 15: Map showing location values while choosing address



Figure 16: Location Coordinates retrieved from map

Press [Done] to set this address in Form Control.

For Android:

Long press and release on any TextBox or location control, you will get presented with the following list of option,

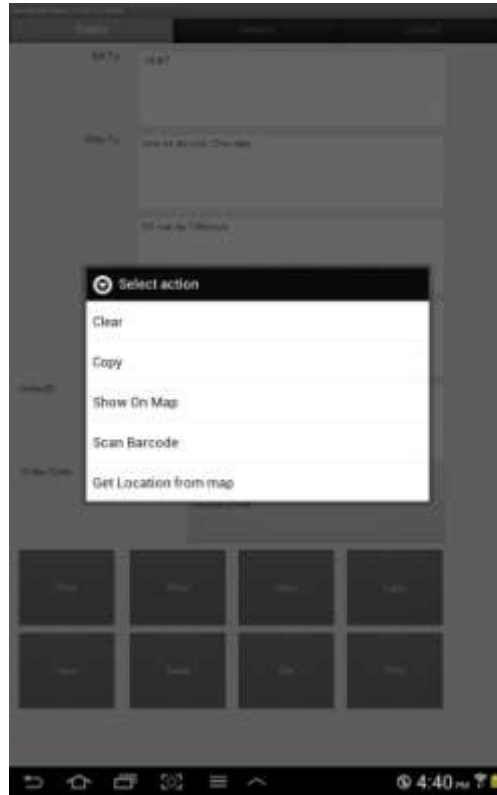


Figure 17: Select Show on Map/Get Location From Map

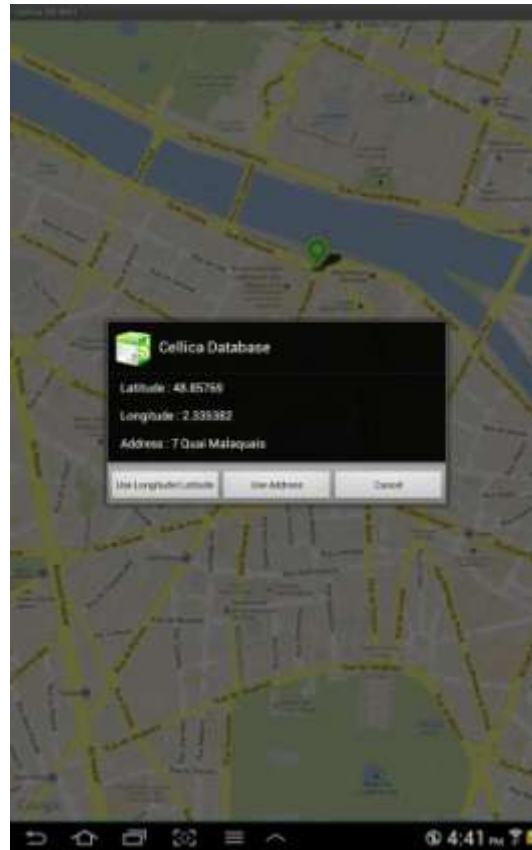


Figure 18: Get Location from Map

Choose “Use Longitude/Latitude” or “Use Address” to retrieve the required location value in control from map.