

OnTime Mobile & Beacon Integration

OnTime Mobile

Available on iOS and Android, the OnTime Mobile application is designed for users to be able to Clock In/Out from a mobile phone.

Locations/Sites are set up within AirStack using a postcode. A Geofence is defined for the site, within a minimum of 100 metres. The Geofence will prevent users Clocking In/Out when not within the given radius determined by the GPS location on their mobile device.

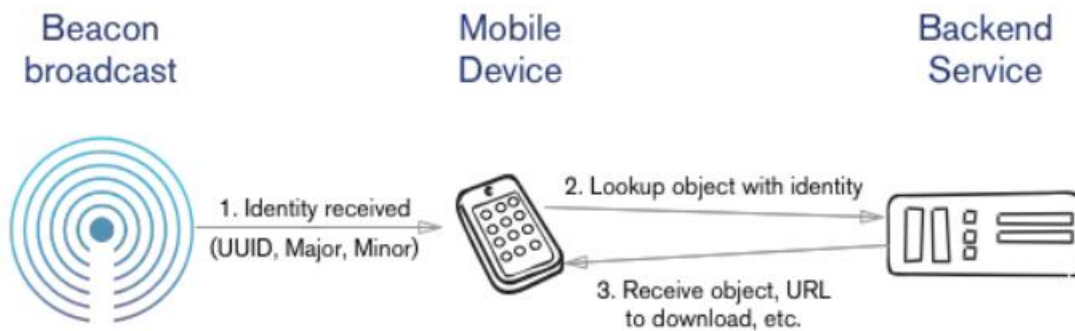
Features

- Available on iOS and Android platforms.
- Additional Clock In/Out solution working in parallel with SmartHub devices.
- Accurate – Ensure employees are on site by using the Geofence technology. A GeoTag (location Pin) is recorded at the time a ClockIn/Out event is recorded and can be viewed by an Employee/Manager.
- Secure – Using phone biometrics before the Clock In/Out can be completed. Mobile passcode is used where biometrics are not available.
- Close Proximity – Using Beacon Terminals (Add On) advanced accuracy can ensure employees can only Clock In/Out within a few metres at a given location.
- View Hours – Employees can view their hours worked through OnTime Mobile.

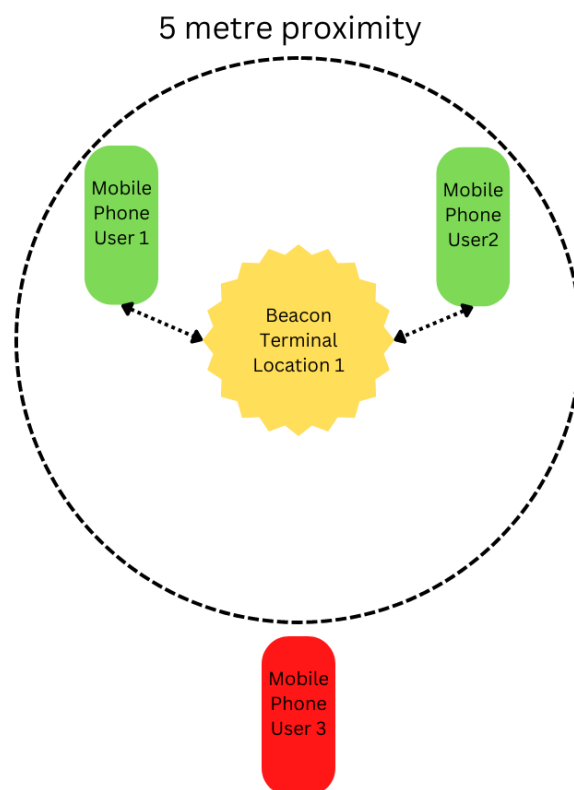
Beacon Integration

Using Bluetooth Low Energy (BLE) Beacon technology a user can be restricted to Clock In/Out when they are only in close proximity to a Beacon Terminal. A Bluetooth Beacon is a small wireless device that works based on Bluetooth Low Energy. It's kind of like a lighthouse: it repeatedly transmits a constant signal that other devices can see. Instead of emitting visible light, though, it broadcasts a radio signal that is made up of a combination of letters and numbers transmitted on short, regular intervals. A Bluetooth-equipped device like a smartphone, gateway, or access point can "see" a beacon once its in range.

1. A Beacon Terminal is installed in close proximity to the Fingerprint (SmartHub) device.
2. An OnTime mobile app 'Admin' user can preconfigure the Beacon Location (Latitude and Longitude) and proximity range in metres, e.g) up to 5 metres.
3. An end users phone automatically connect to the Beacon Terminal.
4. An OnTime mobile app user has to be within the 5-metre proximity range to be able to Clock In/Out at that location.



In the example below, the configurable proximity is set to a 5-metre radius from the Beacon Terminal. User 1 and 2 are able to Clock In/Out at 'Location1' via the OnTime mobile app as they are within the 5 metre radius. User 3 is unable to Clock In/Out as they are outside the range of the Beacon Terminal located at 'Location 1'



Accuracy and Installation Guidelines:

Minimizing the space between the iBeacon nodes will increase the system's accuracy.

- If there is a 10-meter spacing between the Beacon nodes, it can offer an average accuracy of 2 meters.
- If there is a 15-meter spacing between the Beacon nodes, it can offer an average accuracy of 4 meters.

Mirrors and metal objects effect the accuracy of the Beacon due to their reflection on the Bluetooth signal propagation.

Positioning the Beacon nodes closer to each other is not going to increase the accuracy of Beacons because they have the same signal strengths.

The physical location of Beacons has a noticeable impact on accuracy. The manufacturers recommendations are to install them in the following locations:

- An object that is extremely close to the ceiling
- On the upper area of a wall
- Inside a false-ceiling
- On the ceiling
- On an item that is close to the ground
- On the lower part of a wall/column
- On the ground