Shipcom Wireless Workplace Contact Tracing and Occupancy Monitoring Solution helps enforce distancing guidelines and maintains a record of interactions to help return people to the workplace safely where interactions are unavoidable.

Challenge

Until there is a vaccine for the coronavirus, social distancing will be required as we get back to work and try to return to some level of normalcy. And for those not yet immune, contact tracing is needed to help prevent flare-ups. Devices like cell phones can be used to record interactions very effectively at close distances. In addition, employers need a solution that complements this approach to make it consistent and under their control.

Solution

For a solution to be effective, it must:

- Deploy fast and economically
- Alert users in real time
- Provide unobtrusive sensors
- Configurable conditions
- Analyze trends & behaviors
- Leverage existing Wi-Fi
- Uses multiple technologies
- Modular and Scalable

The Shipcom Wireless Workplace Contact Tracing and Occupancy monitoring Solution uses multiple technologies to enable employees enforce CDC guidelines for social distancing and automate contact tracing.

Contact Tracing using phones

Shipcom’s Mobile App enables mobile phone to communicate with each other autonomously without supervisory control. Data collected by the mobile phone is communicated to the Shipcom’s cloud-based software system which analyzes contact information and manages the mobile app.

Occupancy monitoring with sensors

Workplace employee location tracking helps implement social distancing by controlling and alerting if number of employees on a floor or zone exceed. Sensors fitted at zones check the number of workers in each zone and update the Shipcom’s Cloud System.

Add consistency and enhanced control

Shipcom provides an additional wearable device, that works along with the mobile phone and enables contact tracing if the phone is away from the person. The wearable device once getting connected back with the phone, will push the contact data captured to the cloud.
How it Works

Shipcom’s Mobile App enables Bluetooth’s feature BLE to transmit and listen to unique Bluetooth ids. When people come within six feet of each other for a period of time, the mobile phone makes an audible chirp and a record of the contact is made in the Mobile storage. The recorded contact data will be pushed to the cloud at periodic intervals.

Shipcom's wearable device is an additional hardware component used for contact tracing if the mobile phone is away from the person. The data from the wearable will be pushed to the phone and then to the cloud.

For occupancy monitoring, Shipcom provides beacons which are required to be installed at specific locations to detect mobile phones and wearable badges.

The software system maintains reports and supports custom workflows for alerts and report generation. Platform analytics provide a view into behavior trends, potential hot spots, and reports at individual, group and department levels.

Because location data is not collected, employee privacy is protected.

Other Solution Modules

- AI video analytics-based Occupancy Tracking
- AI Video Body Temperature measuring, Face Identification and PPE compliance
- Temperature and Humidity Monitoring

WHY SHIPCOM WIRELESS

Experts in wireless location systems for over 20 years, Shipcom Wireless understands elegant solutions.