# HID Bluzone™

## Efficient cloud management and monitoring of Bluetooth® Low Energy (LE) beacons

Bluzone™ is a cloud based Software as a Service (SaaS) to centrally manage BEEKs™ Bluetooth Low Energy (LE) beacons via Blufi™ Bluetooth LE to WiFi gateways. Bluzone's basic functionality is hardware fleet management with optional add-ons for Workplace Optimization, Item Management (RTLS) or wireless Condition Monitoring of equipment.




The Bluzone web-based console provides a powerful user interface (UI) to query and configure every aspect of a fleet of BEEKs beacons and BluFis, including remote firmware updates. Bluzone supports two authentication providers: Bluzone and Google via OAuth2. OAuth2 enables Single-Sign-On in order that admin users utilize their standard work login also for Bluzone.

At a glance, the Bluzone dashboard shows hardware deployed, in range and in or out of compliance according to the configured policies. Over a dozen different policy types can be configured for all or a group of beacons to alert on situations. For example: Presence, battery, temperature, motion, location, geo-fence, proximity, enter/exit, tampering etc. Policy violations can be logged and/or sent via alert per e-mail.

Bluzone's location engine positions BEEKs beacons efficiently through geo-coordinates on mapping engines from Google, Bing or Baidu. Floor plans of buildings are easily imported as JPG or PNG graphics. Automatically generated heat maps or historical paths help to optimize building utilization or work processes. Status and Condition Monitoring artificial intelligence (AI) functions help detect and potentially even predict failures of equipment where BEEKs with condition sensors are mounted.

Standard Bluzone console functions and additional features are available using publicly documented RESTful APIs allowing HID partners or end-users to build their own dedicated consoles for specific use cases or vertical markets or link to their ERP systems. An interface to Siemens MindSphere is also available.




### KEY BENEFITS:

- Bluzone™ Fleet Management – Monitor beacon status and update configuration remotely
- Bluzone™ Workplace Safety / Occupancy Management – Enable Contact Trace Compliance / Reporting & Analysis and Optimize building utilization
- Bluzone™ Item Management – Find assets quickly in buildings or across a campus using Real Time Location Services (RTLS)
- Bluzone™ Condition Monitoring – Check performance status of motorized equipment remotely and alert on failures

### TECHNOLOGY HIGHLIGHTS:

- Remote management of BEEKs™ Bluetooth LE beacons and BluFi™ Gateways
- Query telemetry data of endpoints
- Push configuration and firmware updates to endpoints
- Grouping and reporting functions
- Location and heat map info using standard geo-coordinates
- AI algorithms for condition monitoring and RTLS
- Interact via web console or REST API
- OAuth2 support for Single-Sign-On
- Optionally support Location Services through Aruba Bluetooth LE enabled access-points

## APPLICATION AREAS:

### Condition Monitoring

- Wireless status info on motorized equipment (on/off)
- Fault detection based on vibration or temperature trends
- Reporting of equipment duty cycles
- Cold chain applications

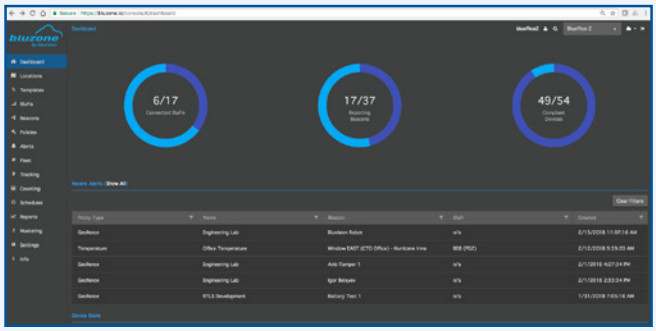
## REAL-TIME LOCATION AND SAFETY

- Indoor position tracking of assets (Tools, portable equipment, vehicles)
- Zone based alerting, heat maps, etc
- Building occupancy
- Contact Tracing & Physical Distancing
- Personal alerts via BEEKs Duress device

## RETAIL ADVERTISEMENT

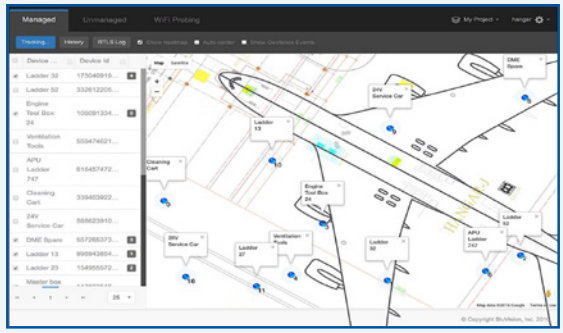
- BEEKs beacons may be used in iBeacon and/or Eddystone mode for advertising messages or location based services
- Central provisioning or monitoring via BluFi and Bluzone possible

## BLUZONE™ SAAS FLEET MANAGEMENT



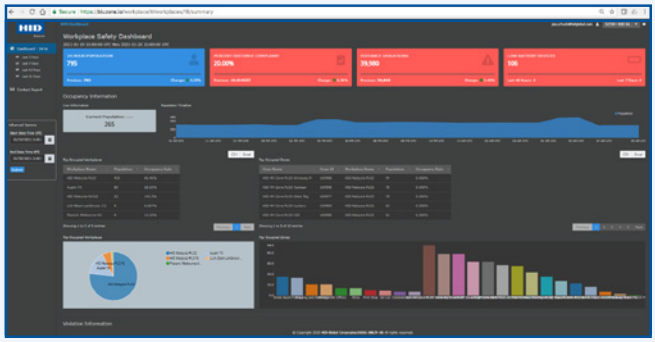

This is a basic subscription to manage installed BEEKs and BluFi hardware. Receive battery status query and push policy or firmware updates. Licenses are per managed item (BEEK or BluFi). Ideal use cases for fleet management without add-on modules are e.g. Retail iBeacon / Eddystone or wayfinding applications.

## BLUZONE™ SAAS ITEM MANAGEMENT RTLS



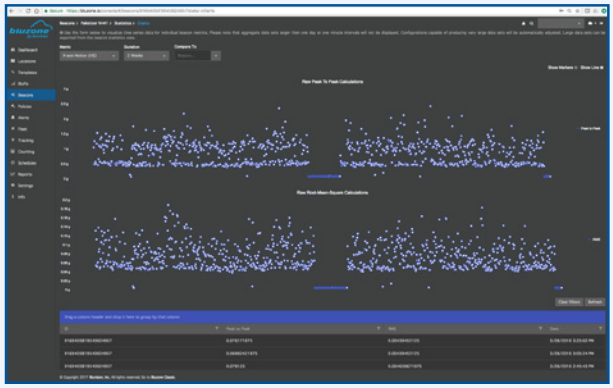
Add-on package that is designed to support asset location tracking in office environments (e.g. hospitals, parting lots) or production environments. Licensed per beacon. While RTLS can quickly help locate an asset that is needed - like a tool, a diagnostic device or other mobile equipment, historical heat maps and location paths help optimize future workflows, prevent accidents and help enforce safety zones.

## BLUZONE™ SAAS WORKPLACE SAFETY / OCCUPANCY



Add-on package to RTLS providing Workplace Safety dashboards/ reports and APIs for contact tracing and physical distancing use cases to keep enterprises safe and compliant. Besides contact exposure, also low battery alerts are issued allowing in-time replacement. Licenses are per managed item (BEEK). Service fee includes software license, server hosting, 90 day data storage, backup, data transfer, free update, upgrades and 3rd level technical support.

## BLUZONE™ SAAS CONDITION MONITORING STATUS | ADVANCED



Add-on package provides status information about equipment that has a BEEKs Condition Monitoring beacon with sensors mounted. Licensed per beacon. Status condition monitoring will alert on start or stop of (vibrating) equipment, temperature being outside a given range, etc. BEEKs beacons can easily be retrofitted on almost any type of equipment to receive immediate wireless detection of failure. Advanced condition monitoring aims to warn about future equipment failure by the utilization of AI algorithms evaluating vibration sensor trends over time. Raw sensor data can be provided for further analysis by third-party tools.


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2022-12-05-idt-iots-bluzone-ds-en PLT-03821
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