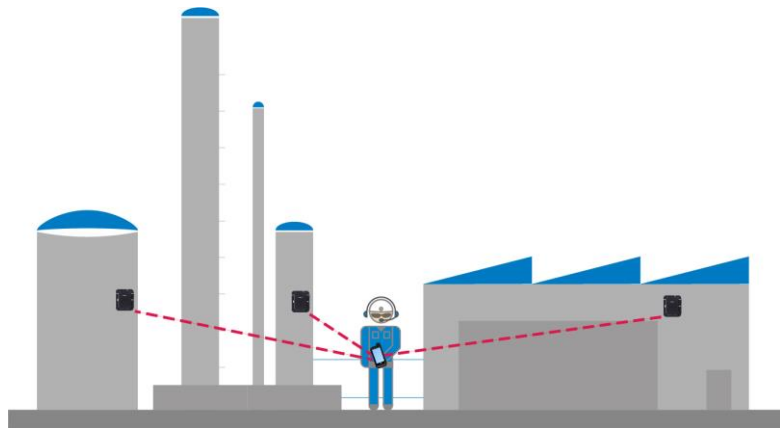


their UV-resistant housing material the beacons can be used both, indoors and outdoors – delivering contextual information to users, based on their exact location.

For example, when a mobile worker is approaching an asset, specific notes about that asset – based on who he is and what he needs – can be brought up via individual applications on the screen of the tablet or smartphone, without having to manually navigate to the right content. This would then prompt the right workflow or data that



helps the mobile worker to do his job and navigate around the hazardous area, avoiding unnecessary detours or tagged danger zones. Furthermore it is also possible to change important Loc-Ex® 01 operating parameters „over the air“ to adapt quickly to any given situation on site.

BLE Beacons help to drive business intelligence

Loc-Ex® 01 - BLE Beacons bring the ability to augment digital and physical data into a single, unified business intelligence unit to hazardous areas. They provide a low cost, basically maintenance free (battery exchange by up to five years) way to connect assets to the Internet to gather data from them.

With a single access point, the beacons can deliver information back to companies, to quickly identify potential issues or help improve workflows, enabling engineers to cut down on time spent at the end of each day on administrative tasks, significantly increasing wrench-time.

Loc-Ex® 01 - BLE Beacons are all about gaining insights to operations and asset information, such as log-in data, average dwell times, number of engagements, temperature measurement and other metrics that companies have come to look for from the digitization of the industry. An open firmware also allows an individual BLE profile development.

Augment traditional access control systems

Beacons can also augment traditional access control systems and can make time-consuming registration processes redundant. They provide a secure physical access and guard control system by recognising a user's device when he arrives at a specific location and capture data about the individual to allow or deny access.

Additionally, by using BLE Beacons in combination with explosion-proof tablets or smartphones, workers can be automatically logged in and provided with plant schematics and



diagrams, pre-loaded on each device as soon as they are near a site. This enables visitors who are otherwise unfamiliar with a site to find exactly what they need, while significantly cutting down on time lost.

Upgrading workforce safety

Reducing the risk of operations is essential for any company involved in hazardous area operations. Taking advantage of the latest technology advances, the Loc-Ex® 01 - BLE Beacons in combination with the Smart-Ex® 01 and Tab-Ex® 01 – based on the Samsung GALAXY Tab Active – help to simplify and streamline the way mobile workers operate and interact with each other, their remote experts, and their backend systems.

Having a device that is capable of broadcasting sensor data provides a huge upgrade for workforce safety, giving mobile workers piece of mind that if any accident were to occur that they are registered, and can be located and retrieved the fastest way possible via Lone Worker Protection (App Solution). This significantly reduces the workers exposure to risks, improving the overall safety of operations.

Loc-Ex® 01 - BLE Beacons are part of the Mobile Worker Ecosystem

When it comes to deploying beacons, there are some key benefits for companies and mobile workers, enabling higher levels of safety, efficiency and productivity within hazardous industries today. ecom has a central role in helping to connect assets, spaces and locations via its distinguishing Mobile Worker Ecosystem.

The Mobile Worker framework provides companies with a comprehensive, flexible and integrated wireless ecosystem built around rugged and explosion-proof mobile computers (tablets, smart phones, PDAs), wireless peripheral devices and smart software applications as well as specialized services and support. Accordingly, ecom enables new levels of collaboration together with huge improvements to data integrity and workflow and asset-management by providing the right information or delivering the right tools into the hands of engineers and mobile workers in hazardous areas.

For more information, please visit ecom's website: www.ecom-ex.com

About ecom

ecom instruments is a leading global provider of integrated solutions and mobile computing and communication devices for use in potentially hazardous areas as found in the chemical, petrochemical, pharmaceutical, oil and gas, mining, power generation, and food and beverage industries.

For 30 years, ecom has set the standards and gathered comprehensive expertise in explosion protection for daily use in hazardous industrial areas across the globe.

In its four core disciplines of communication, mobile computing, portable lighting and measurement/calibration, ecom instruments offers reliable intrinsically-safe and explosion-proof products, wireless peripheral devices, and smart software applications – all backed up with worldwide assistance from service centers in Germany, USA, UAE and Singapore and from ecom subsidiary offices to reduce your risk.

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