



## CLEAR AUDIO UNDER HARSH CONDITIONS WITH TASSTA

### SITUATION

The fabrication, processing and preparation of products demand a very disciplined and organized working environment. Workers need to convert all raw materials into different useful elements that we all use in our everyday lives. Companies in the stone, clay, glass and concrete industries as well as the tobacco industry, paper and related companies or textile and leather factories are just a few of the manufacturing companies that use nature's raw materials as a source for their products.

The work environment for these companies presents certain challenging conditions, especially in the quarry and manufacturing areas. Communication is vital in these

factories to ensure continuing operation of the manufacturing process to minimize delays. Therefore, a reliable and strong communication system is essential to ensure safe, efficient and productive procedures in this working environment.

TASSTA's solution is quintessential for companies that manufacture a wide variety of goods including food and beverages, chemicals, computers and electronics, constructions, machinery, transportation equipment and end-products that every person uses in his or her day-to-day life.

### MARKET CHALLENGES

Due to the large number of tasks and activities, these types of companies perform every day, they normally communicate through a variety of different channels to keep daily operations running effectively. In addition, in many manufacturing companies the working environment can be very challenging and dangerous to employees. Emergencies are a daily occurrence.

TASSTA's solutions help to overcome the challenges and ever-present emergencies of many manufacturing companies. Some companies, like those in the chemical industry, have so-called "ex-hazard" zones. Such companies

usually have their own radio networks which very often suffer from service failures. These companies look for ways to optimize or upgrade their entire communication system. With TASSTA and Explosion-Certified smartphones, these zones can be handled with excellent communication solutions.

TASSTA is a perfect alternative to future-proof a company's communication needs. T.Bridge is the middleware solution that can interconnect to the existing radio or other communication network. This allows any TASSTA T.Flex client, using any smartphone, the ability to communicate with different radio users.

## SOLUTION

For crisis teams in mission-critical situations, TASSTA's mobile client application (T.Flex) and dispatcher client application (T.Rodon) jointly deliver advanced communication capabilities to allow all manufacturing staff to instantly communicate via Push-to-Talk (PTT). Groups can be defined to facilitate the routing of relevant information, emergency alerts can be customized based on an incident type, and Dynamic and Priority calling is supported. These features allow staff and management to work faster, bringing critical situations under control in just a few minutes.

At its simplest, T.Flex, TASSTA's mobile application, can be easily installed onto any smartphone and configured individually, so that all voice, text or data messages are delivered instantaneously. This ensures real-time communication between workers. In addition, when the "Emergency" button is pushed, it will send an alert to the security department running the T.Flex on either another smartphone or personal computer. This ensures that anyone with the application now has emergency alerting capabilities, avoiding the need to provide single-purpose radios or other devices to users.

T.Flex has a number of different options that can be configured to provide more advanced communication capabilities. Using the sensors within the phones, "Man Down" alerts can be sent when a user has fallen or has stopped moving; GPS and Indoor Localization can transmit the exact location of all connected devices; Audio Feeds can be enabled from any device whose emergency button has been pushed. T.Flex uses the immense computing and sensor functions present in today's devices to deliver advanced communication and emergency services.

The T.Rodon dispatcher client provides additional capabilities. In conjunction with the T.Flex client, it is a full-featured dispatch, command and control center. It can transmit Push-to-Talk (PTT) messages and data to individual users, create and track tasks, provide voice recording and monitoring GPS, and manage all user activities in the factory.

TASSTA's T.Flex and T.Rodon leverage the company's investment in Wi-Fi and hardware devices to provide an over-the-top application that suits the needs of all different groups within the facility.

All workers now have the ability to send any message or update and also push an emergency button if necessary; additional operational departments can use the Push-to-Talk (PTT) application in lieu of a single-purpose radio and can also use T.Rodon as a dispatch solution, managing work tickets with its Task Manager module.

Another innovative, that TASSTA offers for these industries is NFC Tag Scanning. This helps companies recording and controlling the restricted areas where employees need to pass through authentication zones or get authorization to enter certain spaces. Additionally, manufacturing companies

can also monitor the industry for environmental damage (Green Rules) by using the TASSTA Guard Tour feature, monitoring the guard route. This requires the device to check in at all points along the route. Once the NFC or QR Code is scanned, the system will record the information including date, time, username and place in the database.

TASSTA's T.Flex and T.Rodon are ideal for the unique and challenging communication needs of any manufacturing company. Utilizing standard, off-the-shelf Android or iOS mobile or fixed devices – TASSTA turns these devices into virtual radios. These follow the regular radio behaviour, providing a large and highly developed amount of communication and emergency features which can be configured easily.



Professional devices, known as "ex-certified" ("explosion-certified"), robust and durable devices, are essential for this industry, since the users need to have devices with long-life batteries and physical buttons. TASSTA has excellent integrated physical buttons on these smartphones. Physical buttons play significant role when working with elements like gloves.

The LWP is a personal alarm system, used by employees who are continually working in potentially dangerous environments. The solution ensures employee safety. With LWP, the network can implement and provide both, user-initiated and device-initiated alarm signals in emergency situations. By simply pushing the alarm button, the user can initiate an intended alarm that is sent to all T.Flex and T.Rodon clients. Meanwhile, audio and video feeds can be enabled to get an overview of the situation and adequate help can be provided immediately. Additionally, the smartphone and LWP application can be configured thanks to TASSTA's T.Flex, so that the device will send an alarm based on a number of predefined settings: Man-Down, Movement, Impact and a number of other activities that the device monitors, are key features that any company will find useful to control their environment.

The generation of device alerts without any user intervention is a unique feature of TASSTA's LWP and T.Flex application.