

# Teva Pharmaceuticals Ireland Ltd. (Formerly IVAX)



## A Case History Outlining BlueBox Integration at a Leading Pharmaceutical Facility in Ireland

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# Summary

**This case history focuses on the smart integration of BlueBox with fire panels, call out consoles, lone worker monitoring portables and PC paging software to mobilise emergency responders at Teva Pharmaceutical Industries' facility in Waterford, Ireland. Sigteq brought their expertise in wireless technologies and emergency response communications to deliver a state-of-the-art solution.**

Teva's site is distributed amongst three buildings in an industrial estate. The Emergency Response Team are highly trained to deal with a range of potential situations. Some specific health and safety risks are:

1. Fire (Teva hold about 40,000 Liters of Flammable chemicals on site at any one time), and also have a number of laboratory areas where a variety of extremely hazardous chemicals, oxidisers, etc. are handled.
2. Risk of hazardous chemical spill (worst case spill is 20,000L of Ethanol). Chemical spill poses many hazards including fire, risk of environmental damage, risk of overexposure causing illness with the potential for multiple fatalities (in the event of a leak of an asphxiant e.g. Nitrogen, HFA, etc.)
3. Confined space entry.
4. Rescue from height.
5. First Aid incidents

The final solution was designed in consultation with the plant's health and safety specialists. Availability and integration between the three buildings and surrounds were primary design considerations. These were achieved via independent hardware components and robust fault tolerant equipment design.



Sigteq

## Company Profile

Teva Pharmaceutical Industries Ltd. (NASDAQ: TEVA) is a leading global pharmaceutical company, committed to increasing access to high-quality healthcare by developing, producing and marketing affordable generic drugs as well as innovative and specialty pharmaceuticals and active pharmaceutical ingredients.

Headquartered in Israel, Teva is the world's largest generic drug maker, with a global product portfolio of more than 1,250 molecules and a direct presence in approximately 60 countries. Teva's branded businesses focus on neurological, respiratory and women's health therapeutic areas as well as biologics. Teva's leading innovative product, Copaxone®, is the number one prescribed treatment for multiple sclerosis. Teva employs more than 40,000 people around the world and reached \$13.9 billion in net sales in 2009.

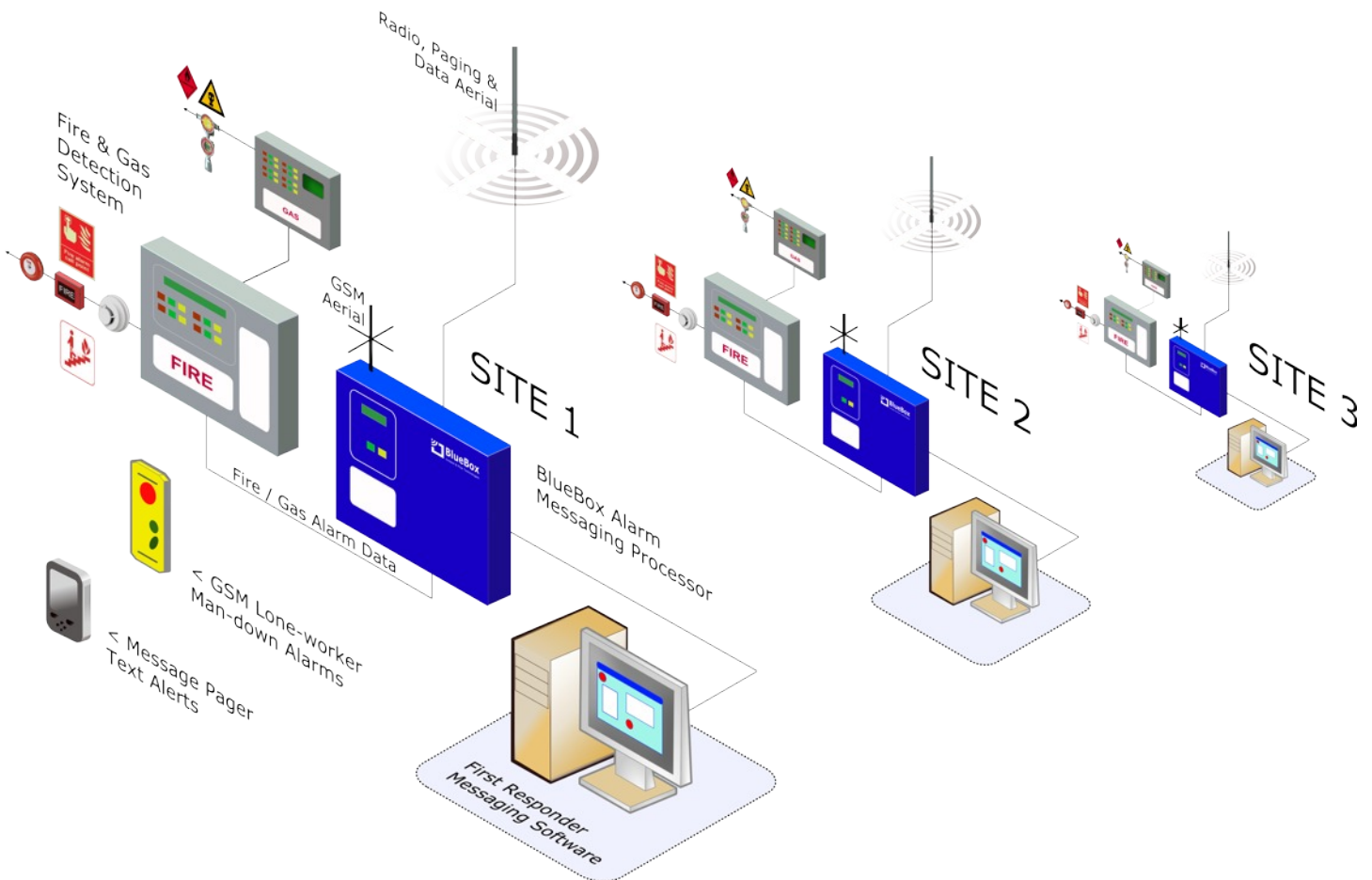


Figure 1 - In each building a BlueBox monitors the fire alarm system, a PC application interface and has predefined user buttons.

## Features & Operation

### “ “ Quotation from Paul Leacy, Health & Safety Specialist

- Monitoring of Minerva Fire Panel Networks for Alarms and Events, automatic messaging to message pagers and phones (via SMS).
- Detector-specific information is sent including area name, zone, room number and module ID.
- Shared paging frequency. A single frequency is shared between the BlueBox in each of the three buildings.
- PC messaging application in each building facilitates messages being typed and sent to the ERT members, updating them as an incident unfolds.
- PC messaging application is available for contacting an individual or sub-group during normal operations and notifying ERT members when fire system testing is planned or a false alarm has occurred.
- Lone worker interface. The GSM lone-worker device calls a dedicated emergency phone when activated. As a backup it also sends an SMS to BlueBox. BlueBox then retransmits the SMS to security pagers. E.G. "Inhalation 2 has activated a no-motion alarm".
- Security ascertain the worker's status before pressing the "Lone worker" button on BlueBox to notify the Emergency Response Team (ERT).
- Special fire detector monitoring. Detectors in a critical IT area are distinguished from other areas and more people are notified by SMS than usual.
- Each BlueBox has dedicated buttons for First Aid Emergency, Chemical Spill, Major Incident and Lone Worker.
- The digital message communication standard used is open, nonproprietary. A wide range of compatible receivers are available on the market.
- Sigteq also ensure that all radio systems supplied are properly licensed by the relevant authorities (ComReg in Ireland).

# Results & Benefits

Reduces emergency team response times to alarm events. Fire events are received by pagers seconds after they are detected by a Fire Panel.

Reduces the number of false evacuations. PC interfaces enable fast dissemination of updated information.

Modular implementation assures a future proofed solution as processes evolve - so does the technology.

Smart embedded design provides a secure, reliable gateway between modern fire detection infrastructure, lone worker protection devices and a mobile response team.

Designed and delivered by experts in wireless and embedded design, backed up with decades of experience delivering custom solutions to world leading organisations.

## About us

- Sigteq is a leading designer and producer of wireless-based safety and communication technology to automate incident response, improve efficiency and reduce risk to person, property and production.
- The engineering experience and skills of Sigteq coupled with the cooperation of Teva's staff ensured that this state of the art solution was delivered on-time, in-budget and met all of the client's specific requirements.



*GSM-s AtEx lone-worker (man-down) personal device.*



*15-way charging bank*



*X5 Digital Radio Pager*



*6-way pager charging bank*

# Contact Us

For further information or to discuss the possibilities for your process please contact:

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