New solutions

- for tracking and tracing explosives

Since 2008 and 2012, when the COMMISSION DIRECTIVES 2008/43/EC and 2012/4/EU where published, manufacturers, distributers, shippers and end users have to consider many additional requirements for the identification and traceability of explosives for civil uses.

Every civil explosive has to be marked with a worldwide unique ID-number and every company within the supply chain has to be able to provide information about the explosives position to the inspecting authority. The number has to be placed on every single explosive together with a plain text and a Data-Matrix-Code containing respective information.

The identification guide line applies to manufacturers, distributers, shippers and end users

Challenges and solution

The determinations of the EU-identification directive contain several challenges. Basically every company needs to have an appropriate software and hardware solution. The realization of the commission directive causes extra staffing as well as trainings for the employees. The extra data, which has to be transferred between all partners of the supply chain generates additional effort. Every company is liable to disclosure on request of the competent authority. Furthermore a number has to be registered for every single explosives item. This has to be managed by a system, which allows fast information to a request of an inspecting authority around-the-clock. Above this, the data has to be audit proof and collected for a period of 10 years. Every company that produces, ships, handles or uses explosives within the EU has to fulfill these requirements from 5th of April 2015 on.

A meaningful considered solution to meet the demands of the EU-identification directive is an electronic information system with data processing like "TTE" of the company TTE-Europe GmbH. The development of the TTE-systems was made in close collaboration with the German Blasting Association, national explosives organisations and EFEE. To provide even faster information to their customers and react to all new changes in the EU-identification directive regulation, TTE-Europe GmbH became a company member of the EFEE in 2013.

The TTE-solution is made for manufacturers, distributers, shippers as well as end users. Besides fulfilling the demands of the EU-identification directive and offering a customized solution for tracking and tracing of explosives, TTE provides extra benefits for the user. Since it can be used by all explosives manufacturers and suppliers, TTE provides the best possible compatibility. By the

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means of TTE-Trustcenter it defines a pan-European standard for exchanging data within the explosives supply chain.

The TTE-solutions can easily be connected to existent IT Systems of the customer. Furthermore all data are securely stored in certified European data centres or on local systems within the customer's enterprise network, which enable high data security and protection. The base system was developed by regarding the needs of the customers. It can always be extended to customized and individual products for all companies with different modules and applications. But TTE is not only a simple software product. The pan-European partner network of TTE-Europe GmbH supports their clients with continuous services and maintenance and thus provides a complete solution out of one hand.

3 base systems and an efficient information disclosure to authorities

TTE-Online is a cloud-based solution, which allows a comfortable and demand-orientated work. This spares any installation effort and facilitates the maintenance of the software. The TTE-Online solution facilitates a high data safety and security and ensures the data never to leave Europe. The usage of TTE-Online is possible from any PC with internet access. The user registers by entering a password into a data secure system. All required software as well as its data are available on the internet and are filled in the TTE-Web Archive where TTE guarantees the secure data storage for 10 years. Just on demand of the customer itself a one-time access can be granted for the responsible authority to do a single data query to the TTE-Web Archive.

TTE-Enterprise is a server based solution. The software has to be installed on an enterprise server and may be used from any PC within a local network or on mobile devices. Data storage and archiving can be done by the use of the TTE-Web Archive or on the local server system.

Because of the modular structure, TTE-Online and TTE-Enterprise fit perfectly to all customers' demands.

TTE-Small Business is a solution for small companies with no internet connection and can be installed on a simple laptop.

Highly efficient by further functionalities

A fast, secure and efficient data transfer is possible by using the TTE-Trustcenter. The system respects the packaging hierarchy and the specification by FEEM. Relevant processes are supported by simple solutions with easy and transparent handling. TTE-Trustcenter as a secure pan-European data exchange platform is the answer to the challenge of a standardized electronic communication across the complete explosives supply chain.

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By scanning incoming and outgoing goods TTE proofs and stores automatically the data.

Further benefits and strategic aspects

Data from the TTE-systems can also be used for the handling of an electronic explosives register in accordance with national legislation.

Also delivery notes, control samples, redemptions, return deliveries, consignments or assistance in inventory can be realized or handled with TTE.

The pan-European partner network enables the system to be available in all languages of the European Union. This allows a global service and support for all European TTE customers.

TTE-Europe GmbH presents information about Tracking in Tracing on many events all over the world.

The next opportunity to learn more about this topic and get information about TTE will be at the **7th World Conference on explosives & blasting in Moscow,** Russia (15th September 2013, Workshops on New Rules for Track and Trace of Explosives according to EU Directive 2008/43). All partners, TTE supporting and more information can be found on the website of TTE: www.tt-e.eu.

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