



Implementation of the European Directive on “Identification & traceability of explosives for civil uses” within Ireland.

ASHLEY HASLETT



Overview

- Introduction,
- The Directive,
- The technical difficulties,
- Kemek's experience of tracking explosives.

Introduction

The European Commission sought meetings with the Federation of Explosives

Manufacturers (FEEM) requesting that they;

- (i) Consider marking / tracking explosives,
- (ii) Implement greater control over ex-military explosives,
- (iii) Determine the extent of the risk arising,
- (iv) Improve the detectability of explosives & detonators.

Introduction

Purpose of legislation;

- To establish a harmonised system for the unique identification and traceability of packaged civil explosives in Europe,

Implementation date;

- 5th April 2012 (now likely to be 5 April 2013).

The Directive - Requirements

1. Unique readable identification for each explosives article,
2. A means of recording information throughout the supply chain and article life cycle,
3. Retention of information for 10 years,
4. Regular testing of data collection,
5. Providing authorities with information on retrieval,
6. Out of hours contact details.

The Directive

Requirement;

- To uniquely identify every explosives article upon manufacture, track and record its whereabouts at all times throughout the items life cycle and maintain these records for a period of 10 years after they have passed through your possession.

The Directive

Who has the obligation;

- Each company throughout the supply chain handling (ie, manufacturing, storing, transporting or using) the explosives items must have arrangements in place to meet the requirements.

The Directive

Code structure

- Country (2 alpha digits – ie UK, FR, AT),
- Production site within Country (3 numeric digits – ie 001),
- Unique number.

The Directive

Purpose of legislation;

- To establish a **harmonised** system for the unique identification and traceability of packaged civil explosives in Europe.

The technical requirement

FEEM European Explosives Code structure

- Introduction of Global bar-coding Standards with the adoption and use of Application Identifiers.

European Directive on Identification & Traceability of Explosives

European Explosives Code Structure

Field	Digits	Format	Application Identifier	AI Description	Length	Notes
Country & Production Site No.	5	Alpha-Numeric	(90)	Mutually agreed between trading partners	Variable but used as a fixed number to 5 digits	Mandatory to comply with Directive eg FR002 – France, 2 nd site
Unique Item No. OR Logistical Unit No.	30	Alpha-Numeric	(250)	Secondary Serial No.	Variable up to 30 characters	Mandatory to comply with Directive
Production Date	6	Numeric	(11)	Product Date (YYMMDD)	Fixed	Optional
Product Code	30	Alpha- Numeric	(240)	Additional Product Identification Assigned by Manufacturer	Variable up to 30 characters	Optional
Batch Number	20	Alpha-Numeric	(10)	Batch or lot number	Variable length	Optional
Quantity	8	Numeric	(37)	Count of items contained in a logistic unit	Variable Length	Optional
Net Explosive Quantity	6	Numeric	(310n)	Product net weight in kgs	Fixed	Optional
Unit of Measure	6	Numeric	(311n-316n)	Specified units of measure eg length / volume etc.	Fixed	Optional
Gross weight	6	Numeric	(330n)	Gross weight - Kgs	Fixed	Optional
Internal Use	30	Alpha-Numeric	(91) – (99)	Company Internal Information	Variable length	Optional



DANGER-EXPLOSIVE.
REFER TO IIE SAFETY LEAFLETS.

FA4008

14.12.10

IRISH INDUSTRIAL EXPLOSIVES LTD
UN4G/Y28/S10/GB/2397

E1 X 85MM

10 X 85mm 2.5Kg



IE0011012144008B00126

KEMEX



DANGEROUS
GOODS
TRACKING



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Kemek's experience in tracking explosives

Barcoded explosives cases since 1994 and tracked to end User.

Each cartridge within a case had label bearing barcode of same number as case

System confirmed the required number of barcode labels for each case and then compared case number to labels in case.

This is batch processing – common use of barcode systems.



Kemek's experience in tracking explosives

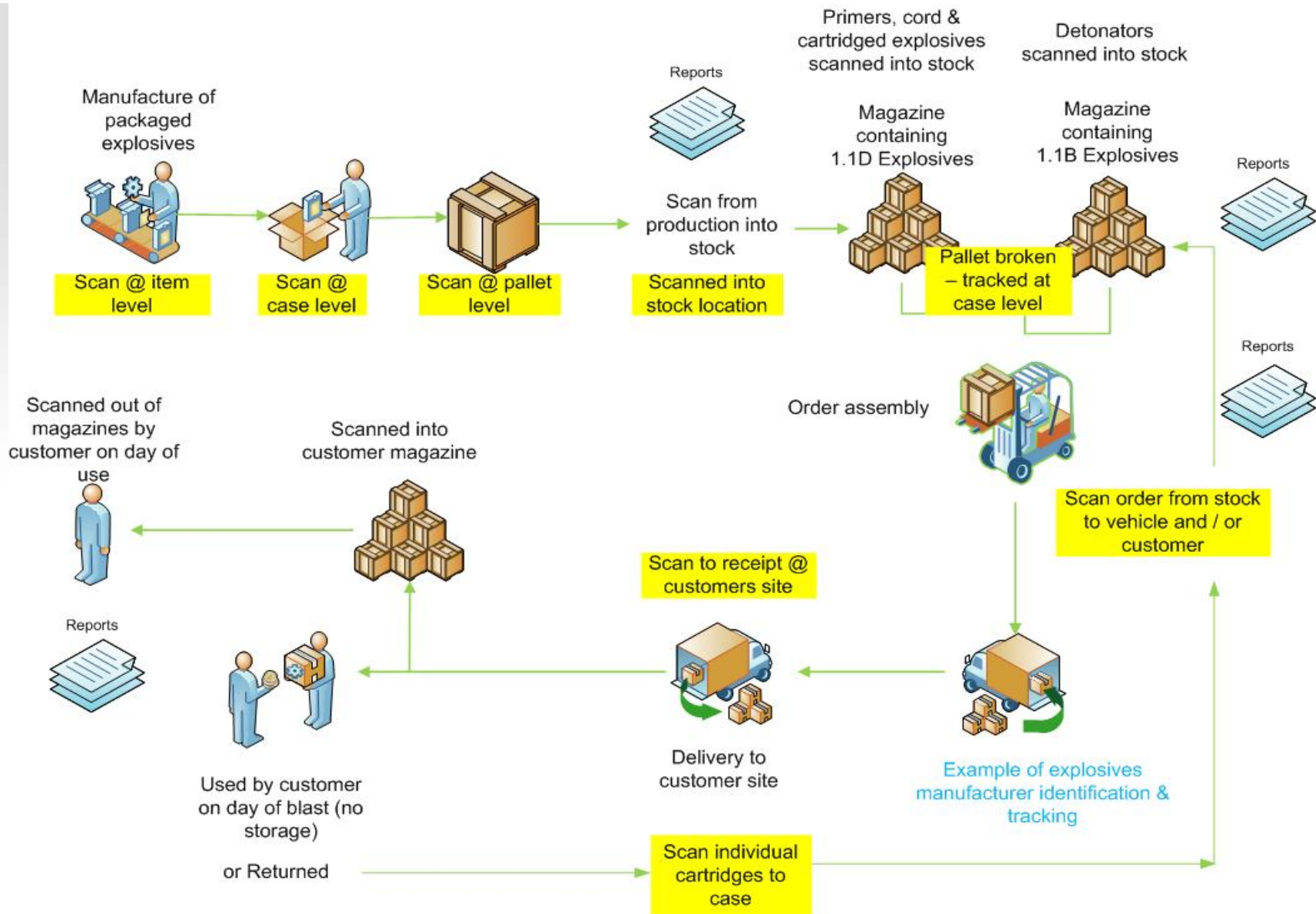
Directive requires “item level” tracking – very different

Every item labelled with unique number (ie never to be used again)

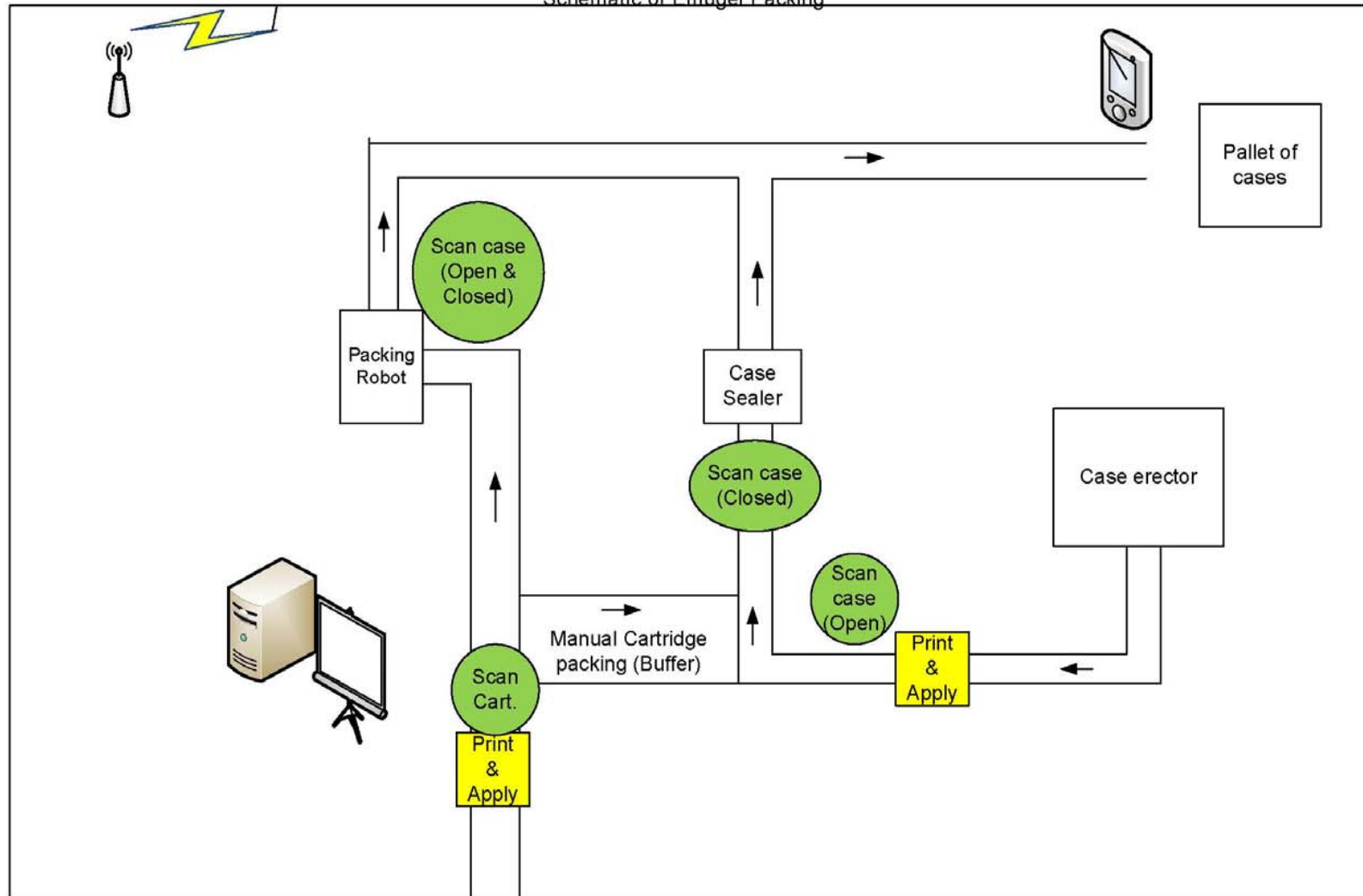
Each unique number is associated with a label on a bag or case

A number of different bags or cases may then be placed in another uniquely numbered case

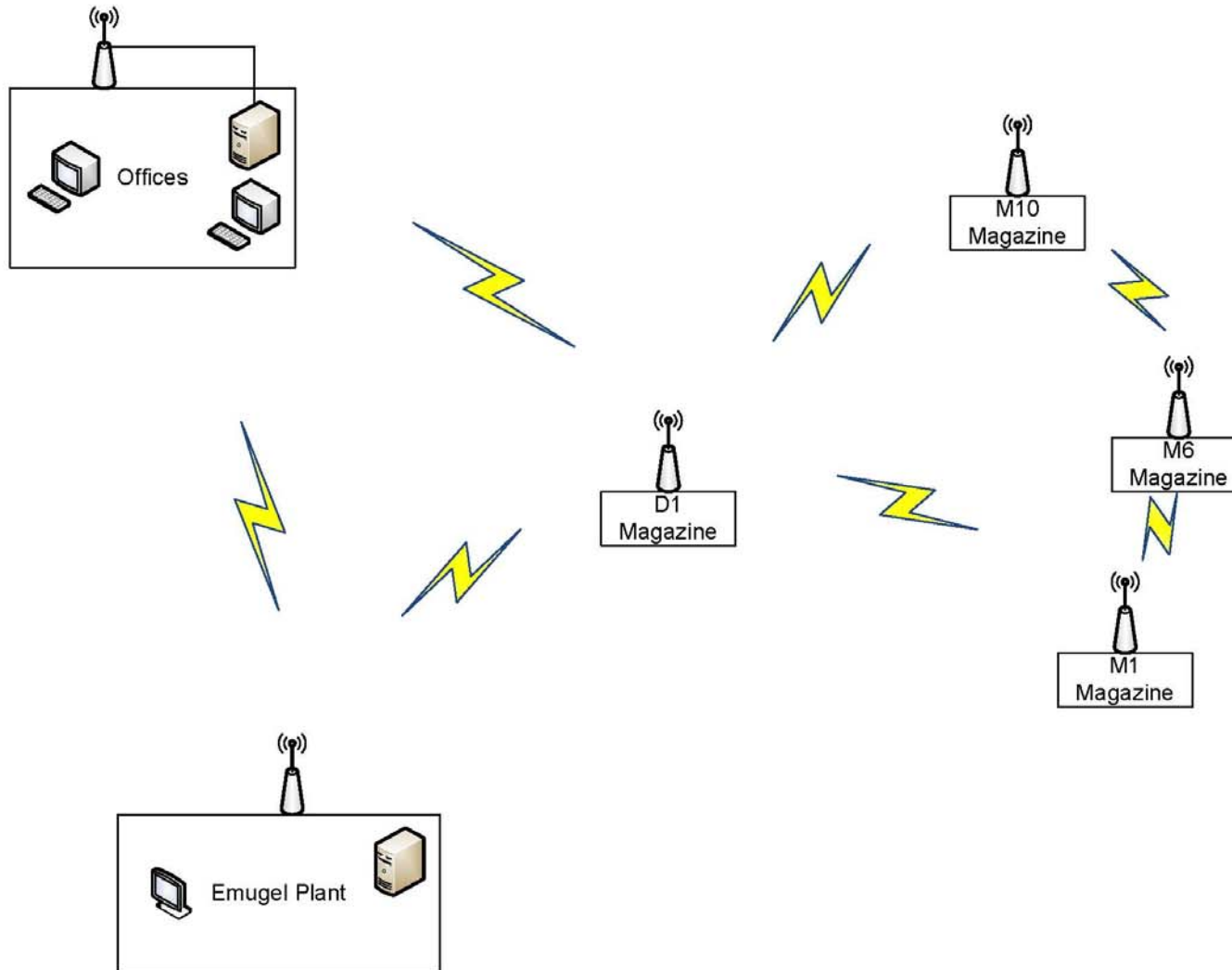
The location of that outer case (with all of the items in it) must then be tracked along the supply chain.

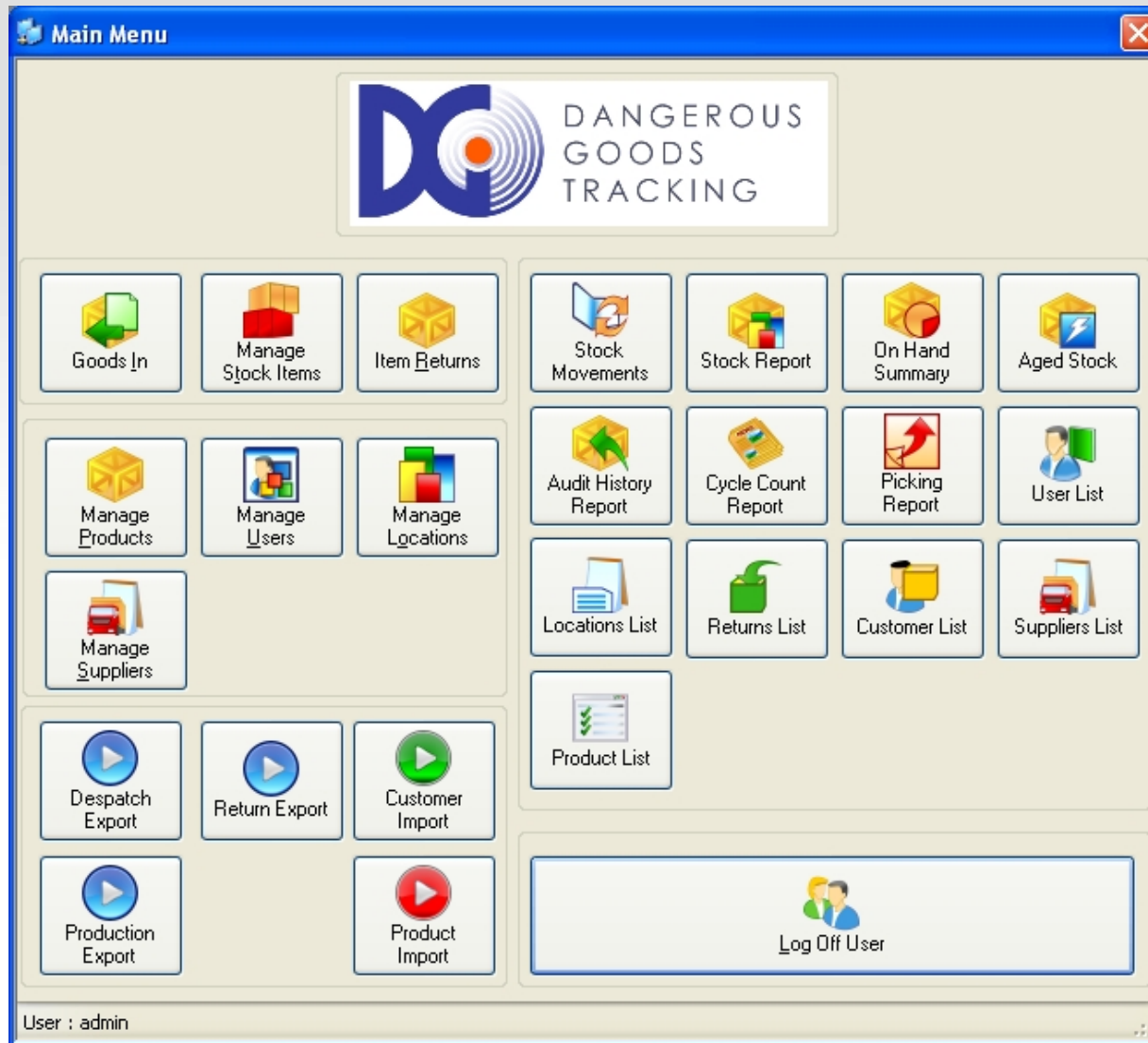


Schematic of Emugel Packing



Schematic of Emugel Packing







KEMEX



Summary

- How and why the Directive was created,
- Summary of Directive requirements,
- Technical issues,
- Kemek's experience of tracking explosives.

Thank you for your attention

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