



Security engineering

IMPACT

International Medical Products Anti-Counterfeiting
Taskforce

Experience out of automotive industry related to serializing
of products

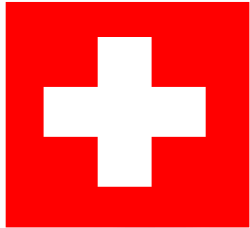
Vesdo

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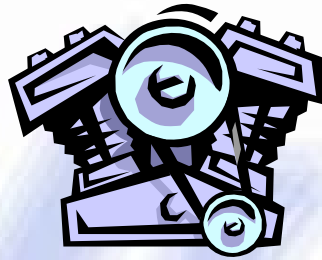
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- ...is a joint-stock company, having its roots in the Swiss security tradition and security industry
- ...active in the brand protection industry since year 2000
- ...provides consulting services for industry associations, governmental agencies and brand owners in creating security and coding system architectures
- ...delivers engineering services by implementing security systems into packaging lines and IT-infrastructures
- ...doesn't sell own hard- & software products to be able to act as trusted partner of its clients in system evaluations

Automotive industry: Comprehensive infrastructure

Parts manufacturers
Association: EAF/ CLEPA



Vehicle manufacturers



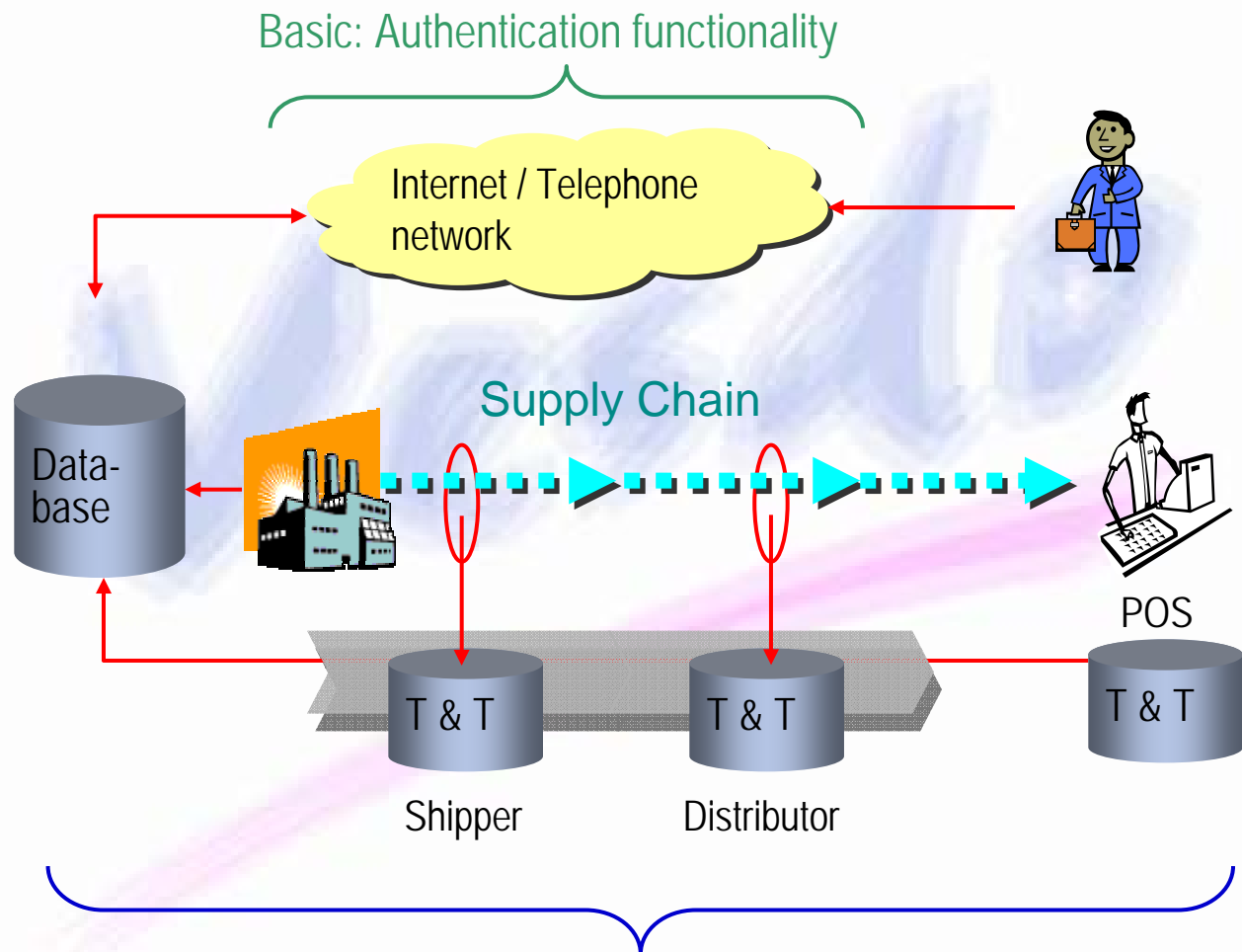
22 Top European companies
Participated and invested



Project executed:

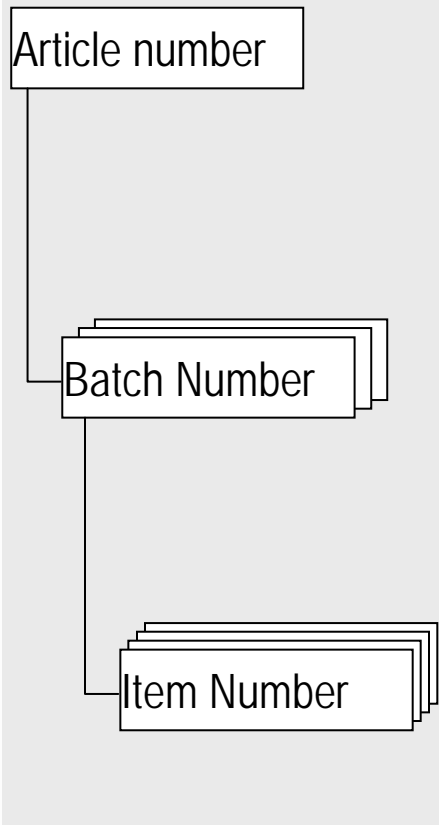
- *Vesdo Ltd.*
- *TecCom GmbH*

Functionality of the logical security infrastructure



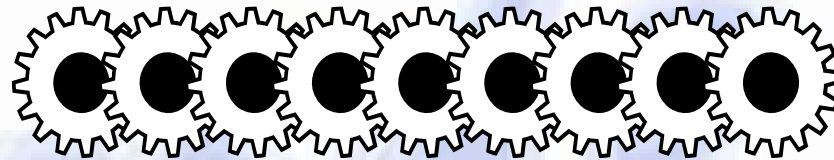
Itemization of product data

Data hierarchy

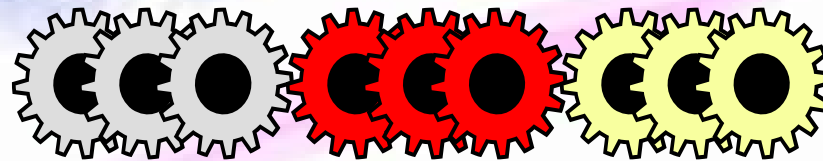


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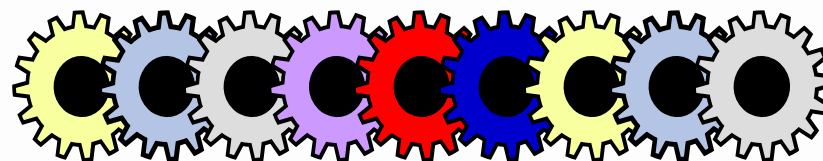
Anonymous mass of items



Segmentation (for recall)



Known universe (for security)



Coding



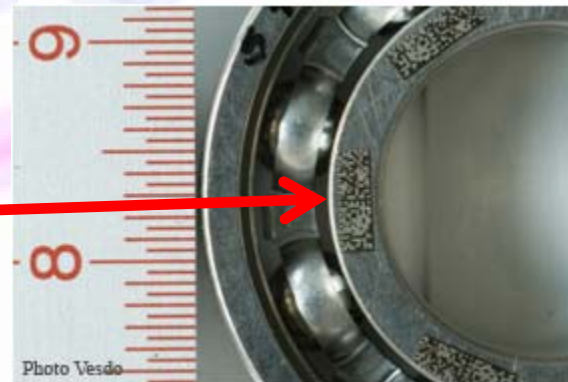
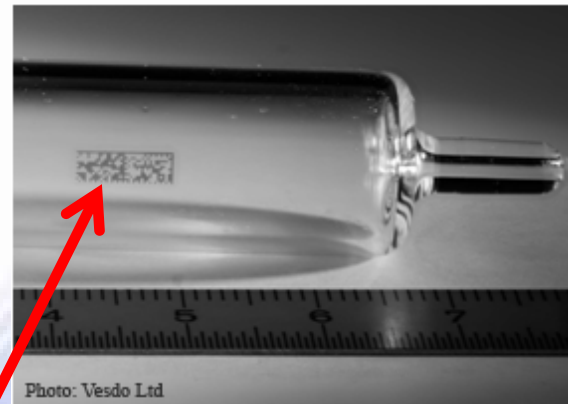
EAN 13



Data Matrix

RFID versus Barcode

	RFID	Bar-code
Technical maturity	-	+
Price	-	+
Standards	-	+
Item tagging	-	+



2D Data Matrix chosen for being reliable, versatile and cost effective

EFPIA and CLEPA barcode practically identical



CLEPA Code



EAN 128 structure

(01)0761234567890

(21)123456789

*Company/
product
identifier*

Security Nr.

GTIN = 0 plus EAN 13

EFPIA Code

(10)557022A(17)051022

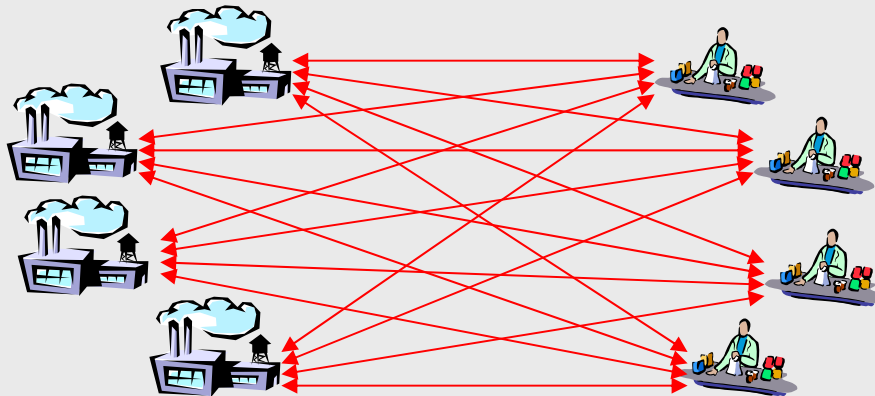
Lot Nr.

Exp. Date

EAN 13

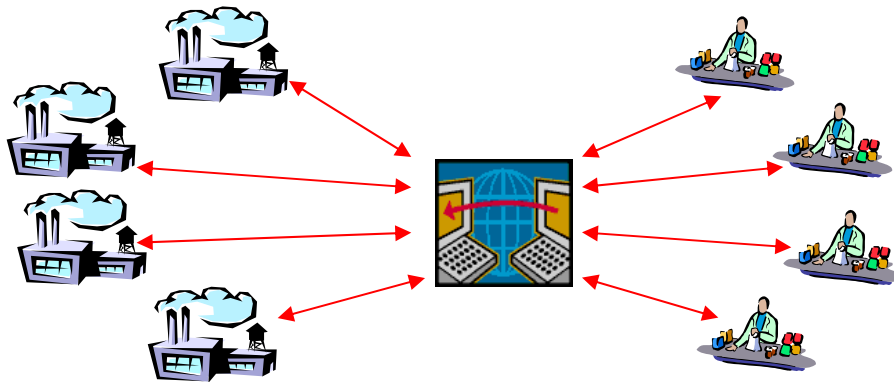


Architecture of an authentication system



If each manufacturer is operating his own track and trace system:

Business processes at the POS will be very complicated.

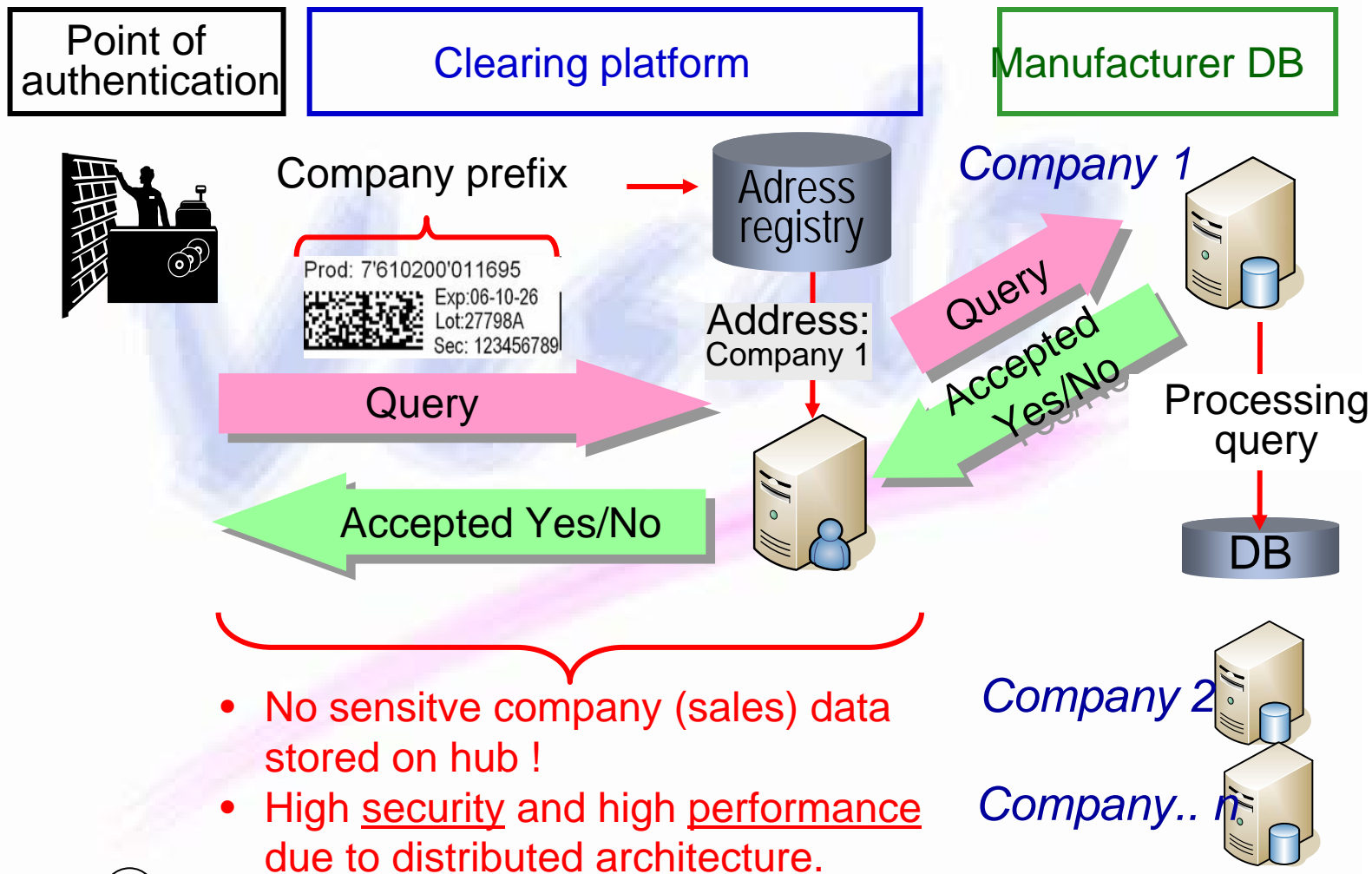


Using a clearing platform as unique certification authority in an given industry:

Business processes at the POS will be simple and easy.

The only function of the hubs is routing the queries

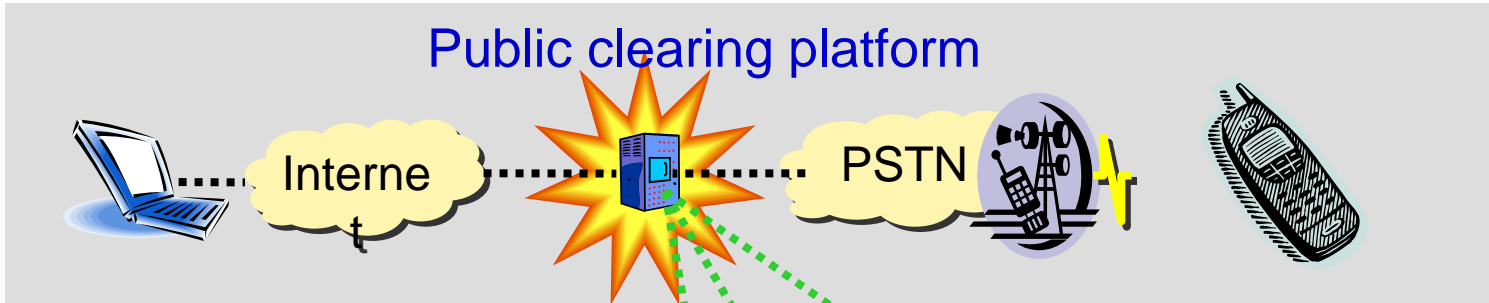
Vesdo



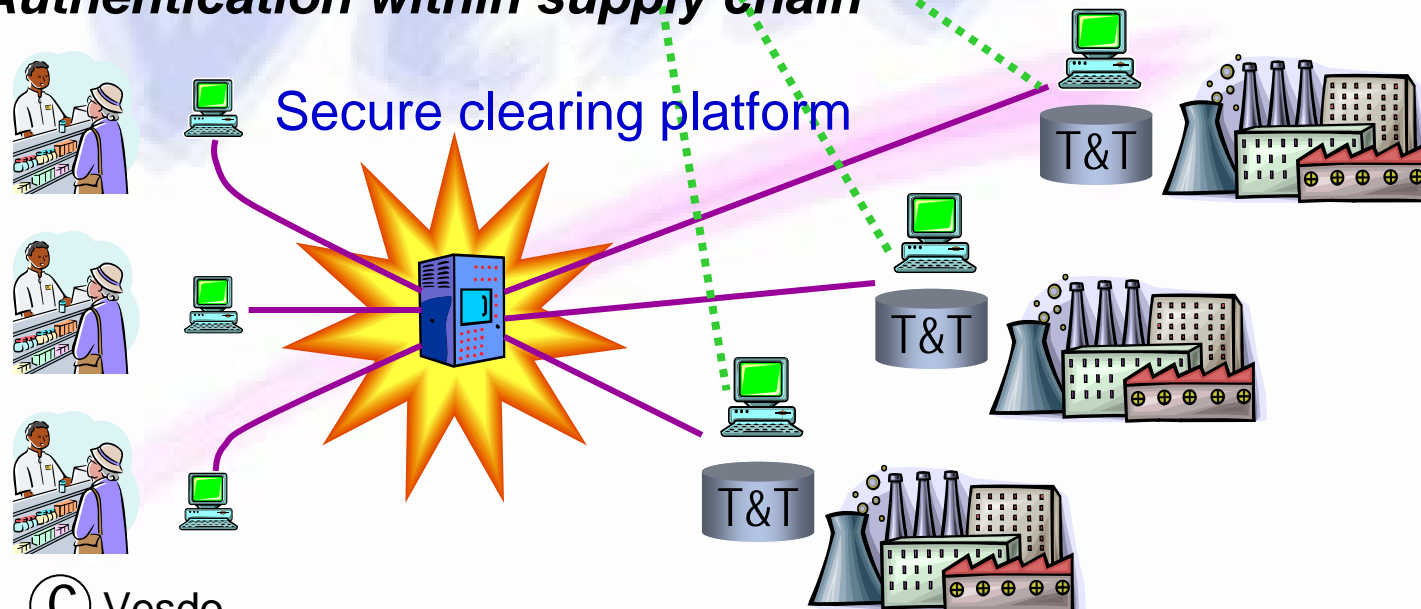
Architecture of global IT- network



Public authentication



Authentication within supply chain



Authentication by cell phone



The CLEPA clearing center allows for authentication by cell phone



Thank you for your attention

Additional information please mail at

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or see our web site www.vesdo.com