

RFID in EUROPE

INFORMATION CONCERNING RFID IN EUROPE SEPTEMBER 2016

RFID
in EUROPE

SEPTEMBER 2016

LEARN HOW TO INCREASE
VOLUME OF BUSINESS BY IM-
PLYING RFID TECHNOLOGY!



NEW METHOD FOR TRANSFERRING SECURE INFORMATION – CAN BE USED IN ALL KINDS OF AREAS



CONTENTS

1 NEW METHOD FOR
TRANSFERRING SECURE
INFORMATION – CAN BE USED
IN ALL KINDS OF AREAS

4 PRINTED ELECTRONICS AND
THE FUTURE

6 IT'S CLEAR "TAP AND GO"
IS THE WAY TO GO

9 SUSTAINABLE ENGINEERING

13 "WHERE IOT HELP THE
PATIENT AND THE DOCTOR TO
FEEL FREE!"

16 PATIENT SAFETY AND THE
INTERNET OF THINGS (IOT)

18 SITE TRACK - BURIED UTILITY
ASSET MANAGEMENT
COMMUNITY, CONTRACTOR,
AND UTILITY BENEFITS

Elise Revell, Swedish IT innovator founded the company Kelisec 2010. With the Kelisec method, Elise has invented a new revolutionary way to send encrypted communication without any shared keys. The communication sequence mutates every millisecond makes it secure against all known attacks.

The method has been scientifically proven in two different papers. The conferences Fares (Frontiers in Availability, Reliability and Security) and ASQT (Availability Security Quality Testing and Innovation) has reviewed and approved the scientific publications. The committee includes Harvard University and Royal Holloway among others.

The method is patented in all major industrialized countries, for example: United States, Canada, The EU, Sweden, South

Korea, South Africa, China, Philippines, New Zealand, Australia. The patent covers 80% of the world population.

The method can be used in all kinds of areas when there's need for secure communication between parties. Within finance and banking of course, no one wants their bank to be breached. Or in finance areas as mobile payment with NFC. Another use case is communication from airplanes or oil rigs.

BROADCAST PERFECT FOR BLOCK CHAIN

There are patents both for secure node-to-node communication but also for node-to-multinode communication. The node-to-multinode solution is called Broadcast and is perfect for securing communication within the block chain technology.



**EXCLUSIVE AGENT AGREEMENT
SIGNED IN QATAR**



Kelisec just signed an exclusive Agent Agreement with Al MIRQAB Projects

GROUP as a step to expand internationally in the Gulf countries and Africa.



Shk. Jabor Hamad Jassim Al Thani and Elise Revell



ELISE REVELL

Elise Revell, IT innovator and IT security expert and founder of Kelisec. Here with original patent for China and USA. In 2013 Elise received Special Recognition award from EUWIIN, (European Union Women Inventors and Innovators Network).

Verifone[®]

PRINTED ELECTRONICS AND THE FUTURE

Beneli AB is one of the few companies in the world combining adhesive, print, 3D and RFID technology. For more than 25 years they've offered high quality, technologically advanced labels and whatever is needed to apply those labels onto a surface. Basically – we print it and make it stick.

The portfolio is extensive. Graphical labels, technical labels, medical products, security products, 3D products, RFID and NFC products and functional self-adhesive components are just a few examples of what Beneli does on a daily basis. The company prides itself with top notch machinery and highly skilled personnel. If you combine all of those together it will result in a world class team building world class solutions.

The customers come from a wide range of business segments although the main focus is on the medical, logistics, chemical and beverage industries. So it's very likely that you've held a Beneli label in your hand while pouring something cold into a glass this summer.

We've met up with Günther Dieroff, Sales Manager at Beneli, to see what lies ahead for the company.



Günther Dieroff, Sales Manager at Beneli, +46 – 702 10 75 75, Gunther.dieroff@beneli.se

- Beneli seems like an exciting place to work at. What do you work with right now?

I agree, I have a great time at work. Right now we are working with a major transition from UHF RFID to NFC at a customer in Europe that buys significant volumes of RFID labels. We are also working with body patches for heart monitoring patients, within the medical field for customers both in the USA, Europe and Asia.

- Do you have more examples of what you've done in the past or can do in the future?

Within sensors for temperature and moisture there is a growing demand. We also see an increasing demand for security products, both brand security and product security, where we today deliver 3D labels and labels with VOID function combined with RFID or NFC to our customers.





- Internet of Thing, IoT, seems hot right now. What is Beneli's role within the IoT segment?

We are the player in this market, that can build the sensors, either with RFID technology or with printed electronics, and also add a nice graphical design to the sensor if needed.

- Printed electronics sounds like the future. Could you describe it?

We can print with inductive colors, like for example silver and build circuits in different layers with different materials, and finally put a display on the top and adhesive in the bottom.

- Can you build custom sensors?

Yes, absolutely, our engineering team helps our customers to develop their design and make them ready for serial mass production.

- You consider to have World Class Solutions. In what way is Beneli different?

Since we produce both performance labels and graphical labels with very high quality and deliver them all over the world, we claim that we provide World Class Self Adhesive Solutions. It is actually our business idea. Within the RFID field and within medical patches we have a wide spread of our customer base around the globe, with companies like Hilti and Philips using the products we produce.

- Do you have customers in e-health?

Absolutely, we have helped several customers to develop and produce body patches with adhesives in medical grades both in silicone and acrylics. We print the circuits with inductive silver and add hydrogel for the signal sensing in order to monitor the

status of a patient's heart with help of a Bluetooth device.

- Finally, how do you think the adhesive and print market will evolve moving forward?

I hope, and can already see that RFID is growing and is more and more established within logistics and also medical application areas. On top of this the IOT with the sensors is an emerging market.

It is the combination of labels, function and technology that is the future. The way for us to be successful is to have strong and strategic partners.

www.beneli.se

www.linkedin.com/company/beneli-ab/

info@beneli.se

BENELI AB, Porfyrgatan 5, SE-254 68 Helsingborg, Sweden



IT'S CLEAR "TAP AND GO" IS THE WAY TO GO



Contactless payment is shifting retailer and consumer behaviour across Europe. 'Tap and go' introduces a whole new psychology, as it removes a number of physical steps when we pay in more traditional ways. The "pain of paying," as behavioural economist Dan Ariely explains, is a very conscious moment in the physical payment process that can keep our spending levels in check.

With the advent of card payments, the feeling of exchanging 'real' money has started to fade away. Contactless elimi-

nated the feeling of real money in our hands and the physical sense of financial management. And while CHIP and PIN payments still involve a moment of concentration – after all, one has to input a PIN into the terminal to validate a transaction – contactless makes spending more abstract, increasing the risk of making us lose control over how much we actually spend.

Yet, according to a Verifone survey, consumers are embracing contactless – 57% of UK consumers are either regular or occasional users of contactless payment systems, and more are planning

to try it out in near future. This appetite is fueled by the retailers and consumers' ease of use when interacting with the technology and its increasing efficiency and speed to paying.

It should be no surprise that convenience and speed of transaction play an important role when it comes to payment adoption and acceptance of new payment behaviour. A quick and effective transaction can be a major source of satisfaction for consumers. Speed in particular is a key factor when it comes to payments – a recent YouGov survey showed that 59% of people would



delay purchase because of the size of the payment queue. With an average contactless transaction taking just a few seconds and no need to enter digits, the benefit for consumers becomes very clear.

When the technology first emerged it was deemed insecure by some industry commentators, who envisaged contactless cards becoming targets for thieves or, worse, making unintended payments by accidentally interacting with NFC-enabled devices. Yet, and security doesn't seem to be a major consumer concern when it comes to contactless. Contactless remains one of the most secure methods of payment and fraud levels are marginal (0.007% of contactless card spending in 2014^[1]).

Contactless is also great news for retailers and brings with it multiple benefits. It helps generate more sales and greater footfall, as it eliminates the need to handle cash for both the merchant and the customer. It also secures what could have been a missed sale, in the case of a customer not having cash or not wanting to make a trip to the ATM. With the contactless spend limit in the UK rising to £30 and the average debit and credit card transaction in a supermarket worth just over £25, according to the UK Cards Association, contactless is well-placed for further growth.

All of these factors make contactless difficult to resist and it's quickly becoming a normal behaviour. One can't argue with its efficiency and security. And while payment will always

remain an aversive event in the mind of consumers – after all it means giving up money which, in turn, relinquishes opportunities for other purchases – the more convenient technology can make it for us to pay, the happier we will be to use it.

It's clear 'tap and go' is the way to go.

RESOURCES:

Infographic:

The Path to Payments in the UK

White paper:

Payments and Human Behaviour

[1] According to UK Cards Association data from 2014

Contactless payment is shifting retailer and consumer behaviour across Europe. 'Tap and go' introduces a whole new psychology, as it removes a number of physical steps when we pay in more traditional ways.

Made in
Germany



Leading in applied RFID & barcode technology!

Logopak – Your partner in
Print & Apply labelling



Visit us at
RFID Tomorrow, Düsseldorf 19 - 20 Sept.
Fachpack, Nürnberg, 27 - 29 Sept.
H4 / 4-327 & H1 / 1-244

www.Logopak.com



SUSTAINABLE ENGINEERING

Interest in “sustainability” and related issues continues to grow, nationally as well as internationally. A sustainable economy is one that can meet the needs of the present, without compromising the ability of future generations to meet their own needs.

More sustainable approaches for meeting our needs require that our solutions perform well with respect to each of the three dimensions of sustainability (economic, social, and environmental).

(the Kate Gleason School of Engineering)

The above statement has become increasingly important in the last decade and it is not just a buzzword, but has even become an important competitive instrument. Customers have come to not only judge a company from the performance and characteristics of its products, but also how well it meets the requirements of Sustainable Engineering.

DOES THIS MEAN THAT WE WERE TOTALLY NEGLECTING OUR ENVIRONMENT IN THE PAST YEARS?

By no means, but we were maybe more devoted to the function, rather than grasping the total picture. When selecting a specific solution, did we think about how long the hardware would last, would there be spares around to keep the system running 10-15 years from the date of installation. Maybe an expensive software re-writing would become necessary if the hardware had to be changed. I firmly believe that customers way back in the nineties were very con-

cerned about such questions and they carried out extensive examinations before committing to invest in a project. Regardless of how meticulous you are in your market research, you can't foresee what plans other companies have and how that can come to impact on your own company.

In the following, I will try to show two examples of companies (A and B) that almost had to substitute its installed RFID-hardware, due to facts beyond their control. Baumer Ident GmbH was the company that sold the initial equipment. Later, Baumer Ident was sold to an Austrian company, who in turn, after another few years decided to close the LF-line of products. Since I had been manager for the LF-line with Baumer Ident, I was now in the position to close the void and together with old colleagues we started to manufacture equivalent products, that could substitute the old, outdated equipment on a one-to-one basis, with no program changes needed.

ARDAGH DONGEN

My first example comes from the company Ardagh in Dongen, Holland. Even Ardagh has a mixed history. The Swedish company PLM, was a manufacturer of steel cans, but later also packing material of plastics and glass. In 1999 another packing company Rexam, specializing in Aluminium cans but also glass products, acquired PLM. In 2007 the glass division was sold to Ardagh, which goes to show how little you know about the future.

The Ardagh Group has a truly global presence. It operates 110 glass and metal manufacturing facilities in 22 countries, employ over 23,000 people and have global sales exceeding €7.9 bn.

Around the end of the nineties the company was still PLM and Baumer Ident GmbH where I worked, was contacted regarding a project to equip 15 forklift trucks with an identification system, to improve its warehouse logistics.



The company manufactures glass bottles for the brewery industry. PLM had a strategic position in the middle between two of its main customers, CocaCola and Heineken. The warehouse operates 24/7/365 and FI-FO was a demand.

The bottles are stocked and transported on Euro Pallets and each pallet is identified through the use of barcodes. The trucks have double forks so they can handle two pallets at a time.

Our task was to find a solution that would guarantee shortest possible trips for the forklift trucks, yet having the FI-FO in mind.



Camera on PanTilt unit



Two fix-mounted cameras, one for each fork pair



Antenna and mounting plate



The old RFID reader



Trepanning drill + machine



Ring tag being placed



Final Epoxy casting

THE SOLUTION

We opted for a combined solution, barcode readers and an RFID-system consisting of a reader, an antenna and floor mounted tags giving the exact position for the pallets.

The truck positioning system was well proven, as it had been installed in many other, similar projects in Germany and France. The CCD cameras also had a vast track record, mainly from installations in paper mills around the

world. The difference in the Ardagh project, was that the cameras didn't have to be mounted on a pivoting device (PanTilt) as in the paper mills, but could be mounted in a fixed position to read the pallet barcodes.

The RFID-system consisted of a reader, an antenna and floor mounted tags. The antenna was mounted under the truck and had the dimensions 400x400mm to give the truck driver enough positioning freedom, when reading the tags.

We had special tags manufactured, that could easily be mounted into the floor. It was a ring formed tag Ø100/Ø70x1,5mm and we quickly named it "the onion tag". We also designed and

had made a special trepanning drill, to facilitate the drilling of the shallow holes (<10mm).

The project has been very successful and has been up and running since the end of the nineties. Like with both men and machines, the years catch up on us. Now it has come to the point when the equipment needs to be upgraded and/or substituted. Luckily enough we now were able to offer our compatible reader IDeal125, so no changes to the truck computer program need to be done.

In effect, this extends the project solution life cycle substantially, even if it means an exchange to more modern hardware.



New RFID reader IDeal125



THE UPGRADING

First, the old Baumer RFID readers are substituted for the IDeal125 readers. Then the old analogue cameras are substituted for the modern digital versions.

The new version has more setup possibilities for both communication and barcode reading, facilitating the setup of the system. We can also feed the RFID data directly to and through the cameras, omitting the special connection box we needed to have in the old

system. It simplifies installation and maintenance.

What conclusions can be drawn from this project? We already mentioned in the beginning, that it is impossible to foresee the plans of other companies, big or small. There are so many different parameters influencing the decisions made by managers and company boards. Even though PLM (now Ardagh) made an in-depth study prior to taking the decision to place the project order with Baumer Ident GmbH, they could hardly foresee that that company would be sold 5-6 years later. Nor was it impossible to imagine that the buyer of Baumer Ident would cancel the product line another 5-6 years after that.

What remains is that we can observe that the project design and solution gave the required result and has given the customer reliable performance during more than 15 years. After the upgrading, we can anticipate the system to be running and providing reliable service for another 15-20 years.

PLIVA CROATIA

My next example is the company Pliva in Croatia. With 90 years of successful pharmaceutical experience, PLIVA is today a member of the Teva Group, one of the largest pharmaceutical companies in the world. PLIVA's production portfolio includes a high number of finished dosage forms covering almost all therapeutic groups and active pharmaceutical ingredients. Focused on development of generic and niche products, PLIVA has the broadest portfolio of generic medicines in Central and Eastern Europe. Its major markets are Croatia, the USA and Russia.

PLIVA is one of the manufacturers complying with the highest global quality standards required for international markets.



PROJECT SCOPE

Pliva needed to invest in some kind of equipment helping to meet the very high quality standards set up by the company. Again, like in the Ardagh case, the coise of equipment fell on Baumer Ident GmbH.

All different drug ingredients are handled in stainless steel containers. These containers are equipped with RFID tags so that they can be identified and traced through production.

Unlike the Ardagh plant, there are no readers installed on the trucks. In

stead, fixed readers and antennas, are installed on strategic places.

History repeats itself and so Pliva found themselves in the same position as Ardagh. They were very happy when they found that there was a solution available saving them from having to install some other hardware, necessitating changes to the computer software. Now the old readers are substituted for the new IDeal125 readers and antennas without any changes at all to the software.



Container with RFID tag



RFID reader and antenna

**For further information:**

Technical:

Contact Bob Forslund

AMC HB

Phone: +46-70-2891142

Mail: bobsan@bahnhof.se

Commercial:

Contact Gert Lundh

Ident System AB

Phone: +46 702 322 592

Mail: gert.lundh@identsystem.com

“WHERE IOT HELP THE PATIENT AND THE DOCTOR TO FEEL FREE”!

WE at the Zponge automation company, located in Helsingborg Sweden (see: zponge.com) is using RFID and IoT in our products and production areas.

The usage of IoT has two levels – on level one we are using the industrial 4.0 metrology to control and drive our development in the next production area! The other level is the embedded RFID chip that goes in to our sponges and pads to prevent lost of material in the body!

We have a small imbedded transponder and a special antenna to receive positioning information of the sponges used in the surgery area.

Our machine concept uses old tested technology combined with the latest IT technology, motion control and Industry 4.0 network.

Tetra Pak was one of the first companies to introduce the so-called COMBI concept to industry. This is a competitive alternative to traditional lines. Manufacturing of the packaging, filling and sealing in a single integrated system. COMBI+ adds value to the entire production and packaging chain. By eliminating transportation folding, empty handling materials, accumulation and storage, optimizes the COMBI concept with a smaller footprint.

Our version of so-called COMBI process: Prefolding -insertion-closure-final folding besides an effective motion control. Thanks to this, in a succession of four operations the machine is continuously producing sponge, round or flat, with synchronously inlaid transponder in each sponge. RFID technology improves patient safety. Furthermore, the transponder will be totally enclosed in



The hybrid manufacturing requires only a software option to change from flat compress to a round sponge.

the Intended location of each type of sponge.

After the final folding the machine delivers a sponge fully prepared for forceps of the surgeon.

As described, in our machine concept IT technology will be adapted and making it work together with automation. The concept is based on Internet of Things and efficient handling of large amounts of data.

Besides an effective motion control Industry 4.0 enables creating a logging system of operational data from the production plant. The system collects and compiles data on downtime, stop times, speed, energy consumption etc. This will improve production efficiency and ensure quality.

The technology is resource efficient. This means that new features will replace the manual counting of surgical items. Simultaneously is achieved a more efficient cost control, improved patient safety and other beneficial effects concerning the management of the surgical objects.

WE SET A NEW STANDARD!

Patient safety - Smooth workflow - Automated statistics - Upstream traceability - Cost neutral

FULLY AUTOMATED CONVERTING MACHINERY SYSTEM

Built for different absorbent shapes on identical modular platform.

For further information please contact:

*Zponge Automation AB
Miklagårgatan 38
S 235 62 Helsingborg
Östen Forsman
+46 707828781
Lucas Åhlström
+46(0)70 1821500
lh1strm5@gmail.com*

WINNER OF RFID NORDIC STATEMENT OF EXCELLENCE 2015

SITE TRACK - BURIED UTILITY ASSET MANAGEMENT

COMMUNITY, CONTRACTOR, AND UTILITY BENEFITS

SITE-TRACK FEATURES:

- For associating new installation or repairs to utilities and recording all utilities in the immediate area of the installation.
- A method of relocating previously recorded information rapidly without the need for advanced skills or technologies such as GPS - invaluable for night-time or emergency works
- Pinpoint location of critical assets such as valves, joints, utility service connections on water and gas networks or other individual utility assets.
- Real time updates of records, ensuring immediate availability of critical utility network information sent to database or to clients existing database
- Fewer abortive or delayed projects caused by incorrectly issued permits, dry digs or digging in the wrong place due to incorrect mapping of original utility assets
- Enhanced design achieved through increased awareness of buried asset information, enabling pre-selection of the most appropriate and cost effective methodology
- Office and site based monitoring.
- Traceability of materials, asset and plant and work carried out i.e. Date, time and activity undertaken, Live update
- Compliance with current UK Legislation such as NRSWA, TMA & HSG47
- Individual fields of required records can be easily incorporated into the software for different country requirement and compliance as well as language of choice
- Greatly improved site health and safety.
- Partnered with 3M providing the very best in accuracy, quality and service.

THE CLIENT

Southend Airport is run by the Eddie Stobart Group who have transformed the whole airport increasing both the size and use year on year. Used for both passengers and freight development is under way to increase the size therefore the amount of passengers and freight passing through.

Marc Taylor heads up the engineering and projects at the airport will employ the use of our Site Track solution when laying new utility services so that they can accurately associate, record and be able to locate the underground utilities assets. The ability to correctly identify the shut off valves and isolators should they need to in the event of an occurrence, fault or failure will significantly reduce both the time to find time to repair services

keeping the airport and runway stoppages down to a minimum

Willmott Dixon is a major construction company here in the UK.

They are currently using Site Track to associate and record the underground utilities being installed in a new build hospital.

Douglas Guildford is the Health and Safety Manager who initiated the use of Site Track acknowledging that it will significantly improve their records and remove any threat of hitting a service when building. This is also seen as a benefit to the eventual owner/client of the new build in having accurate, immediately available records of what is under the ground should there be a need to locate or if they extend or build other buildings on site

SITE-TRACK OVERVIEW

Site-Track is an integrated solution for the management of underground assets. It consists of RFID Markers linked to a mobile application and spatial database, to enable the capture details of associated assets, which are then viewable through a branded client web portal. The objective of the Site-Track application is to create accurate records of utility installations, and then upload the records into the database. Registered users can then access the records via their web portal, which acts as a reference tool for all stakeholders, and allows future works to be expertly planned.





Site-Track Marker Deployment



SITE-TRACK FEATURES AND BENEFITS

- A method of relocating previously recorded information rapidly without the need for advanced skills or technologies such as GPS - invaluable for night-time or emergency works
- Pinpoint location of critical assets such as valves, joints, utility service connections on water and gas networks or other individual utility assets.
- Real time access to records, ensuring immediate availability of critical utility network information
- Fewer abortive or delayed projects caused by incorrectly issued permits, dry digs or digging in the wrong place
- due to incorrect mapping of original utility assets
- Enhanced design achieved through increased awareness of buried asset information, enabling pre-selection of the most appropriate and cost effective methodology
- Reduction in S74 penalties for defective Streetworks saving time and money
- Traceability of materials, asset and plant and work carried out i.e. Date, time and activity undertaken
- Compliance with current UK Legislation such NRSWA, TMA & HSG47
- Greatly improved site health and safety

ABOUT TRAC-ID

Trac-ID's strategy is to develop and deliver innovative Asset Management Solutions. We have extensive experience of Auto Identification and Mobile Software Technology, and have a track record of specifying and developing software applications for a number of unique client requirements. Unnecessary complexity can be a major barrier to adoption of new solutions, therefore one of the key elements in our solutions is ease of use.

With over 40 year's background in technology and solutions, Trac-ID can bring the benefits of our experience to your company.

For more information and a demonstration, contact:

Alan Jones
ajones@trac-id.co.uk
(07768) 983130

PATIENT SAFETY AND THE INTERNET OF THINGS (IOT)

All over the world there is a demand for more safe and accurate treatment of patient and caretakers.

There is a lot of systems that are used as isolated islands in this area – but – what will occur when different doctors, care institutes, hospitals and homecare organizations don't have control or interact with each other? – is there any mistake done when giving the patient medicine, treatment and care.

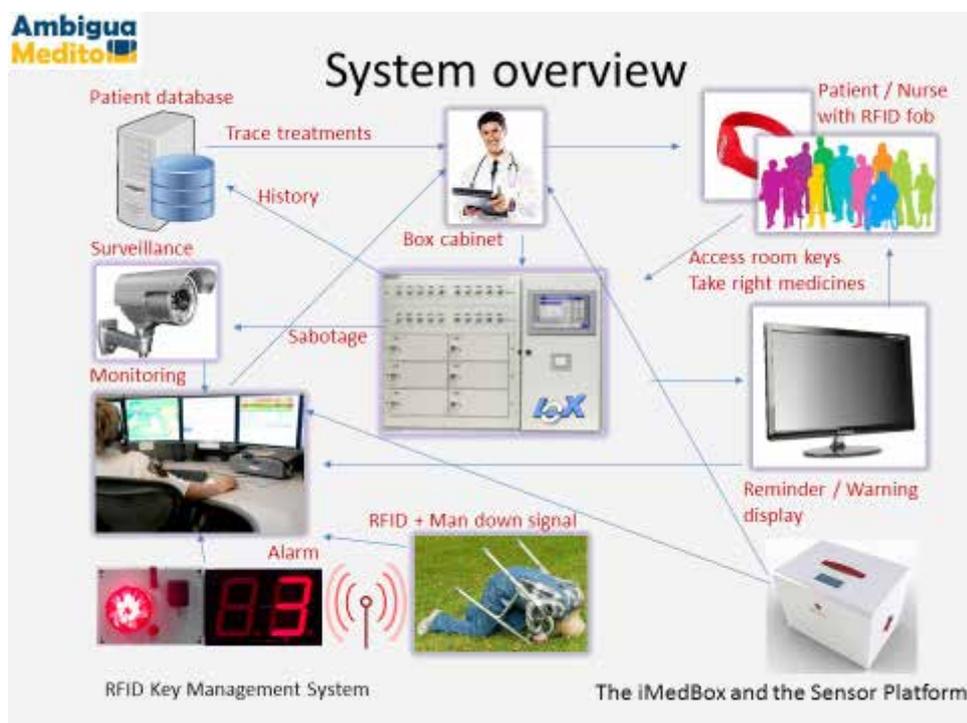
A lot of dedicated care givers are involved – but – still the situation is unclear regarding who, when and what the patient need or even uncertain how many type of medicines, drugs and antibiotic this particular patient is taking.

This is naturally something that the government, and the organization of treatment shall control – but do they need some assistants?

Many don't think they do – but after implementing electronic tools and interactive systems – they hardly like to go back to the "good old days"!

This is just a picture of event that can be controlled and help the caretaker to get quicker and immediate care!

Look at this two systems built up in the area of IoT (Internet of Things) – in the future this are is going to connect several billions sensors, objects and storages around the glob – do you have any idea when this is going to take place? – It is now!



HOW BOX/KEY CABINETS ARE USED

PICKING UP GOODS

1. Identification by RFID card/fingerprint/PIN code
2. Care personnel has access to keys / box contents with rights
3. Take away keys (room-, car-, flat) or/and Take away pills, tools, mobile, etc from boxes
4. Weight is scaled inside the box
5. Cabinet door can be closed

RETURNING GOODS

1. Identification by RFID card (same as used for access system)
2. Key can be returned at any position
3. Item can be put back into the box
4. Weight is scaled and compared to previous value
5. Alarm in case weights do not match or item is overdue
6. Cabinet door can be closed
7. Every moment is logged, registered and can be monitored remotely or can be retrieved easily



HOW THE IMEDBOX ARE USED AT HOME



Ambigua Medito

iMedBox has developed by Ambigua Medito AB Sweden and iPack and a institution at KTH The royal high school of technology in Kista Sweden

Mediated interaction between pharmaceutical package, patient, and remote doctor.

Enabled by RFID, IoT, cloud computing and communication.

Pervasive healthcare and home care

Anna Ericsson ◀ 2009 Nov 9 Mon ▶ 13:00

Time	Medicine Name	Amount
☺ Morning	Metoprolol	100mg 1 tablet
☺ Morning	Isoptin retard	120mg 1 tablet
☺ Morning	Kaleorid	750mg 1 tablet
☺ Morning	Levaxin	50µg 1.5 tablet
☺ Morning	Furiv	80mg
Morning	Prednisolone	5mg 1 tablet
Morning	Tramadol	50mg 1-2 tablets
Evening	Prednisolone	5mg 1 tablet

Doctor: Thomas Johnson +46-xxxxxxx
Tramadol 50mg 1-2 tablets per day if necessary

HOW THE IMEDBOX ARE USED IN THE MEDICARE AREA

PURPOSE

- Improve quality of elderly/medical care
- Eliminate mistakes, increase security in medicine

HANDLING

- Tracing patients, medications, supplies
- Early warning and record of tracked data

FEATURES

- Medication reminders with automatic alert
- Alert when medication is due/out of time
- Alert when incorrect dose is taken from the box
- Avoid to take wrong medicine or in false time
- Patients/Doctors/Nurses/Care personnel has access only to the right box contents and information out of the system

RFID

in EUROPE

WHAT IS RFID IN EUROPE?

RFID in Europe AISBL is a not-for-profit organization established in 2012. RFID in Europe's principle goal is to promote the adoption of Radio Frequency Identification and related technology solutions enabling small and medium sized organizations throughout Europe to gain competitive advantage through their best use. RFID in Europe connects with European end-users, operators, solution providers, universities, research establishments, non-government and government organizations and all other European stakeholders through own initiatives and promotion of national projects via our international network. RFID in Europe is an extension of a European Commission FP7 Thematic Network called RACE networkRFID initiated in 2009. RFID in EU also supports EU National RFID Organisations and related events including: RFID Nordic, DKRFID, ID World and EC IoT Week, in addition to industry initiatives including RFID & U with Marks and Spencers.

OUR MISSION?

Promote the adoption of RFID and related technology solutions across European end-users, operators, solution providers, universities, research establishments, including governmental and nongovernmental organizations.

MAIN ACTIVITIES IN 2016?

- RFID in Europe Magazines with exciting updates www.is.gd/rfid_mag
- Annual general assembly (see the RFID in Europe website for updates)
- Academic engagement - Call for papers / proposals
- Hosting RFID in Europe networking events
- Development of RF identification technology (RFID, NFC, IoT, etc.) roadmap documents outlining current "state of the art" and future market trends.
- Direct engagement with European Commission and EC funded research initiatives
- Conducting European wide surveys to evaluate RFID implementation, highlighting common pitfalls, outlining general recommendations including interest and perceptions.



MEMBERSHIP IS FREE!

www.rfidineurope.eu/join

www.rfidineurope.eu