

LOGOPAK FINDS THE SWEET SPOT FOR METRO

In early 2005 Metro started a pilot-project to identify mixed pallets on a case-level with RFID manually. This meant that each case / traded unit on a pallet received its own individual ID in the form of an Electronic Product Code (EPC) RFID-tag. The goal has been to optimise the reading process by putting each RFID-Tag in the best possible position, the "Sweet Spot". Logopak has now developed and delivers, exclusively, an automatic labelling-system for this application.

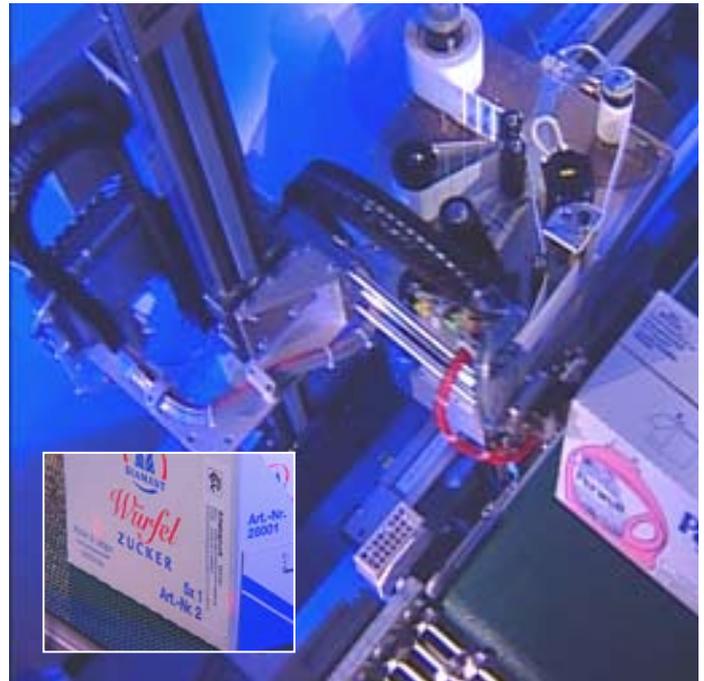
Up to now the was the identification done by a complicated manual process. Since May 2008 this process has been replaced by a new print-and-apply system specifically designed for barcoding- and RFID-requirements for mixed pallets in an automatic way. The target: on each of about 1200 products the RFID-tag must be

- placed in a possible different position.
- within a millimetre of the required position.
- in an either horizontal or vertical aligned position.

Depending on an already present product-ID (usually an EAN-13 barcode) is a database used to find the best possible location for the RFID label, which is then passed on to the printer-applicator. Which then, using an applicator moving both in the X- and Y-direction, locates the position and applies the RFID label on the package. Through this method can each product be tagged in its "Sweet Spot" individually, and leads to an improved and more reliable readout. Particularly in a bulk-read situation is the difference significant.

The identification of individually cases with RFID represent the next step in the RFID-rollout for the Metro Group. It will promises a higher transparency and control of the supply chain, enabling a more detailed data collection on cases, traded units, etc.

The print-and-apply system that was developed by Log-



opak handles the writing of the data to the RFID-tag and the printing of the barcode-label during the label-cycle. After data has bent written to the RFID-label it is subsequently read-out and verified. RFID-tags which are fault or could not be written are removed before being applied to a product. This ensures that only fully functional RFID- and barcode-labels are applied.

The quick-change Print Engine, secure real-time data-handling, networking capabilities and print of logistic labels is 100% integrated with the RFID-handling, offering a flexible and automatic system. The ability to print labels without the RFID-tag makes in an ideal system for mixed production and for future requirements.

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RFID tags from UPM Raflatac ASSURE FAST AND ACCURATE DELIVERIES FOR LOG HOUSE MANUFACTURER HONKARAKENNE

Log house manufacturer Honkarakenne has gained substantial benefits since implementing RFID tags in its production. Tags attached to individual logs contribute to the fact that several unique detached houses can be manufactured simultaneously. In addition to accelerating the manufacturing process, the tags indicate the correct location for each log in the construction stage.

From the customers' perspective this means faster and accurately compiled deliveries. Honkarakenne's RFID system uses UHF EPC Gen2 ShortDipole tags from UPM Raflatac.

Honkarakenne was one of the first in its field to start piloting an RFID system in 2007, and the experience has been good. "Unlike the bar code technology we used before, the RFID tags do not require a direct line of sight with the reader and they function faultlessly even in demanding industrial environments. We have achieved excellent read rates, so it is no longer necessary to identify logs manually. This, in turn, has accelerated our processes," says Olavi Piispanen, Maintenance Manager at Honkarakenne.

Each log house consists of some thousand logs. Each log and its millings need to be carefully identified in the production phase for them to arrive in the right place at the construction stage. "In practice, tags are attached to each log after they have been cut to the right measurements during planing. The tags then inform the production line about the actions that need to be carried out on

individual logs. RFID readers located in automated machines identify the logs, and tooling machines carry out actions defined in the design phase. Next, the logs are identified just before the computer vision which is used to check that the logs have been through all the right operations. The logs are identified once more before packing to assure accurately compiled deliveries to builders, complete with a packing list," Piispanen explains. Honkarakenne currently uses around 2,000 RFID tags in its production each day.



Confirming the authenticity and origin of products and introducing automation to various functions are typical of the industry challenges solved by RFID. "As raw material costs continue to rise, materials need to be utilized more carefully. Speed and efficiency in the supply chain are competitive advantages, and an area where RFID offers undisputed benefits," says Jari Ovaskainen, Business Development Director, UPM Raflatac, RFID.

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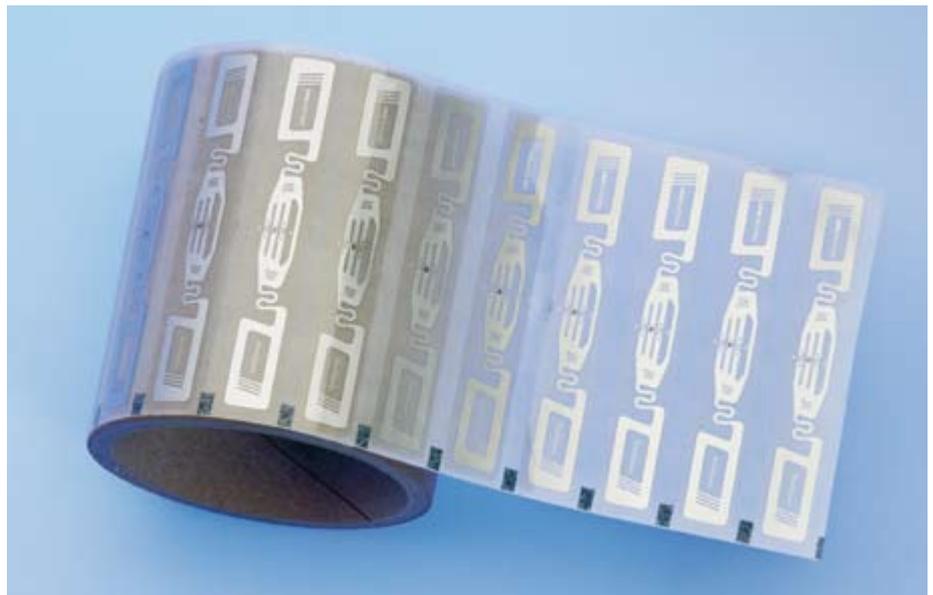
REVOLUTIONARY WIRELESS RFID SOLUTION FOR THE CONCRETE INDUSTRY

International Coding Technologies, Inc. (ICT) has developed a revolutionary wireless RFID solution for the concrete industry. The solution streamlines critical production and inventory management processes and uses UPM Raflatac's Gen2 RFID tags.

The system, TrackCon[®], offers a complete product identification and tracking system, using a mobile computer with RFID read capabilities and a Cast-A-Code[®] tag to provide cradle-to-grave traceability of manufactured concrete structures, including precast, prestress and architectural products. The Cast-A-Code[®] tag features UPM Raflatac's DogBone UHF tag and a water-tight, castable RFID inlay that affixes securely to concrete structures.

The manufactured concrete industry has historically struggled with inventory management challenges. Main issues include manually handled quality control processes, difficulties in verifying customer receipt of materials and high logistical costs due to material returns and reshipments. By serializing each structure and providing real-time data on the location of individual structures, TrackCon[®] allows concrete manufacturers to optimize critical production and distribution processes.

RFID data is used to identify and solve quality issues, ensure that the right materials are shipped to customers, automatically record the GPS coordinates of delivered materials and prepare accurate invoices.



TrackCon[®] also enables concrete manufacturers to deliver superior service by providing customers with the critical information they need to manage inventory in large-scale building projects. In addition, it helps identify and trace concrete structures across their lifespans to maintain their structural integrity and safety.

"We believe the combination of Cast-A-Code[®] and TrackCon[®] will give our business the same real-time management tools other industries have enjoyed for years," says Greg Stratis, General Manager, EF Shea.

To develop TrackCon[®], ICT needed to overcome technical obstacles, including creating a form that could be anchored to concrete structures and ensuring that RFID tags would read accurately through up to 12 inches of concrete.

"After extensive testing, we determined that UPM Raflatac's DogBone UHF RFID tags provided the best read

rates from the furthest distances, allowing us to offer our customers a truly powerful RFID-enabled productivity solution," says Tom Tilson, CEO, International Coding Technologies, Inc.

"UPM Raflatac is pleased to partner with ICT to develop a new system that offers innovative, leap-ahead inventory management capabilities to the manufactured concrete industry," says Jan Svoboda, RFID Sales & Marketing Director, Americas, UPM Raflatac.

"We believe that the TrackCon[®] solution and our DogBone UHF tag provide customers with powerful insights they can use to optimize their supply chains and strengthen vital business relationships."

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IDENTEC SOLUTIONS TECHNOLOGY RISES WITH NEW YORK SKYLINE

IDENTEC SOLUTIONS groundbreaking Intelligent Long Range (ILR) RFID technology is playing an instrumental role in the construction of the monumental Freedom Tower located at the World Trade Center site in downtown Manhattan. Construction of the 1,776 foot tower has been underway since April of 2006 with an anticipated opening sometime in 2011.

Every slab of cement throughout this dramatic building, including the footings, core walls, elevator shafts, stairs wells, and all mechanical spaces throughout the Freedom Tower complex, will have utilized IDENTEC SOLUTIONS technology. IDENTEC SOLUTIONS i-Q32 Temperature Tracking Tags are embedded in the concrete and wirelessly send temperature information to the Concrete Maturity Monitoring System (CMMS) developed by Wake, Inc. This process allows the contractor to better manage concrete maturity in all of the walls and other structural components, which can be as thick as 20 feet, which make up the building.

As the world's tallest building when completed, the Freedom Tower utilizes

core footings which have a concrete strength of 14,000 psi, three times the norm and a record in the NYC construction industry. The Concrete Maturity Monitoring System (CMMS) pro-



vides a major change in the process of collecting temperature data at several locations within a concrete project. The CMMS eliminates the need for probes and wires attached to external devices. This will help the contractor determine ultimate concrete maturity

and strength more effectively, thus cutting down on construction time and costs.

"We are honoured that IDENTEC SOLUTIONS technology was selected to play an integral role in the construction of this iconic building," states IDENTEC SOLUTIONS Executive Vice President Global Sales, Peter Linke. "The Freedom Tower will be a significant landmark and we are pleased to be part of the rebuilding of the World Trade Center in downtown New York City."

Currently in progress is the installation of the Freedom Tower's foundation including rebar installation for the buildings core footings, steel columns, and the pouring of concrete for the foundation.

Tishman Realty and Construction, the contractor responsible for the overall building of the Freedom Tower, selected IDENTEC SOLUTIONS technology along with Wake, Inc.'s CMMS system as the ideal method for ensuring absolute structural performance while at the same time increasing construction efficiency.

ABOUT WAKE, INC.

WAKE, INC. located in Sturgis, MI provides bar code, RFID, and data

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collection solutions to a wide array of firms and organizations. The Concrete Maturity Monitoring System was developed in 2003 and has received the 2004 NOVA award from the Construction Innovation Forum.

The Concrete Maturity Monitoring System (CMMS) provides a major change in the process of collecting temperature data at several locations within a concrete project by using active RFID tags that are embedded in concrete and that have the ability to collect, store and transmit temperature data during the curing process. The CMMS eliminates the need for probes and wires attached to external devices. It is the convenience and simplicity of the system that allows contractors, engineering firms, and testing facilities to gather raw temperature data. The raw temperature data provides the information to determine optimum concrete strength, curing rates, and documented quality control data for the project.

Wake, Inc. provides solutions to some of the world's leading companies including DOW Chemical, Coca Cola, General Motors, British Petroleum and Ford. For more information visit www.wakeinc.com.

ABOUT IDENTEC SOLUTIONS

Award winning active RFID solution provider, IDENTEC SOLUTIONS is the global leader in wireless tracking and tracing solutions that include intelligent long-range active RFID technology. IDENTEC SOLUTIONS' technology and products are utilized by some of the world's largest companies to facilitate and better manage critical processes or to help track valuable assets in a completely reliable and secure manner. The Intelligent Long Range® (ILR®) active RFID System can identify, locate, track and communicate with assets at a distance of up to 500 meters to deliver superior supply chain real-time visibility in dynamic, demanding environments.

IDENTEC SOLUTIONS' expertise and experience is used by systems integrators and end use customers worldwide in the automotive, transportation and logistics and aerospace and defence industries. As an industry leader, IDENTEC SOLUTIONS has provided asset management solutions and support for a variety of organizations, including an impressive roster of Fortune 500 clients such as Volkswagen, Deutsche Post and General Electric. IDENTEC SOLUTIONS is a privately-held company that is headquartered in Lustenau, Austria. The company's U.S. headquarters is located in Dallas, Texas, with customer service centers in Hong Kong, Germany, Australia and Norway. For more information please visit www.identecsolutions.com.

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DO YOU KNOW ANYONE INTERESTED IN RFID?

Sign on an email for our Dalij News info about RFID around the Globe.

Send an email to ove.canemyr@trendsetter.se

EGG TRACKING WITH SIMATIC RF600 AND SIMATIC IT

Success story of the RFID system used in the food and beverage industry

THE PROJECT

Radio Frequency Identification (RFID) makes an important contribution in helping companies to comply with consumer-protection regulations and EU directives aimed at ensuring maximum safety in the food and beverage industry. It enables products and processes to be tracked by means of automatic identification and continuous documentation. Grupo Leche Pascual Alimentación uses RFID technology for keeping track of liquid egg products.



THE CUSTOMER

Grupo Leche Pascual (GLP) produces and sells milk, milk products, juices, cereals, mineral water, eggs and egg products, refreshment beverages and animal feed. The company's utmost priority is to ensure that each one of its more than 300 different products is always of a high quality. In its production processes, GLP uses innovative and efficient technologies from leading hightech suppliers.

THE CHALLENGE

Wherever food products have to be tracked, it is necessary to clearly identify the ingredients, suppliers and batch numbers for each final product and document the conditions of production and transport. In the case of Leche Pascual, it is not necessary to attach a transponder to each egg. Given that the ambient conditions as well as the origin of the animals or quality of the feedstuffs are constant,

it is sufficient to consider a hall of a chicken farm.

THE SOLUTION RFID AT THE CHICKEN FARM

The eggs are loaded onto trucks fitted with RFID transponders (tags). Each of these tags enables data to be read and written and carries a unique code. A software system logically links this code to all the relevant information such as the chicken farm, the hall and the date and time of detection. The system transmits the data of each truck to GLP in real time by means of GPRS and short message texts (SMS) together with the data relating to production



and stocks. In the chicken farm, the information on the daily loads of the trucks are detected and collected by means of RFID. Transport monitoring The trucks used to transport the eggs have three SIMATIC RF660A RFID antennas and a SIMATIC Microbox PC 420 with which the tags can be read during loading. Once underway, the trucks are monitored via GPS. The temperature, any stops and opening of the doors are all registered automatically. The system is thus able to monitor constant continuation of the cooling chain.

RFID for further processing tasks

When unloading is carried out, the data acquired during the trip is sent to the system. The latter then checks this information against the data it previously received via GSM. For billing the chicken farm, the system automatically assigns the detected weight and quantity to the trucks during weighing. The trucks are now registered. If, for example, the cooling chain has been interrupted, a quality control system imposes a block on the eggs to prevent further processing and stops the trucks – thanks to RFID, without interrupting the actual work process. If a block has not been imposed, the data of the tags is sent to the farm's control center system (SIGP) and stored.

THE ADVANTAGES

Due to its robust housing, the read/write device of the RFID system can be used in a wide temperature range and can cope with the demands of rough industrial environments. System integration, purchasing and maintenance are facilitated by the fact that the central components of the system such as RFID technology in the UHF range, the SIMATIC IT software and the hardware for process data acquisition can be obtained in integral form from a single source. Thanks to RFID and SIMATIC IT, the company receives standardized information and is therefore able to pass on data to its production and quality management sections in order to improve overall efficiency. Automatic, seamless transparency and improves process quality. GLP and Siemens have thus combined procedural and technological know-how to create a pioneering solution for the future.

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THE KEY TO RFID CABINETS!



Developers at the <http://www.rfig.se/> Radio Frequency Investment Group (RFIG) Sweden, in co-operation with Scandinavian Safe AB <http://www.scandinaviansafe.se/> have start trading and taking orders on there new Key-cabinet based on RFID.

After the prototypes of the RFID key cabinets, over the past year has been tested and approved a full concept is released. RFIG, a developer and integrator of RFID systems, and, Scandinavian Safe the cabinet manufacturing partner, together they act as distributor of different combinations of RFID and other security equipments, they will begin marketing the Key cabinet IQ-key in Europe and the Persian Gulf this fall. Later, sales will begin in the United States and other areas. The real takeoff was at the Security fair in

Stockholm, Sweden last week!

The IQ-key offers facility manager and security personal several benefits. It lightens the workload and authorization in the concept of allowing access to keys and other objects only to those permitted to use them. More formally, authorization is a process (often part of a total security system), that protects delicate items by only allowing those resources to be used by authorized consumers that have been granted authority to use them. The personal that previously had to hand over all items directly or in complex matter, and now can do it safely, helps ensure that weaker spots in the logistic chain. they have a easy to use tool if they are pushed to hand over critical keys and other secured items.

Second, administrators have access to electronic data and can access needed

information that security officers and other can use in case a key is lost or is not returned properly.

Finally, the system times usage precisely so users don't get antsy to promote other ways and non interactive solutions.

Keys have passive, read/write RFID tags that operate at 125 kHz and/ or a 2.45 GHz air-interface and they are the most popular tags. They are attached to the keys preferable individually in a non manipulate able way – due to the fact that we have, not only full control of the users, who get in position of the key, as the system also have a timestamp return system. The system handles even temporary users, as they can deposit the keys without open the cabinet, in a special RFID equipped deposit cabinet. It is essential to notify that the cabinet and

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the deposit system all are certified and approved to hold valuables according to the authorization authorities.

If the users have demands for RFID and/or biometric access approval the RFID interrogator reads the tag or the biometrics when the user approaches the cabinet and the key release procedure is started up. Some models also need a keypad to open and/or an alcohol testing equipment build in to the keypad. Some models include a GPRS wireless connection for transmitting data collected from the cabinets RFID antennas mounted around the keys if opening. The antenna reader also authoresses the lock holding each individual key and release the approved actual keys. The information is saved on the imbedded equipment as well as on the computer system.

The system can also be used in a mobile environment and then also be equipped with a GPS and/or GSM base station positioning system.

After the RFID system identifies a user, the computer system prompts the key holder, to select from a displayed individual list, to release the proper key or keys for a given user.

The designers of the system say it takes about five minutes for a user to learn how the cabinets works, and it is easy to remembered procedure or set time of the day and which window to approach the key in the cabinet. The system is programmed so that only one antenna can reach each key to prevent multiple grab of keys as only one key authorized user at the time can be



possessed. The door has to be closed and reopened before a new user can get hold of authorized keys.

“The system is really a tremendous development step forward,” says Peter Hägglund, the Scandinavian Safe executive CEO. “The previous cabinet customers can se the benefits of the new enchantment and customers learned the benefit of the system rapidly, and their usage pf key cabinets improved. They understand that they will get more benefit out of this. It’s a much more sophisticated way of administrating keys.”

A few problems arose during development. Designers of the system had to adjust the covering made in a flexible way to fit in to different mechanical size of cabinets and also to protect the system from other electrical and me-

chanical threats. The RFID antennas, therefore, had to be adjusted to avoid interference with the metal in the keys. Designers also made later versions of the cabinet more stable after observing in initial tests and feedback from the users tried to manipulate and get the system to “tilt”.

To supplement the power, a built in batteries in the equipment can be temporary used, or a power line can be run from a nearby facility if needed. What’s more, users roughed up the RFID cabinet in stressed situations, so, designers decided to pack the RFID system in a protective way. The tags are sealed in the way that they are not sensitive to bad whether or wet environments.

Specially designed software controls the key cabinet system remotely. The data on every key and user specification are stored in the computer and sent once a day or instantly via direct connection or via a wireless connection and modem to an external database in a remote cabinet.

“ROI can be measured in less administration and authorizations procedures, smoother handover of keys or other delicate objects, and the extra time saved for, the owner and other staff, have due to the automated handover process,” Peter Hägglund says.

GO ON AND TRY IT YOURSELF!

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MOBILE PAYMENTS AND CONSUMER INFORMATION IN EACH MANS HAND WITH RFID!

Now, the mobile phone becomes our time's wallet. Load it with your account/credit cards, use it as key or access card or pre-paid monthly card for public services. Pay the coffee, parking ticket or the theatre only through putting the phone against a paying terminal, without using any buttons on your phone. With higher amounts will you be asked to use your pin code, as you do today when paying with cards (with small amount there will be no need for pin code to be used).

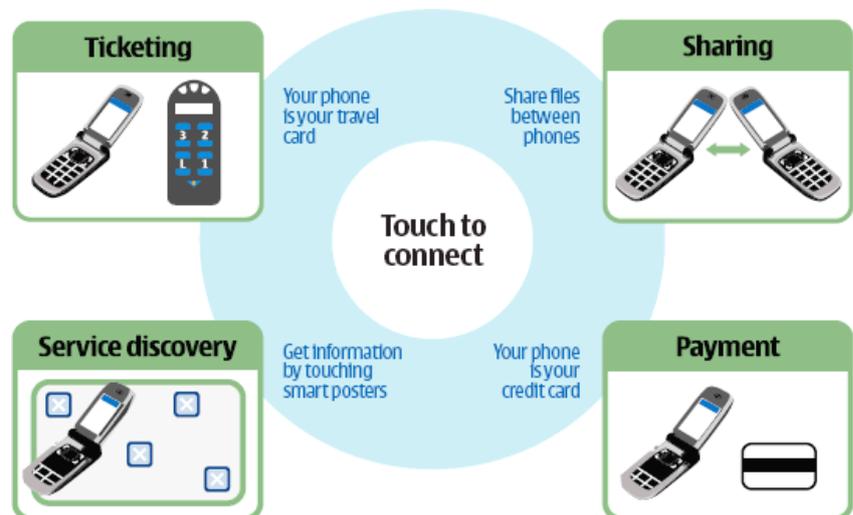
The solution is called NFC (Near Field Communication) and it's an RFID-technology for short reading distance between two units. The "card companies" uses the technology already today for so called contactless payments. You only get close with your card to a paying terminal and the transaction is done.

AN ENTIRE NEW MARKET

NFC in the mobile phone opens up for many exciting solutions, not only as substitute for the plastic cards. It becomes also a perfect information terminal. With a built-in RFID/NFC reader in the mobile phone you can scan of, for example, a cinema poster and automatically get the movie trailer in to your mobile, pay with a SMS for public transportation (with only one button for confirmation) and put the cost on the phone bill. Directions the phone against an RFID-labeled article and get detail information about

materials, production procedures and more. Put the telephone against a timetable and within a second is it transmitted to the phone. Load down your discount coupons from the retail store direct in the mobile and use

Independent analyst predicts that year 2011 there will be between 12 - 30% of all mobile phones that are delivered to be equipped with NFC. The trend can be compared with "blue tooth" that had a careful start but today is



them at the cashier. Already now, the technology is used by security/guard companies, ski lift's, and the home service, an hotel in London is even using the phone as your key to the hotel room. Another small interesting option is that you very simple can program your own tags with help of the phone, to create short commands for the phone etc.

The trend is clear around the world. Japan perhaps has come the longest with that they use mobile phone for payment issues. Exciting installations in Europe can be found in Uleåborg, Vienna and a number Dutch pilot. But the trend is clear, NFC increases rapidly. First out with NFC solutions in the mobile phone is Nokia that already now sees a considerable increase of NFC.

80% of all mobile phones equipped with this technology. LearningWell AB is an IS/IT consulting company with long tradition of application development and system integration. The company has also great expertise in RFID/NFC, project management, operational development, risk management as well as to complete solutions and integration. You are welcome to visit us at the RFID EXPO within the Technical Fair October 21-24 in Stockholm Sweden (you will find us at the open RFID-area) for a demonstration.

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MORE EFFECTIVE ENVIRONMENTAL WORK WITH THE NEW SERVICE SOLUTION FROM DATEMA

Förpacknings & tidningsinsamlingen (FTI) has the task of collecting and recycling packages and newspapers in Sweden. They have a nationwide collecting system of 5 800 recycling stations.

Together with Datema, FTI has introduced a mobile system with handheld computers from Motorola, MC35, and a new application from Datema to simplify and streamline the cleaning inspections of the recycling stations.

The application allows the supervisor, using the built-in GPS, to receive suggestions on what recycling station they are at. Through a number of

forms with questions, the status will be updated and any full containers must be confirmed by a picture taken with the integrated camera. When the inspection is completed the report is directly sent via GPRS to the superior system. If cleaning is required, a working order will be sent to contractors responsible for cleaning and emptying, together with a picture justifying the need.

All reporting is dynamically structured and FTI can change the look of the application of handheld computers and also how the questions and forms should be structured.

In the first quarter with the application operating, more than 50 000 reports were carried out across the country.

A direct benefit of the new system is the ability to move from periodized to governed by needs cleaning and emptying.

Earlier, all reporting were performed with pen and paper which were then manually fed into a web form and it could take several days to weeks before the data was updated.

The FTI is responsible for all recycling facilities in Sweden and the local contractors are responsible for the daily management and operation. They work together for the best possible condition of the recycling stations.

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INFO - STICK

In many parts of the world, things are changing. It may be global or in the local environment. Commonly this is not a problem to most of us, as we can identify the changes in the environment only by looking around and notice the changes. But for some of our neighbours that may have some disordered life, this makes a different.



A hole in the sidewalk, a changes in the surface of the road, a necessary new ditch for new pipes, and other temporary bar that need to be manage need adequate information regarding the changes, that may end up in troublesome situation!

Anders Dahlberg IDEBANKEN in Ludvika thought about this when he recognized the tens situation, that a man with hearing and seeing problem, examined at a Pharmacia when he was trying to

find the rights stand, "Why is there not a technology tick that can help this person, and let him know what to expect around the corner"?

Anders did initiate the first drawing for the stick and a project to produce and test the equipment was with a carbon fibre prestressed plastic solution imbedding a RFID reader.

As the stick has to battery driven the RFID equipment has to be a low power-consuming device attached to the stick and combined with a electronic box. The size has to be small enough to carry in the pocket or in a handbag. The electronic box is used for transforming the RFID information into a sound signal, a vibration composer or to a speech synthesizer.

It is crucial that the equipment can be in use for several hours, as this device will give the user adequate information throughout a long period of usage providing important information to the user. The estimate of time was about eight hours after charging.

To obtain a maximum solution several frequencies was tested. The system was tested not only in the outside environment but also in shops, public transportation, hospitals and other areas.

The next step was that the total system was communicating with a server

system with high access and reliable and effective personal service interaction. The system should also be able to interact with the public traffic control system to give a clear passage and or

Anders Dalbergs conclusion is; "We will 'see' what this innovation is 'taking' us".

significant time to access and use as an easy solution

could be provided to prevent indacertent or wilful passage at a road crossing!

After signing an agreement, a successful test was performed in cooperation with Almi (state investor) and innovationscentrum. This was done in Sweden and was highly recognised in many newspapers. The product was also the winner of the "innovation of the year" reward at the innovation and technology fare.

Today Anders is co-operating with the stock market company Security Dynamics and the product is estimated to be released in due time before the year 2010. This year has been stipulated at the year of outdoor environment implementation year for disabled people.

These demands are not only stipulated for Sweden but also for the entire EU community.

Anders Dalbergs conclusion is; "We will 'see' what this innovation is 'taking' us".

SOKYMAT AUTOMOTIVE MEETS HARSH ENVIRONMENT REQUIREMENTS WITH TOUGH NEW TRANSPONDER

Reichshof-Wehnrath, Germany, September 3, 2008 – SOKYMAT AUTOMOTIVE GmbH, a global leader in the development, production and sale of RFID components for applications across a range of industries, has developed a new robust transponder for logistics and warehouse management in harsh and demanding environments.

The new Tough Operation Performance (T.O.P.) disc transponder is ideal for tracing and tracking pallets, kegs, containers and vehicles – as well as tool identification, process control and waste management in heavy industrial and outdoor situations.

Operating at frequencies of 125kHz +/- 6kHz and featuring an RF64 embedded chip, the T.O.P. disc transponder is a significant addition to SOKYMAT AUTOMOTIVE's well-established family of transponders for industrial applications, including automotive and access control.

With a diameter of 34mm and reduced thickness of 6.0mm, the new product is suited for industrial applications where resistance to chemicals, shock, vibrations and temperature change – both when operational and in storage – is crucial. In addition, as it comes with a universal hole, it can be used with counter-sunk as well as pan-head screws, suits metal applications and can be supplied with color matching options.

As RFID technology establishes itself as the definitive and most secure form of identification and tracking, SOKYMAT AUTOMOTIVE is ensuring that market demands are met. Its flexible, fully automated production lines guarantee high quality and fast delivery, while allowing for customization of all tags of the SOKYMAT AUTOMOTIVE range to suit its customer's specific requirements.

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RFID NORDIC SCHOLARSHIP 2008

And the nominees are.....

Henrik Pålsson & Ola Johansson, Lunds University

Supplychain integration obtained through uniguely labelled gods
– and the impact of Auto-ID on logistics performance.

Björn Nilsson Chalmers/Halmstad

Towards Energy Efficient Protocols for Active RFID

Petteri Koivo, EVTEK University of Applied Sciences, Finland

RFID Solution for Battery Identification

Zhibo Pang & Maijid B Nejad KTH Royal Inst. Of Technology

TouchMe System – RFID Solution for Interactive Package with Mediated Service

Oskar Josefsson, Uppsala University

A Field Service Application

Anders Banghoj Nielsen, Copenhagen Business School

RFID i Forsyningskaeden

Naveed Ahsan, Linköping University

Highly Linear Wideband Low Power Current Mode LNA

Jacob Schaffalitzky de Muckadell, Copenhagen Business School

Use of RFID in the Danish Market



On the following pages you can find the programme for the International Seminars at RFID EXPO 2008 21-24 of October.

**PLEASE MAKE YOUR
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A seminar at the Scandinavian Technical Fair

Tuesday – October 21 | Theme: Industry

- 1 09.00 – 09.40 RFID in maintenance**
-
- Not only a record of the work carried out, but also total asset management made extremely easy.
- **Alan Jones**/EGS Solutions Ltd
- 2 10.00 – 10.40 RFID in logistics today and tomorrow**
-
- **Vasumathi Briques**/Vice President, Innovation and Pervasive Computing, Oracle EMEA
- 3 11.00 – 11.40 RFID today and tomorrow**
-
- From an Asian point of view. The U-chip etc.
- **Ravi Ahluwalia**/Hitachi Europe
- Buffet lunch and coffee in the breaks will be served outside the seminar**
- 4 13.00 – 13.40 How to develop future stars within RFID**
-
- Effective ways of supporting technology start-ups – the STING experience. Key success factors for taking an innovative technology to a successful export company.
- **Case:** Scirocco's exciting journey from being a start-up with an innovative RFID technology to a listed company with an international network of resellers on three continents.
- **Pär Hedberg**/CEO of STING
 - **Peter Thorander**/CEO of Scirocco
- 5 14.00 – 14.40 RFID and MES improve your competitiveness**
-
- RFID solutions for today and examples for tomorrow to ensure greater transparency and improved process quality.
- **Günter Lanzer**/Business Manager RFID, Siemens AG
- 6 15.00 – 15.40 Automotive solutions for automotive contest excellence**
-
- **Herbert Hohman**/Vice President, Identec Solutions + Customer

A seminar at the Scandinavian Technical Fair

Wednesday – October 22 | Theme: Trade

- 7 09.00 – 09.40 RFID in retail and logistics**
-
- Business benefits of mobile UHF RFID in European retail and logistics.
 – **Cases:** Alterbio, Carrefour, Schiphol Airport, Selexys, Asa Book Store.
 • **Atte Kaskihalm**/*Vice President, Nordic ID*
- 8 10.00 – 10.40 EU policy for RFID**
-
- How to preserve people's faith in technology such as RFID, while at the same time working on the development of RFID-based services. This seminar will deal with EU policies for RFID.
 • **Christian Wernberg-Tougaard**/*Director, Technology-Strategy Operations, In4Change.com*
- 9 11.00 – 11.40 RFID in daily use**
-
- Presentation of client cases.
 • **Jari Ovaskainen**/*UPM Raflatac*
- Buffet lunch and coffee in the breaks will be served outside the seminar**
- 10 13.00 – 13.40 The role of business angels and venture capital in developing new technology-based companies**
-
- Swedish Private Equity & Venture Capital Association – promoting an efficiently performing private equity industry in Sweden.
 CONNECT Sweden – links entrepreneurs with competence, capital and new markets.
 – **Case:** Swedish Bar Systems – provides the bar and restaurant industry with an inventory and control system for monitoring and controlling alcoholic beverages
 • **Marie Reinius**/*CEO, Swedish Private Equity & Venture Capital Association*
 • **Johan Carlstedt**/*CEO, CONNECT Sweden*
 • **Richard Gabler**/*CEO, Swedish Bar Systems*
- 11 14.00 – 14.40 Status of NFC, current use and examples**
-
- **Kari Tuovinen**/*Business Manager, NOKIA*
- 12 15.00 – 15.40 The magic mobile and RFID, payments and reading**
-
- **Li-Rong Zheng**/*Professor of Media Electronics, Royal Swedish Institute of Technology (KTH)*

A seminar at the Scandinavian Technical Fair

Thursday – October 23 | Theme: Services

- 13 09.00 – 09.40 RFID in Service**
 Real life implementations
 • *Walter G Höfling/Xpanium*
-
- 14 10.00 – 10.40 Traceability and control of recycling containers**
 Biggest RFID project in Sweden?
 • *Anders Hermansson/Bnear IT*
-
- 15 11.00 – 11.40 RFID industrial terminals in harsh environments**
 • *Georg Machacek/ttNetcom*
- Buffet lunch and coffee in the breaks will be served outside the seminar**
-
- 16 13.00 – 13.40 Good examples with RFID in Services**
 Consumer benefits, product and service information in a new, mobile way.
 RFID and NFC as helpful tools for the disabled.
 • *Gunnar Ivansson/Learningwell*
-
- 17 14.00 – 14.40 Total control of farming with the help of RFID**
 And other exciting examples.
 • *Roland Johansson/ABC Systems*
-
- 18 15.00 – 15.40 RFID in the hands of the passenger**
 How RFID can help to extend the ROI in services.
 • *Lucas Åhlström/RFIG*

A seminar at the Scandinavian Technical Fair

Friday – October 24 | Theme: Auto Industry/Standards

- 19 09.00 – 09.40 RFID – take control over production and logistics**
-
- Optimize your resources and make quick decisions for changes, using the right basic data.
- **Günter Lanzer**/Business Manager RFID, Siemens AG
- 20 10.00 – 10.40 Improved efficiency and visibility in supply chains with EPCglobal standards**
-
- EPCglobal standards are increasingly the standards of choice across all sectors. Companies around the world are using EPCglobal standards to improve logistics, enhance traceability and optimize production. This presentation shows the benefits of using global standards when implementing RFID by highlighting examples from various sectors.
- **Alice Mukaru**/GSI
- 21 11.00 – 11.40 RFID in large-scale vehicle logistics services – Assistor case**
-
- Digja has provided the Assistor car logistics company with a new, realtime vehicle logistics management system. In this system, RFID technology contributes to the efficient handling of vehicles in demanding environments, such as in large harbours and warehouses.
- **Petri Anttila**/Director Offering and New Business Development, Digja Plc
- Buffet lunch and coffee in the breaks will be served outside the seminar**
- 22 13.00 – 13.40 RFID in the production process of the Nokian Tyres**
-
- Nokian Tyres has taken an RFID-based Manufacturing Execution System into service in their tyre production process. The new system is used in planning, tracking and controlling the tread component production at the Nokian Tyres production plant in Nokia, Finland.
- *Representatives from EB, Trackway and Confidex*
- 23 14.00 – 14.40 Warehouse logistics and RFID**
-
- Examples and ideas
- **Stefan Bertling**/ELSE
- 24 15.00 – 15.40 Standards**
-
- **Olle Hydbom**/RFID Constructors

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