

RFIDnordic.se

INFORMATION CONCERNING RFID IN SCANDINAVIA Feb 2008

And the nominated are.....

THE GOLDEN TAG 2007

During RFID i Norden, 6th February the Gold Tag and the Mini Tag will be awarded at the Kista Science Tower. The 2007 annual competition contains a record number of nominations.

The following have been nominated.

STORA ENSO

Consultant Wisteq

Assignment: A pass system for the Anjalankoski Foundry at Kymenlaak in Finland. The Solution: RFID based exemption passes with automatic reader of pedestrians, cyclists and motor cyclists.

The exemption pass is a tough passive transponder that can be read from a distance of several meters and be written over a about a 100000 times.

THE WEST BOTHNIAN COUNTY LIBRARY

Consultant: Teknikhuset Auto index AB

Assignment: To make it easier for people with reading difficulties to find their way around the Library's selection of books.

Solution: RFID tags on the book's spine which can be read by a "finger reader" from a distance of a few centimeters. Information about the selected book can be accessed from a retrievable memory system and concerted into speech which can then read aloud through earphones. RFID tags at strategic places like on the sides of shelves makes general orientation possible to with the help of these applications.



NP COLLECTION

Consultant: UPM Raflatac

Assignment: To be able to locate bolts of cloth/garments in real time through the complete production chain from the textile manufacturer right through to the retailer.

Solution: Tags are sewn into the garments, decoder an Ariel for RFID and a logistics partner and system integration with the existing system.

LKAB

Consultant: Soft Center

Assignment: To collect information to give to machines operators in the mine tunnels to use as background material for when the loading of ore should be halted. So that loads of iron ore from every detonation can be optimized from the ore lode.

Solution: RFID decoders that can locate a loading machine's logistical position at high speed. The loading machine's computer via a local network in the machine can communicate with a RFID reader via TCP/IP. The computer also has a radio network (WLAN 802.11G) so that via the TCP/IP be able to communicate with the follow-up system. The scoop roller is hooked up to loader's computer via an RS -232 boundary beacon

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SVENSK HANDEL

Consultant: Hink Studio

Assignment: Information terminals for products in the shop.

Solution: A RFID marked product is placed upon or is shown to a strategically placed RFID aerial where additional information is received immediately in optional languages, graphic illustrations, color simulations, voice reading texts, links to web sites, ware house status and so on.

RAMIRENT FINLAND LTD

Consultant: Wisteq

Assignment: Tracing machines and equipment that have been hired out.

Solution: A hard passive RFID tag, with a microchip aerial to be able to read and send radio signals that are impervious to metal and water in its near vicinity. As an application the newly developed and patented PAFFA aerial is used for the first time as a commercial appliance. The aerial can be produced with many conventional printing methods that are used in the electronics industry, for example with etched copper on a PET-substratum

BEGAGNADE BILDELAR JAN SOLSTAD AB

Consultant: RFIG/PLEFO

Assignment: positioning of catalysts to prevent theft at scrap yards.

Solution: The catalysts are equipped with an active RFID transponder. If an unauthorized touches a catalyst then a surveillance system with film cameras is activated. If the catalyst is removed from the yard then a built-in GPRS unit is initiated which via an administrative system sends an alarm signal to the authorized personnel. A GPS can start up if a cell-positioning needs refining.

SVANEN RIKSTVÄTT

Consultant: AREFF Systems AB

Assignment: To measure the amount of time every employee spends at different work stations.

Solution: An attendance system based upon RFID which keeps check of every individual's movements between the different work stations. With the help of a simple analysis function within the RFID system as well as the possibility to simply export data to

other analysis programs (for example Microsoft Excel, SQL etc) then the user has control of the resource distribution in the work flow.

VEOLIA MILJÖ SIKKERHETS-SERVISE

Consultant: Telenor Iris

Assignment: Identifying and positioning of plastic containers for more effective storing and administration. The containers are used for the collection of paper documents that are to be securely destroyed.

Solution: RFID tagged containers that are registered both in and out of the storage area as well as delivering and collecting from customers. The registering is achieved by portable hand held RFID-LF reader. On collection all RFID containers are weighed on scale plate and the information is sent with the rest of the information automatically via cell net to the company's customer center.

VOLVO RFID INTEGRATED INTO WORK GLOVES

Consultant: Datema

Assignment: Identifying transportation stands for easy sorting and to avoid a lack of stands at the motor factory in Skövde.

Solution: The transportation frames are marked with RFID - are read with a work glove with a built in RFID-aerial LF. The glove is coupled to a RFID reader/blue tooth transmitter on the arm. It sends an ID - number to a hand held computer from which the operator receives a voice command how the stand in question is to sorted while at the same time the store inventory is updated via a cord less network.

AKER YARDS

Consultant: Identifying employees aboard a cruise ship in dry dock, so that in the event of a fire or some other mishap be able to identify who is on board.

Solution: Passive RFID -tags in the workers safety helmets and reading stations at the gangways on and off of the vessel. The reader according to the EPC standard- Global gen2 and thanks to electric heating at temperatures between -40 to + 50 degrees Celsius.

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WHERE ARE WE GOING AND MORE IMPORTANTLY WHEN!

The RFID association began back in 2004. The first years we were about 10 companies and enthusiasts, who understood the RFID “Groove”. We were convinced that the big break-through was very near. Even though RFID had been around for about 30 years, we were sure that the “biggy” was just around the corner.

Of course we had exciting and interesting RFID installations, but it didn't really take off the way had imagined it would. The following year the association had doubled its membership, interest was expanding, as well the installations. The media got wind of RFID and proclaimed it as something new and exciting, when Wal-Mart presented its RFID intentions, we were almost in ecstasy because then we “knew!” that the time is nigh. Well-respected consultants and analysis companies started to draw up graphs and pie charts, conferences and seminars were arranged all over the world. New RFID producers were popping up all over the place and technology took a big step forward, with new frequencies, extended reading distance. Then prices began to drop. But the real market just kept jogging along at its own pace. Even giants like Wal-Mart began to re-adjust their RFID plans and prognostications.

Of course we had many fantastic and innovative RFID solutions here in northern Europe just like the rest of the world. But we who knew better “understood” that the pharmaceutical industry would be on the cutting edge



Gunnar Ivansson

when it came to employing RFID. Particularly as we had read about it in numerous consultants reports and analysis. But the fact remains. This is a branch content to watch from the sidelines. Of course it's easy joke about our proficiency as experts when we take a look in the rear view mirror, but theory and reality are not always what

we imagined. The internet and cell phone technology are other examples of hard to judge areas where the market has chosen to go its own way contrary to what the experts believed. Ok then what does a hardened expert think about RFID from a Nordic perspective? Firstly I would like to point out that the good old northern climes are doing allright from a RFID standpoint. There are many fantastic solutions that have been created. We can see that mirrored not least in the nominations and the winners of the Gold Tags Awards which are presented annually. Europe as a unit is definitely leading the RFID development.

Even if we hear more about what's happening in, for example the USA. There is still a need for global standards and it is an important factor for RFID from a logistic point of view, to distinguish itself between companies and operations. Here there is a lot happening with GS1, ISO, ODETTE, SIS and other standardization organs. Naturally we in RFID Nordic follow these developments closely. But already a lot has been done, and we don't need to be afraid of combining technical solutions with different kinds of readers and tags/transponders. What

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I do miss here is rather an initiative from branch associations and organizations which should be doing more than they are. But still Swedish trade and, ODETTE and the Swedish building industry are proof positive of what I mean. Apart from this there are many RFID explorations going on, but much more can be achieved. I also feel that companies are a bit "blind" to the great potential in logistics and quality management between companies with the help of RFID. I'm sure that we could find lots of win win situations if only we would get together to talk things over, carry out process analysis and such like. Perhaps then we would be more inclined to share the cost of tags and infrastructure, if it would attain better overall solutions.

When it comes to the technical development within RFID then at the present time there is nothing earth shattering happening at all. Naturally there emerges both smal-

ler, cheaper and more effective tags/transponders, readers and aerials. Of course being able to connect givers and sensors to active transponders has been possible for quite some time. But technology is starting to move even on the passive transponders. Which of course will open new possibilities to collect and log information on a tag. Rather exciting!

NFC (Near field Communications) is another expression that is beginning to appear in connection with, amongst other things, cell phones. This is a technology closely related to RFID and will in the long run open up a lot of new opportunities for us as end consumers. But what the state of things will in 3-5 years I daren't speculate upon. The market still lives a life of its own. RFID Nordic will follow the development of NFC and get involved with what's happening, RFID/NFC standards and so on.

SUMMING UP

There is no hype curve for RFID . There is no top that will then spiral downwards again to a normalization. There was no big breakthrough, neither in 2004, 05, 06, or 07 and there won't be in 2008. Right now there is a steadily increasing and powerful expansion that won't end for many, many years! RFID Nordic is also expanding and has around 60 members at the present time.

I wouldn't be surprised if by the end of this year if we don't have 80 members. Will bar codes still be around in 20 years? Will be still be using cash in 30 years? When will our DNA be apart of our ID? It's difficult, but exciting, particularly when the old crystal ball only stretches as far as the next 2-5 years.

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Anmäl till den dagliga nyhetsmailen på
ove.canemyr@trendsetter.se

NILÖRN PRESENTS AN INNOVATION IN RFID TECHNOLOGY

The Nilörn Group has developed an innovation in RFID technology in collaboration with Craft of Scandinavia. The solution is intended for brands who sell within many different stores – a selfinventory shop rack. This new breakthrough can make restocking a store more efficient, which increases sales and profitability. .

"Nilörn's self-inventory shop rack allows brand owners to check sales trends in the customers' stores, without having to make site visits. The brand owner asks the shop rack to take an inventory of the products currently on the rack. The shop rack then sends an e-mail with the current status to the brand owner. The brand owner can then distribute new products to the store, so that it will always have the full range", says Per Wagnås of the Nilörn Group.

With goods such as underwear, shirts and piqué sweaters, which constantly need replenishment in the store, and which have their own location on a

"Information on the current stock levels at our retailers is exceptionally important".

shop rack, this solution can give a fantastic improvement. Since the goods are always on display in the store, no shopping opportunities are lost. The results are higher sales turnover and increased profitability.

"Information on the current stock levels at our retailers is exceptionally important. We can rapidly top up the store's range, so that they always have the appropriate

range in stock. The consumer is satisfied, the store is satisfied and we can act more quickly", says Hans Larsson, Country Manager for Craft.

The project has been developed in close collaboration with RFID-Con-

structors, the Finnish RFID company, Vilant, and the store fittings company, the ROL Group. The smart labels contain a microchip, which can store large quantities of information, significantly more than there is space for on a bar code.

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NORDIC ID BRINGS NEW RFID PRODUCT VERSIONS INTO THE MARKET

As one of the most developed technology countries and the origin of Nordic ID, Finland has started more and more to invest in developing the utilisation and implementation of RFID technology.

Where ever you walk, you will see RFID in your daily business nowadays; you just need to know where to look. Keep your eyes open in shopping malls, harbours, traffic, factories, public transport, hospitals, etc. Nordic ID has clients among all these environments on a European scale.

NORDIC ID EXPANDED ITS PL3000 PRODUCT PLATFORM WITH HF RFID FEATURES

Nordic ID has expanded its PL3000 product platform with HF RFID, which is perfect for industries with a challenging environment where other features than reading distance are more relevant. HF has advantages over other frequencies by being able to read and write a tag in the presence

of liquids and other obstructions. HF technology's near-field inductive coupling (NFC) has an excellent immunity to environmental noise and electromagnetic interference (EMI). Another benefit of HF technology is that it is the same band available worldwide. The HF RFID is most suitable for item level tracking e.g. in pharmacies, food processing or the healthcare industry. The product has already been tested in several applications, such as, in Orion Pharma's packaging management.

IMPROVED NORDIC ID PL3000 UHF RFID NOW AVAILABLE

Nordic ID has continuously developed its UHF RFID product portfolio to meet its customers' needs. As a result,

the Nordic ID PL3000 with UHF RFID reader has achieved the next level by introducing a 200mW reader and integrated GPRS to increase the productivity, flexibility and longer reading/writing distances with tags. The device can now read tags from a distance of nearly two metres, which allows the use of the device in various new application areas. Users can now benefit from the low operating costs or WLAN and the freedom of GSM as the PL3000 UHF provides both.

NORDIC ID PL3000 UHF RFID AT PORTUGUESE BOOK RETAILER

Nordic ID's latest application announcement with the new 200mW reader was implemented in

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conjunction with item-level RFID deployment at Byblos, a Portuguese book retailer. The units run as part of Creative Systems' (www.creativesystems.pt) TrueVUE RFID platform. The solution enables the tracking of books, software, DVDs, CDs, and periodicals from the back room to the front room. Additionally, as items move around the store floor, it allows each item to be tracked to one of more than 2,000 locations within the store. Inventory counts and

location information are maintained on an ongoing basis using 10 handheld readers located in the front of the store. With this information 40 RFID-enabled customer kiosk stations located throughout the store allow customers to quickly identify where an item actually is located. The inventory tracking system is also updated by RFID reads at 14 point of sale stations and as they move through the front gates of the store. Nordic ID International Headquarters

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SPEECH AND RFID IN THE WAREHOUSE

Psion Teklogix presents a unique RFID solution for Warehouses.

RFID does not need explicit aiming by the user and does not need line of light to the tag. Quite contrary to that it can identify multiple units at once and provide data specific to each individual (product code, size, expiration data, lot number ...)

RFID does not tell the User where to

go and what to take. It adds the ability to verify location, product and quantity and collect product data. Both are HANDS-FREE, EYES-FREE technologies.

With SPEECH och RFID we bring optimal efficiency and realtime accurate data.

This solution for Warehouses makes life easier for everyone.

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A COMPLETE MOBILE BIOMETRICS COMPUTING SOLUTION

Integrated with the WORKABOUT PRO® from Psion Teklogix, MorphoCheck™ offers a flexible biometric mobilecomputing solution that enables authentication of many types of ID-documents.

Examples include, but are not limited to electronic and biometric passports, ID cards, drivers licenses, and voters cards.

The WORKABOUT PRO with MorphoCheck™ offers superior flexibility with various configuration options and has unprecedented data capture capabilities, including: reading contact and contactless electronic chips, scan-

ning 2D barcodes, reading the MRZ band on passports and ID cards via an Optical Character Recognition swipe reader (OCR) and obtaining optimized fingerprint capture, reading and recognition via the fingerprint module from Sagem Sécurité, a leader in biometrics solutions. The WORKABOUT PRO with MorphoCheck is the complete biometrics solution to verify and iden-

tify ID documentation and authenticate and identify people.

MorphoCheck™ offers a flexible mobile solution for fast and secure biometric authentication and identification.

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IF YOU WANT TO FOLLOW THE EXITING DEVELOPMENT JUST WATCH WWW.RFIDNORDIC.SE AND GIVE YOUR OWN COMMENTS.

If you want to be a member of the RFID Nordig organisation just give us a call on +46 8 662 31 95

Welcome

RFID i Norden

RFID: Radio Frequency Identification

The 2008 meeting-place for anyone with interest in learning more about the business use of RFID

Time: February 6 – 7, 2008 Place: Kista Science Tower, Stockholm

DAY 1

International lecturers will tell about the Return of Investment (ROI) as a result of the use of RFID applications.

- 12:30 - 13:00 Registration & Business exhibition
- 13:00 - 13:15 Moderator **Lucas Åhlström**, RFIG
- 13:15 - 13:55 **Alan Jones**, EGS Solutions Ltd
RFID in Maintenance
Not only a 'record' of work carried out but total asset management made extremely easy
- 13:55 - 14:35 **Simon Holloway**, Bloor Research RFID
– from tags to applications *RFID the true partnership market*
- 14:35 - 15:10 Coffee break & Business exhibition
- 15:10 - 15:50 **Olivier Desjeux**, INGECOM
Active Tags and Geo-localization
A true automatic inventory can now be a reality
- 15:50 - 16:30 **Olavi Meriläinen**, Wisteq Oy
UHF-RFID in access control
New possibilities to Stora Enso
- 16:30 - 17:10 **Anders Boman**, Identec Solutions *ROI achieved with RFID within transport logistics and within manufacturing industry*
- 18.30 Drinks
- 19.00 **GALA BANQUET**
- 20.30 Award Ceremony, "Guldtaggen", **Lucas Åhlström**




DAY 2


- 08:30 - 09:00 Registration & Business exhibition
- 09:00 - 12:00 Three conferences:
- Industry
 - Trade
 - Services


Price: SEK 2 995, 10% discount for RFID Nordic members


Further information and application: http://events.packnet.se/o8_rfid

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