

SOKYMAT AUTOMOTIVE LAUNCHES MINIATURE RFID LAUNDRY TRANSPONDER



Sokymat Automotive GmbH, announces the introduction of a miniature laundry tag, the S-Tag10. The 13.56MHz transponder, only 10mm wide and 2mm thick, is one of the smallest laundry tags available on the market.

Until today, pre-sorting of soiled garments, linens or mops in industrial laundries in order to allocate each one to the proper washing process required manual handling. With RFID technology, this sorting process becomes much faster and more efficient, and can also be automated – something not possible with barcodes.

Hygiene is thus improved and it is easier to avoid the loss of items thanks to seamless data management. For this application, specific wash-proof transponders resistant to aggressive chemical agents, moisture, dirt, heat and pressure are necessary in order to guarantee a long lasting solution. The Sokymat Automotive S-Tag10 was developed with this goal in mind. Like the S-Tag16 16mm HF transponder introduced last year, the S-Tag10 is a robust hermetically sealed laundry tag highly resistant to aggressive chemicals and acids, as well as thermal and mechanical stress. Sokymat Automotive guarantees 100% reliability of the tag for 200 washing and drying cycles in accordance with DIN EN ISO15797 “Textiles - Industrial washing and

finishing procedures for testing of workwear”.

Due to its particularly small size, the S-Tag10 is ideal for personal garments in scenarios where individual items need to be tracked at all times to ensure peace of mind to the owner.

The S-Tag family is available with a variety of different ISO 15693-compatible chips. With the S-Tag10, Sokymat Automotive now offers a complete range of RFID transponders covering all textile identification applications. Moreover, the enhanced robustness of the tags makes them suitable also for a variety of harsh-environment industrial applications.



CONTENTS:

- Page 1 Sokymat automotive launches miniature RFID laundry transponder
- Page 2 UPM Raflatac supplies tags to Assistor
- Page 3 Future communications company global
- Page 5 Intermec introduces Windows Mobile
- Page 6 Nordic ID breaks world records in RFID
- Page 7 RFID architecture with scalable RFID performance
- Page 9 Case for books and RFID
- Page 10 Savi teams with Litium Mobile Applications
- Page 11 Den Jyske Kontrolcentral makes security work easier
- Page 13 Special RFID tags in industrial applications
- Page 15 Digia provides Assistor with comprehensive system
- Page 16 Identec Solutions technology rises with New York skyline
- Page 17 Members of RFID NORDIC

UPM RAFLATAC SUPPLIES TAGS TO ONE OF EUROPE'S LARGEST UHF RFID DEPLOYMENTS AT VEHICLE LOGIS- TICS COMPANY ASSISTOR

UPM Raflatac supplies tags to one of Europe's largest UHF RFID deployments at vehicle logistics company Assistor. Accurate real-time information provided by RFID technology improves logistic efficiency.

(UPM Raflatac, Tampere, May 7, 2008)
- UPM Raflatac is supplying UHF EPC Gen2 tags to car logistics company Assistor for use in a new real-time vehicle logistics management solution. The RFID technology contributes to the efficient handling of vehicles in demanding environments, namely large harbours and warehouses. The complete solution has been developed by Digia.

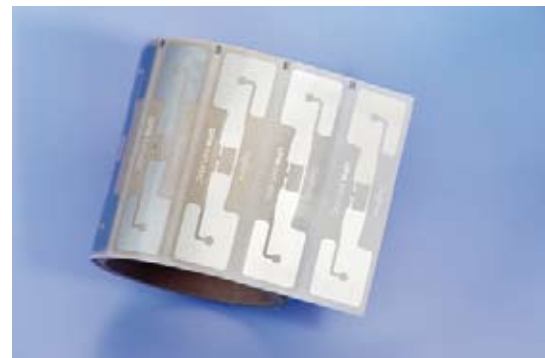
The system utilizes cost-effective, passive RFID technology to identify vehicles quickly and reliably. When unloaded from ships, vehicles are equipped with UPM Raflatac's UHF Gen2 DogBone RFID tags. An exact warehouse location is assigned to each vehicle so that they are easily located with a hand-held RFID reader. A total of 250 readers are used by the system. Each RFID tag carries information about all actions related to the vehicle during storage and production.

Assistor will deliver around 370,000 vehicles to Finland, the Baltic countries and Russia this year. "Maximal use of the real-time data from our processes gives us a competitive advantage. Furthermore, managing large vehicle warehouses and correctly locating vehicles has until now presented a major challenge," explains Tom Suvanto, Deputy Managing Director at Assistor.

UHF RFID tagging provides a reliable way to enhance the effectiveness of vehicle logistics. "UPM Raflatac's UHF Gen2 DogBone RFID tags are designed to function even in the challenging weather conditions that vehicles might face during transportation," says Mikko Nikkanen, RFID Business Development Director at UPM Raflatac. "Vehicles may be covered with snow or encounter heavy rain, for instance, both being conditions in which barcode technology no longer works."

"Having concluded that the RFID technology was sound, making the decision to abandon the old barcode technology was easy," Suvanto says.

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FUTURE COMMUNICATIONS COMPANY GLOBAL (FCCG)

FCCG is a leading holding company in the MENA region with a robust presence in the telecommunications and communications industry.



The company has duly earned domestic, regional and international recognition by constantly expanding the sphere of its activities. FCCG secures and operates 5 pioneering subsidiaries: FCC, FCCI, FTI, MCC and Future RFID whose main business encounters Nokia Mobile Wholesale, Retail and Services Provider, GSM Networks, Radio Frequency Identification Technology, Information Technology and Wireless Service Provider.

Being a sturdy business entity, FCCG plays a positive role in the national economy by appropriately pre-empting and meeting market demand.

Thanks to its notable business portfolio of market leaders, strong financial capabilities, remarkable management team, and an auspicious vision to provide countless opportunities to serve Kuwait and its people.

FUTURE R.F.ID COMPANY

Future RFID was founded in 2004, with a mission to provide RFID products and solutions by partnering with leading RFID vendors both in hardware and software. The company capitalizes on its extensive know-how and expert team, having proficiency in information technology, technical,

sales and marketing, business research and development.

While offering end-to-end communications solutions to satisfy the growing demand of local market, the company continuously attempts to empower businesses with state-of-the-art RFID solutions to stay at the forefront of the industry. As a result, Future introduces Arraya Center, the first RFID retail branch in the MENA region. With today's emerging opportunities, businesses make an effort to streamline their operations by improving field tracking, sales efficiency and inventory management. To help organizations to successfully respond to this challenge, Future works jointly with Nokia in deploying Radio Frequency Identification (RFID) technology in retail sales operation. The company introduces Arraya Center Nokia Retail Branch, a real success that helps us to benefit from the new technology and stay ahead of our competitors. We created the perfect place to showcase our capabilities and pilot the RFID concept, which we will be eventually promoting to the Kuwait market.

RFID SYSTEM DESIGN AND FUNCTIONALITIES

The challenge is to design a system that would provide a near real-time data on items as they move from backroom to front room shelf in the showroom and out to the POS. Since the items are stored in shelf, the tags

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have to be readable even when items are stacked on top of each other.

The new system also had to provide automatic re-ordering of stock levels in any model that fall below set levels, plus automatic logging of each item accurately.



Finally, the system had to deliver substantial overall cost savings to FUTURE - in terms of both space savings and operational savings. More specifically;

Store Stock Maintenance – The store manager would be comfortable as soon as the number of items would reach safety stock levels

Tag Commissioning – The store manager would associate a set of predefined tags with the items.

Shelf Stock Maintenance - Reader at the shelf will update the shelf stock inventory at previously defined periodic levels. Automatic cycle count is possible on near real time basis.

Check-out – The POS would identify customer items for billing and manage store stock

EAS - The application would raise an alert mechanism in the event of items not being check through POS but then also taken from exit door.

Trace and Tracking- Making sure product is on the right shelf or rack when the customer wants to buy it.

EARLY TAG TRIALS

Trials were conducted to determine which tags have the high read accuracy under environmental physics condition over large number of cycles, and which tags could be read reliably and multi-read when tagged items are stacked closely in piles and also allowed the multiple tags read accurately.

TAG COMMISSIONING

Tag commissioning would be the starting point for tracking any items. New items keep coming to the store from central warehouse as and when the showroom stock goes down. Any item that is brought to the store from the warehouse need to undergo tag commissioning process and only then the tracking for any items can be started.

Tag commissioning would handle the following functionalities:

- a. Accepted item received at the showroom from warehouse are commissioned at the back room.
- b. Generating unique numbers – Electronic Product Code (EPC) for each item and encoding EPC number on the tag attached on those items (mobile phones and accessories).
- c. Maintain the association between the unique EPC number on the RFID tag and the item (mobile phones and accessories).
- d. Associate/De-associate item/accessory to the rack

INTELLIGENT BACK ROOM

The solution proposed by WIPRO as a complete supply chain management



system that uses intelligent RFID back room and RFID tags developed and manufactured by UPM Raflatac.

In operation, an item-level RFID tag is attached to each mobile and accesso-

ry box. Each tag is commissioned with a unique identity linked to a database holding data on item type, size, etc. Items from the back room are placed in shelf cabinet monitored by an RFID antenna.

The intelligent shelf automatically reads the chips on each item and knows exactly what they contain (i.e. mobile serial number, stock code and location). The system also detects when items are being added or removed, and the inventory continuously updated on the database in real-time. If item stocks fall below pre-set levels, orders are automatically sent over the network to replenish them in order to ensure items are always available in the showroom.

COST SAVINGS

FUTURE management expects savings of over 25% in operational costs and increase in revenue equally (mainly due to more efficient data collection for improved supply chain management, automated ordering, time-saving because items are found quicker and more importantly increased customer loyalty).

Initial findings are that the FUTURE staff is happy with the new system

because items are always available in their model type, and billing is more efficient with a simple 'scan and go' that is quicker and easier to use.

INTERMEC INTRODUCES WINDOWS MOBILE® -BASED CK61EX HANDHELD COMPUTER, THE MOST FULLY-FEATURED Near-Far EX Imaging Technology Product Yet

Broad feature set including voice support, 802.11a/b/g radio and non-incendive option meets market demand for flexible, future-ready warehouse solutions.

2008 ^ Intermec (NYSE: IN) has introduced the Windows Mobile-based CK61ex handheld computer. This ultra-rugged CK61ex mobile computer with integrated near-far EX imaging technology enables users to quickly scan 1D and 2D bar codes in any orientation, from six inches to 50 feet away, capture images, signatures, and documents as well as benefit from the use of less expensive paper labels for long-distance scans, opening up new efficiencies and application opportunities across the warehouse. The technology also turns warehouse data capture obstacles such as high shelves, multiple bar code formats, damaged labels and dark warehouse corners into opportunities for efficiency.

The CK61ex is the most fully-featured, rugged addition yet to the Intermec EX imaging technology-enabled product suite. It comes available with the most widely adopted embedded operating system, including Windows Mobile 5.0 and includes optional Terminal Emulation support to integrate with existing

warehouse management systems.

In addition, the CK61ex supports growing customer interest in leveraging a-band radio frequencies by offering support for the 802.11a/b/g radio. It comes with 128MB RAM and 192MB storage to accommodate more and

larger applications and their associated data requirements and has support for voice applications. Finally, the CK61ex also provides non-incendive options (UL Class I, II, III, Div 2), and

in 2008, the product will provide mobile RFID read/write functionality through an optional snap-on RFID handle: the recently announced IP30. Its combination of features and capabilities cannot be matched by any product currently on the market.

The CK61ex with integrated EX imaging technology really does it all, so that companies can run their warehouse without compromise, said Director of RFID and Data Capture Marketing for Intermec, Chris Kelley. „The broad feature set meets today,s

needs, and also readies an organization for tomorrow,s changes and opportunities, including the growing prevalence of 2D bar codes in warehouse and distribution systems across industries.

The CK61ex joins the ranks of the successful EX imaging-enabled products CK31ex <<<http://www.intermec.com/products/cmptck31ex/index.aspx>>><http://www.intermec.com/products/cmptck31ex/index.aspx> and SR61ex <<<http://www.intermec.com/products/scansr61ex/index.aspx>>><http://www.intermec.com/products/scansr61ex/index.aspx> , which were released in 2007. „We,ve seen our customers rapidly and enthusiastically adopt the EX product set, finding they can incorporate things like 2D or take advantage of high shelves and improve productivity, said Chris Meyer, president of The SMS Group. „With the CK61ex, market adoption will only increase, and we,re excited to help our customers improve operations and leverage a technology that will be delivering value for them over the long term.

The Intermec CK61ex is now available for order.

About Intermec

Intermec Inc. (NYSE:IN) develops, manufactures and integrates technologies that identify, track and manage supply chain assets. Core technologies include RFID, mobile computing and data collection systems, bar code printers and label media. The company,s products and services are used by customers in many industries worldwide to improve the productivity, quality and responsiveness of business operations. For more information about Intermec, visit



NORDIC ID BREAKS WORLD RECORDS IN RFID

TO ENHANCE LOGISTICS COMPANY OPERATIONS

Nordic ID has delivered a record breaking mobile RFID system to a leading Scandinavian car logistics company, Assistor. As Europe's largest mobile UHF RFID deployment as well as Finland's largest RFID implementation in production Nordic ID has been instrumental in delivering over 250 Nordic ID PL3000 hand-held devices as part of a complete and novel RFID-based car logistics solution.

The system uses RFID technology for the reliable identification of vehicles as they are unloaded from a ship. Once fitted with a reusable RFID identifier, Nordic ID's RFID hand-held terminals are used to locate vehicles for further processing with speed and efficiency - no small task for Assistor which handles as many as 370 000 vehicles per year in Finland, the Baltic countries and Russia.

Speaking about the project, Tom Suvanto, Deputy Managing Director of Assistor said: "The management of large vehicle warehouses and locating the right vehicle presented a major challenge. Nordic ID's RFID hand-holds have proven to be an excellent replacement for the previously used barcode readers. Their RFID functionality with user friendliness, light weight and durability are superior to any other device we've tested."

As well as being exceptionally light-weight and compact with a superb battery life, the PL3000 UHF RFID device can both read and write on tags allowing users to transfer information from barcode to RFID tag conveniently on site.

As with all other Nordic ID devices, the PL3000 UHF RFID device can be equipped with several communication and other functionalities. Technologies such as GPRS/EDGE, WLAN, Bluetooth, USB and barcode reader all combine to ensure seamless connectivity with back office systems.

Nordic ID is a pioneer in the use of RFID technology. The company has launched several leading mobile RFID products including the first European standard UHF RFID reader with 3G and several specialized HF RFID readers as well as the cross-polarized RFID antenna technology.

"Reliability is our watchword at Nordic ID and Nordic ID's RFID technology has now been tested and proven both in large and small scale commercial use. We're proud of our achievement with the Assistor case which is demonstrable proof that our customers, whatever the scale of their operations, can continue to rely on us as their mobile RFID provider," Jorma Lalla, CEO of Nordic ID concluded.

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EB IDENTIFICATION NETWORK

- RFID ARCHITECTURE WITH SCALABLE RFID PERFORMANCE

There are many challenges facing IT departments considering RFID solutions. To manage these challenges typical adoption of RFID follows phased approach starting with Proof-of-Technology phase through conceptual testing and piloting phases. These first real “production” implementations are fairly limited and to show positive ROI also the cost should be limited. On the other hand the selections for the first implementations should be done so that further expansion and integration to end-to-end implementations even over enterprise boundaries are possible.

The investment needs to make sense both in the short term and long term. There are several key factors to be considered, like how to find a reliable solution that scales easily, how to manage the data generated by the RFID network or how to ensure cost-efficiency across the entire business lifecycle.

EB IDENTIFICATION NETWORK

The EB Identification Network™ is

an RFID reader system solution for the demanding environments of large industrial enterprises. The EB solution provides a rational development path towards full-scale deployment of auto identification in any business-critical operation.

EB has used its extensive knowledge in software-defined radio architecture and wireless technologies to design a unique and effective RFID network solution. EB's implementation of

distributed intelligence and emphasis on network performance makes the EB Identification Network a cost-efficient and reliable IT investment.

SYSTEM ARCHITECTURE

The architecture of the EB Identification Network is designed using SOA principles and techniques to enable customers to leverage existing investments, use low-risk approach to RFID deployment and ensure the applica-

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tion meets all critical real business priorities and delivers a clear return on investment.

The EB RFID Network Controller uses EPCglobal Application Level Events (ALE) and EPCIS standards to communicate with enterprise applications. This allows EB to separate the physical layer from the logical layer and use an abstraction methodology to collect and filter data flowing between the RFID network and any enterprise application.

The EB RFID Network Controller uses EPCglobal Reader Protocol (RP) and Reader management (RM) as the device layer control protocols. The RP/RM interfaces means the network can

be used to control multiple ID technologies: UHF, HF, barcode etc.

SCALABILITY

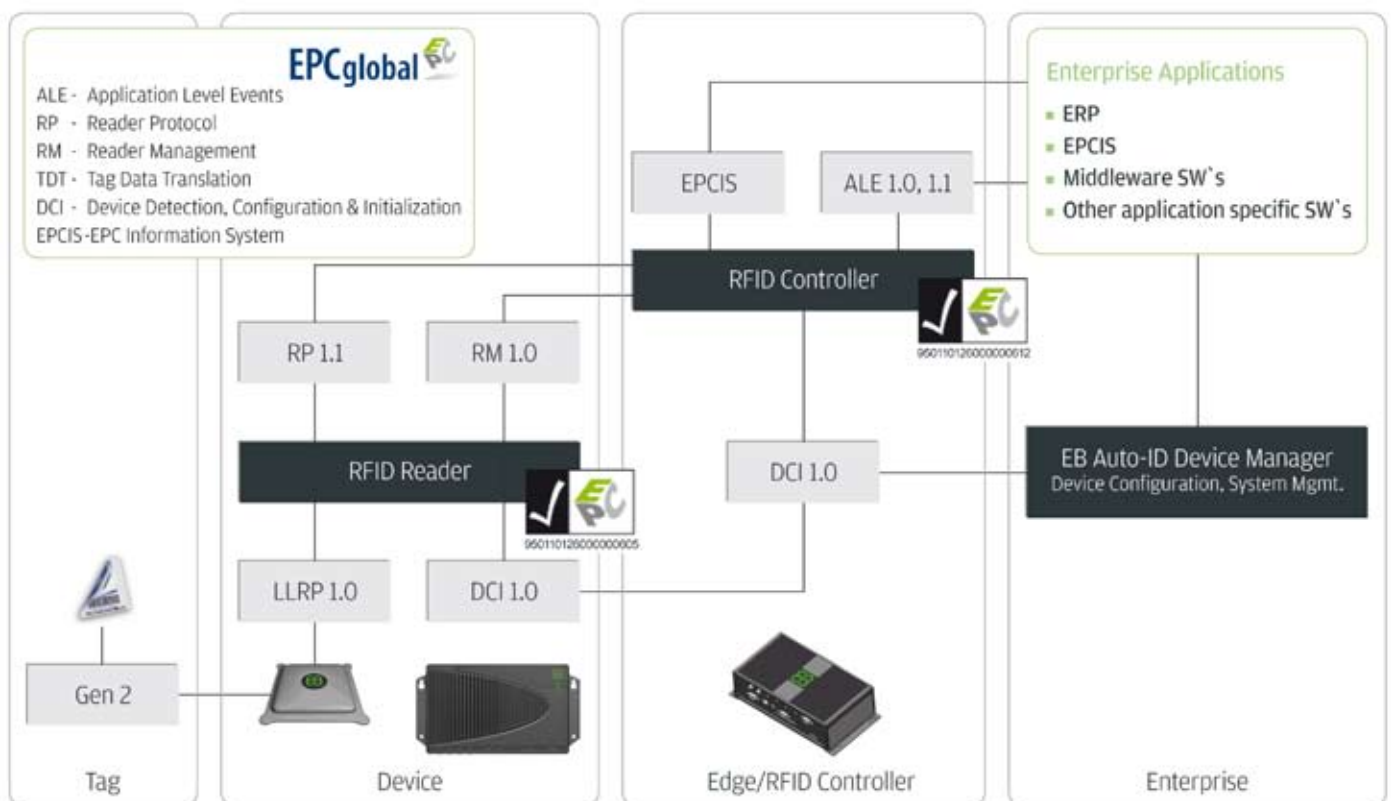
Often a biggest challenge when introducing a new IT system is integrating it to existing systems. EB has given special attention to the work of system integrators and has devised a solution to minimize the integration effort.

Once the controllers of the EB Identification Network are integrated to the ERP-system, expansion is easy and does not require another integration project. Usually additional controllers and readers can be added to the RFID installation by changing existing parameters rather than creating new software code.

EB's RFID solution uses advanced techniques of distributed intelligence to spread key services throughout the RFID network. Each component and each level of the network contains the services it needs to operate with a high degree of independence. In this way, EB ensures future-proof flexibility and scalability in RFID deployments.

The EB Identification Network is based on EPCglobal standard interfaces, as illustrated in figure.

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A CASE FOR BOOKS AND RFID:

CENTRAAL BOEKHUIS AND LOGOPAK

Centraal Boekhuis in Culemborg, The Netherlands, has been the logistics partner in the Dutch book trade for more than 135 years, assuming a key position by bridging the publisher with book stores. Currently, during stocking at Centraal Boekhuis, the books are identified with a label printed and applied by Logopak 906 II TB labelling system

This lift-label contains a bar code for the sorter, the price and additional information for use by the customer and the book stores.

Logopak was approached by Centraal Boekhuis to meet their requirement of accurately printing and applying a label with an EPC Class 1 Generation 2 RFID tag, at a rate of 60 books per minute, inclusive of data verification.



Additional requirements included a special data format, as well as an in-machine logfile creation. After a visit of an engineering team on-site, Logopak came up with a solution and with the help of Centraal Boekhuis built a mock-up of the production line at the headquarters outside Hamburg. "It was a very interesting experience", says Lars Thuring, Managing Director of Logopak

Systems AB, Sweden, "as all involved were working close together to specify and test the system.". About 7000 RFID Tags later the system was successfully demonstrated and a decision for the next step, a field-test in the Netherlands was made.

Labels are printed in real-time and applied at a rate of 60 books per minute. Labels are accurately applied utilising a telescoping applicator with blow-on technology without slowing the books through the sorting process. Accommodation for varying book heights of up to 80mm is incorporated into the Logopak labelling solution. Centraal Boekhuis has successfully run its six sorter lines utilising the reliable and robust Logopak 906-II TB print and apply labelling system since 2003. In addition to the six Logopak machines, five other Logopak systems are in use at Centraal Boekhuis for mail order labelling.

One of Centraal Boekhuis' most important customers is the book trade group BGN (Boek Handelsgroep Nederland), which is comprised of 42 stores including SELEXYZ stores. In

2006 BGN opened its first store utilising RFID-based technology in their logistics supply chain. Smartstore Selexyz Scheltema is located in Almere, The Netherlands. The RFID labels are manually applied to the books, which proves to be very labour-intensive and is only feasible in a small number of SELEXYZ stores. From the onset it has been apparent that automated print and apply RFID labelling would ultimately need to be implemented in order to satisfy the growing number of books requiring the RFID tag. The field-test was held during a weekend early in the 2008 with the RFID-enabled prototype replacing one of the Logopak 906-II labellers used normally. Two complete production runs were defined and executed, involving personnel, IT-systems, several thousand books and detailed test and verification process. "The results were above expectations and the next full-time RFID print-and-apply systems from Logopak have been installed with more to follow."

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DO YOU KNOW ANYONE INTERESTED IN RFID?

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

Send an email to ove.canemyr@trendsetter.se

SAVI TEAMS WITH LITIUM MOBILE APPLICATIONS AS PREFERRED MARKETING AND PROJECT PARTNER IN SCANDINAVIA

Teaming Partnership Provides RFID Solutions for Government, Defence and Commercial Supply Chains.

JÖNKÖPING, Sweden and MOUNTAIN VIEW, Calif. – May 20, 2008 – Savi, a Lockheed Martin [NYSE: LMT] company and provider of wireless supply chain solutions, has chosen Litium Mobile Applications, a consulting firm for mobility and visibility solutions, as a preferred teaming partner in Scandinavia. The teaming agreement is part of Savi's strategy to deliver Radio Frequency Identification (RFID) and other wireless-based solutions to European government, defence and commercial organizations.

Savi selected Litium Mobile Applications to help with go-to-market and project management support in Sweden, Norway, Denmark and Finland.

Savi has helped build RFID-based tracking networks at more than 4,000 locations in more than 45 countries for defence forces worldwide, including NATO, Denmark, Sweden, the United Kingdom, Spain and Australia. The company's wide range of products and integrated software solutions have been proven to enhance the visibility, management and security of shipments and supplies as they

move through local and global supply chains.

"We're pleased to be partnering with Litium Mobile Applications because of its technical expertise, visibility solutions and its knowledge of the regional Scandinavian marketplace," said Bruce Jacquemard, Savi Technology's managing director for International Business. "Defence forces applying our solutions are discovering dramatic improvements in locating, managing and delivering critical supplies while also reducing costs and improving operational efficiency."

"The powerful combination of Savi as a leading RFID solution provider with the regional business

expertise of Litium Mobile Applications will enable customers throughout Scandinavia to cut transportation costs, enhance service levels and provide competitive advantages," said Hans Börjesson, CEO Litium Mobile Applications. "As a preferred teaming partner of Lockheed Martin's Savi subsidiary, we can broaden and strengthen our strategic offerings throughout Scandinavia."



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DEN JYSKE KONTROLCENTRAL MAKES SECURITY WORK EASIER WITH INTERMEC'S HANDHELD COMPUTERS

Den Jyske Kontrolcentral (DJK) is one of the largest alarm centres in Denmark. The company has been in existence since the 1970s and today has national coverage with over 30,000 customers throughout Denmark. Twenty-four hours a day, 365 days a year, some 50 staff handle and check incoming alarms and ensure that the proper action is taken.

Two thirds of DJK's total clientele is made up of companies which install burglar alarms. DJK is a subcontractor to these. When a break-in alarm comes in – an alarm which requires that a security guard be sent to the location – DJK takes care of the communication with the guard in question, as it has done for the past three years, by means of software from Intermec's Scandinavian partner Locus and Intermec 760 handheld computers.

DJK was the first alarm centre in Denmark to integrate a mobile information device into its work. Today the owners of alarm systems who have a contract with security companies which in turn have DJK as a subcontractor can be covered by a single system. The

system is without doubt a significant competition advantage in the fight for Danish customers.

LACK OF A FLEXIBLE SYSTEM

Scarcely three years ago DJK did not have a flexible information system. Everything was handled by telephone and produced a mountain of paperwork. When an alarm came in the operators at DJK had to contact the guards in the field on their mobile telephones. No other method was possible.

– Previously we communicated exclusively by telephone, says Henrik Egsgaard, administrative director and project leader at DJK. There were more calls back and forward between operators and guards than were neces-

sary. The process was unbelievably time-consuming for all those involved.

DJK tries to monitor its work continuously and improve it as it goes along. In this case it was clear that communication with security companies and guards in the field could be better.

– Being able to reduce the length of calls and to use this time for other matters was an important reason why we started looking around for a more flexible solution and gradually installed a completely new information system, continues Henrik Egsgaard.

Almost three years ago Locus, DJK's main software and hardware supplier, contacted DJK. Locus wanted

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to demonstrate a mobile information system used by a Norwegian alarm centre. The handheld computer in use in Norway was the Intermec 760, a device adapted for mobile work and therefore suitable for a security guard's daily work.

– DJK needed mobile devices, that much we knew, says Klaus Vium Andersen, head of sales at Locus. But we also focused on the possibility of guards getting information in real time and user-friendliness, requirements which the Intermec 760 met.



A SYSTEM WITH MANY ADVANTAGES

Today the information system is used on a daily basis in communication with 200-250 security guards, all of whom are equipped with handheld computers from Intermec. The advantages of the new system are many. DJK's personnel are today, unlike previously, completely synchronised with the alarms they monitor. Alarms now come in on a screen in the control room at the same time as the guards are located and their status is shown. The operator then sees what resources are available and how close to the alarm they are. Instructions and information are then sent in real time to the guard's handheld computer. The guard can in turn keep the operator updated using this handheld computer.

– There have been significantly fewer telephone calls, according to Henrik Egsgaard. Monitoring of resources has become better, which means that the

guards can now be used more efficiently. Using the new information system we have a completely different flow of communication.

The advantages for the guards have also been evident. Thanks to the handheld computers they receive information from DJK right in their hands, with a precise description of the assignment and directions to the location of the alarm. Thanks to the rapid flow of information between the control room and handheld computers, the guards' safety has also increased. They can, for example, trigger an alarm directly from the handheld computer if

they are held up etc.

Reduced time spent on calls and better monitoring have contributed to DJK being able to handle more customers, both in number but also at the same.

– When there is a large number of alarms simultaneously and we need to contact several guards at the same time, the system works perfectly, according to Henrik Egsgaard. It has become significantly easier for us to forward each alarm to the appropriate guard. Instead of ringing now we only need to press a few keys.

CONTINUOUS DEVELOPMENT OF THE SYSTEM

Installation and use of the software and handheld computers have worked without any problems. But as DJK is dependent on an information system which always works, together with the users they have formed a development group which has met continually since

its implementation to develop the system further.

– It is important that the solution be developed together with the guards since it is their handheld computers we communicate with on a daily basis, says Henrik Egsgaard. Corrections and new applications are dictated by the users and based on feedback from the guards.

Furthermore the software is ready for the Intermec CN3, which is now being tested by DJK so they will soon be able to upgrade the technology.

– The market for mobile solutions for security and security-guard companies is growing rapidly, says Klaus Vium Andersen. The need for optimal security and flexible operation is growing in line with technological development. Security-guard companies must be able to act in real time, both for the sake of the customer and also the guard.

– Both the Intermec 760 and our new CN3 are very well suited to mobile applications with high security requirements. We see the fact that our handheld computers are used in the security industry as a successful combination and something that also proves the quality of our product, says Linda Skanser Timsäter, Nordic PR and Marketing Manager, Intermec Technologies.

DJK can see that customer loyalty has grown since they implemented the new information system. They also notice that customers they do not have at the moment are asking for this type of solution. More and more they want the security companies they engage to have a subcontractor that adopts the system DJK uses.

– Communication between us and the guards is more efficient and reliable than ever before, according to Henrik Egsgaard. There is complete coordination between the software and the handheld computers. The guards receive all the information they need quickly and at the same time no information is lost along the way. And all parties are happy

SPECIAL RFID TAGS IN INDUSTRIAL APPLICATIONS

Together with increased competition in the retail industry, the rising costs of new returnable transit items (RTI) are creating more demand for better visibility. Estimations of up to 15% annual shrinkage of these assets have been reported according to ABI Research. With companies owning RTIs worth of tens or hundreds of millions of euros, the repetitive investments for replenishing their pool is a serious business problem.

Among various technological solutions, long-range passive UHF RFID has been seen as most prominent solution. Main drivers for that has been sufficient reading distance in transportation points, ability to read tens or even hundreds of items in just few seconds and the maturation of regulations and standards worldwide. There are few industrial interest groups which are paving the road for larger deployments of RFID in RTIs. First being the pool owners who lease the items to their customers, and secondly companies owning large quantities of their own, often special RTIs needed in their businesses.

One of the most significant RFID projects in 2007 for was for Container Centralen's CC Eurodolly, a plastic transit items designed for beverage industries. Confidex designed and manufactured 300.000 UHF Gen2 hard tags for these CC Eurodollies, with life-time expectancy of the transit item itself.

Equipping the Eurodollies with RFID, it provides both improved fleet management of dollies for CC itself during the MRO (maintenance and repair operations) of the Eurodollies, as well as a new possibility for their



customers to improve visibility in the beverage logistics operations. From the industries where the companies own their RTIs, automotive companies are one of the largest owner groups of returnable transit items in the world. Especially in automotive industry, using RFID for improving the traceability, is probably at its best. Due to the supply chain model between the subcontractors and car manufacturers, quite often the RTIs are circulating between known suppliers and customers. These so called "closed loop" applications still have great difficulties in inventorying the RTIs, transporting them accurately to loading points, or identifying the content efficiently or correctly during the transportation.

Long-range UHF RFID can give both parties tools to improve their business processes of sequential supply (JIT, JIS) and ensuring that the components are distributed correctly. Therefore a large amount of RFID projects are ongoing in the industry currently, with many of them requiring more from the RFID tags than typical disposable, ultra-low

cost 'smart labels' can offer. Confidex have chosen automotive industry as a key industrial segment. From

the applications inside this industry especially the RTI tagging and production related processes were taken as focus applications. Confidex has created for this a comprehensive UHF tag product portfolio ranging from directly on-metal attached hard tags to durable labels.

Main criteria for these products were along with high readability, also maintenance-free operation and resistance against environmental stresses. In RTIs designed for hard-use such as metal pallets and containers the impacts by forklift trucks or extreme temperature variations created a demand for a solid, IP68 rated hard tag with sufficiently small size to fit to most of the RTIs in the industry. The Confidex Ironside™, Survivor™ and Halo™ have been selected to many metallic transport items in the automotive logistics applications. Interesting enough, the automotive industry also holds a large quantity of wooden pallets, to which Confidex developed an innovation to retro-fit a small, cost-efficient tag – Confidex Pino™. Also flexibility to adapt the tags to customer processes often require special features to be added like extended memory or additional fixing tools, like welding brackets, magnetic backing etc which all are part of the Confidex service offering.

CONTINUE >>

Another target application in the automotive industry was the work-in-progress (WIP) applications. Some of the existing tracking solutions required intensive maintenance or they were not capable of detecting the produced items reliably during the process. Processes in the production processes had entered the new millennium, but in many cases the identification solutions were relied on line-of-sight or single-sourced proprietary solutions. Confidex supplies Confidex Corona – a heat resistant label for automotive manufacturing processes where chemical and high temperatures have prohibited the use of RFID earlier at a feasible investment. The cost-per-use model of RFID in this production phase from the construction of the chassis to the painting and coating processes provided a sustainable approach for Volvo Cars in Gent, Belgium. They have started a project with Corona tags with objective to further improve their world-class production and quality control processes.

Tyre manufacturing is another key focus application for Confidex where the secure identification of individual



tyres is crucial for the manufacturers. Confidex Cruiser™ – an UHF label is attached to the tyre when the different layers are compiled and put to the mold. Cruiser label was developed to survive the extreme pressure and heat even up to several hours. After the molding processes, during the quality

control inside the production, the RFID label can provide secure tracking of quality defects, ensuring that they are not accidentally passed to the customers – eventually to us, whose lives are relying on those four rubber bands under fast moving vehicles. RFID tags in tyres can bring also more added value for tyre manufacturers during the logistics operations when they are transported to designated locations either for installation, storage or sale. In after-sale use, the Confidex Cruiser™ could bring also value for those who perform maintenance or retreading e.g. of truck tyres. The usability of RFID tags after production is still under examination but already the early phase benefits are creating enough benefits to consider using RFID technology for tyre tracking in WIP.



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DIGIA PROVIDES ASSISTOR WITH MAJOR, COMPREHENSIVE SYSTEM FOR REAL-TIME VEHICLE LOGISTICS MANAGEMENT

Digia has provided Assistor with a major, operational, comprehensive system including ERP, forwarding, vehicle taxation, a web portal for car dealers, mobile hand-held terminal functionality in the field and in warehouses, and integration between the applications and different parties in the network. Digia Enterprise, an RFID-compatible ERP system, lies at the core of the solution.

For the reliable identification of vehicles, the system uses RFID technology. After being unloaded from a ship, the vehicles are fitted with RFID identifiers before being moved to a specified location in the storage area. Thus, vehicles to be moved for further processing can be found swiftly and surely, using the Nordic ID's RFID hand-held terminal. During warehousing and production, actions carried out on the vehicle can also be reported using the hand-held terminal.

"Since our fast-growing operations required broader functionality, greater scalability and better support for our processes from the system, we needed to renew our operative system. The maximal use of the real-time data arising from our processes represents a competitive advantage to us. Furthermore, the management of large vehicle warehouses and locating the right vehicle presented a major challenge. When Digia suggested the new op-

tion of RFID technology as part of the solution we decided to investigate this in more detail. Having concluded that the technology was sound, taking the decision to move on from the 10-year old barcode and Dolphin hardware-based technology was easy," explains a satisfied Tom Suvanto, Deputy Managing Director of Assistor.

Measured by the number of RFID readers and reusable UHF Gen2 identifiers, the project is Finland's largest RFID implementation in production. The system is a genuinely integrated and process-supporting entity, and is also one of Europe's largest RFID hand-held terminal implementations. It is also a trailblazer in vehicle logistics based on its use of cost-effective, passive RFID technology. Nordic ID hand-held terminals were used.

"Concepting and a technical compatibility analysis formed the basis of a solution model involving the use of RFID

technology. In terms of the system as a whole and our operational processes, RFID functions as a major enabling technology, playing a significant role in Assistor's everyday activities," confirms Petri Anttila, Director, Digia.

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IDENTEC SOLUTIONS TECHNOLOGY RISES WITH NEW YORK SKYLINE

RFID (Radio Frequency Identification) is literally helping set the foundation for the 1,776-foot Freedom Tower that is being constructed where the World Trade Center's original Twin Towers stood in New York City. Builders are embedding thousands of active RFID tags with temperature sensors in the concrete used for the foundation and throughout the structure so they can easily and accurately monitor the curing process.

The RFID tags are being embedded in poured and pre-form concrete used throughout the structure, which will have more than 2.6 million square feet of office and observation space and is scheduled to open in 2011.

The Freedom Tower will have a blast-resistant steel frame, but thousands of yards of concrete will be used for the foundation, stairwells, elevator shafts, and other elements. Many grades of concrete will be used, and each cures differently. Concrete must be completely cured before it can bear a load. The process can take weeks, which necessitates frequent monitoring to keep construction schedules up-to-date.

"There are several ways to monitor concrete maturity. One is mathematical models, which have a high margin of error. Construction tends to take longer because there's such a safety factor to make sure the concrete is really cured," said Peter Linke, president of IDENTEC SOLUTIONS, whose i-Q32 Temperature Tracking Tags and readers are being used in the project. "There are also wired sensors, but the wire has to be removed later. You can

throw our tags right into the concrete and read them with a handheld."

Linke estimates the tags are usually embedded in concrete between eight and 12 feet thick. The concrete

being used in the Freedom Tower is a much stronger grade than typically used in construction, and is said to be a record for a New York City facility, but has not posed a problem for getting reads from the active UHF tags.

"We didn't have to modify our product at all," said Linke.

The tags are integral to the Concrete Maturity Monitoring System (CMMS) developed by Wake, Inc., a data collection solutions provider. Wake developed the system several years ago and has provided it for other construction projects. The company offers a good explanation of the concrete maturity process and how the RFID system works on its website.

Linke said the Freedom Tower project is not a typical application for long-range active RFID, but can help people see how the technology could

be used. "When people think of RFID, they tend to think about EPC and Wal-Mart-type applications," he said. "We see RFID as an intelligent wireless product rather than a standard EPC identifier. It is like a computer you can embed in something and access wirelessly."

Once curing is complete builders have no further use for the RFID tags, which are left encased in the concrete. Linke said they will remain readable for years, as long as the battery lasts.

Last year 3M. released a new line of RFID tags intended for long-term underground use to help locate buried pipes and cables (see New RFID Tags Help 'Call Before You Dig'). Ford has also targeted the construction industry with an RFID solution, offering in-dash computers linked to embedded Gen2 readers in pickup trucks and work vans to help contractors track tagged tools, equipment, and other assets carried in the vehicle (see Ford Builds RFID into Pickups and Vans to Track Cargo).

IDENTEC SOLUTIONS has 80 individual engineers, professionals and support staff in their offices located in Lustenau / Austria, Dallas / Texas, Weinheim / Germany, Husqvarna / Sweden, and Kelowna / Canada.

IDENTEC SOLUTIONS was incorporated in 1997 through an early investment from Gantner Electronic GmbH, a leading Austrian industrial controls company. Together, Gantner and IDENTEC SOLUTIONS developed the patented Intelligent Long Range® (ILR)® RFID technology. Since that time, IDENTEC SOLUTIONS has grown into a global leader in long-range commercial RFID-based products, and has deployed its solutions in a wide variety of applications, industries and environments

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