9Solutions

Location mapped.

MODERN HEALTHCARE WITH THE RIGHT EQUIPMENT.

S. 10 ››

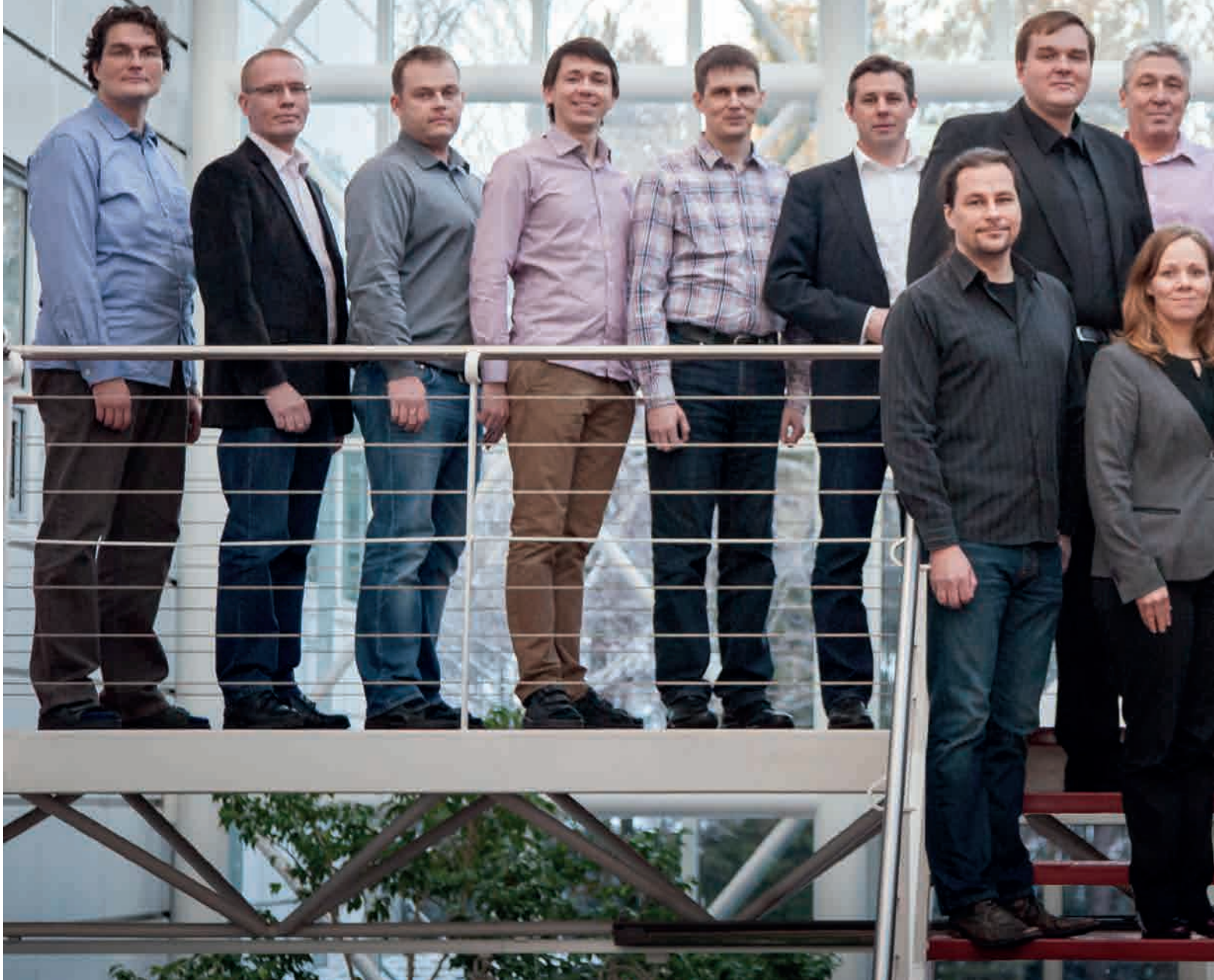## LEARN ABOUT THE WIDE PORTFOLIO

S. 18 ››

Real-Time Locating System

Based on Bluetooth® Low Energy
and Cloud Technologies.

- ✔ Real-Time Person Locating
- ✔ Nurse & Support Call
- ✔ Workflow Optimisation
- ✔ Staff Safety
- ✔ Patient Wandering
- ✔ Hands-free Access Control
- ✔ Asset Tracking
- ✔ Baby Tagging
- ✔ Hand Hygiene Monitoring

Welcome to 9Solutions!

Most innovations are born by applying latest technologies for solving emerging market needs. This was also the background for establishing 9Solutions Ltd – a clear understanding of healthcare market challenges and an in-depth knowledge about the possibilities of modern wireless and IT-technologies.

It was in the year 2009 when our founding team members came to the conclusion, that applying advanced Bluetooth® technology for real-time locating and combining it with advantages of modern cloud based service software can be used for improving security, safety and workflows in the healthcare environment.

Since our start, fulfilling customer needs has been our guiding philosophy. It has been also the driving force for our strong growth. Nowadays hundreds of applications have been delivered and our satisfied client base is spread over all continents. Our qualified partner network has been expanding gradually.

Also our international presence has been strengthened continuously. In 2013 we established our daughter company in Germany. From the location in the city of Düsseldorf 9Solutions GmbH serves our clients in the German speaking area. Further sales offices are in London, Stockholm and Helsinki.

In this brochure we are sharing with you customer experiences in different healthcare environments and provide you deeper information about the latest system features and product options.

We hope to welcome you as a satisfied 9Solutions customer in near future.

Best regards,
Michael Szücs
Director, Marketing & Business Development

Wireless system enabling real-time situational information.

9Solutions is manufacturer of modern healthcare safety and workflow optimization solutions for hospitals, care homes and home care environments.

9Solutions supports high quality healthcare services shifting safety of clients and personnel to a new level by use of real-time situational information.

Healthcare Challenges

The healthcare industry is facing different challenges – an aging population, increasing cost pressure as well as growing risks of violence due to abuse of drugs.

In year 2007, the old-age dependency ratio in Germany was 0.32, meaning that there were 100 workers for every 32 retired persons. The German government expects an increase of this figure to 0.5 by 2050 (Statistisches Bundesamt 2007). This trend is similar in most of the European countries.

Public sectors have major concerns with financing the care. Less money and fewer workforce are available to take care of healthcare services. Personnel costs represent the majority of the healthcare costs. The only way to solve this challenge is automating routine tasks and improving processes to let healthcare professionals focus on actual patient care.

Violent and aggressive incidents are one of the major causes of injuries in the health and social care sector. 43,1% of healthcare sector workers has been in a risk of facing threatening situations or physical violence during the last 12 months (TTK, The Centre for Occupational Safety, Finland, 2010).

WHY 9SOLUTIONS?

The patented Integrated Positioning and Communication System (IPCS) by 9Solutions enables healthcare professionals to focus on actual patient case by automating routine tasks. Simultaneously administration costs decrease due to real time situational information. Decision-making is speeded up and decisions are based on real facts thanks to the real time automated reporting.

✔ **One supplier:**
The 9Solutions system covers a wide range of security needs of the healthcare sector in one single solid solution.

✔ **Safety and workflow efficiency increase:**
9Solutions improves the quality of care as well as safety of patients and staff. Automation of routine tasks saves up to 30% of staff's working time.

✔ **Fast deployment:**
Deployment time of the 9Solutions system is typically 1/3 compared to competing solutions.

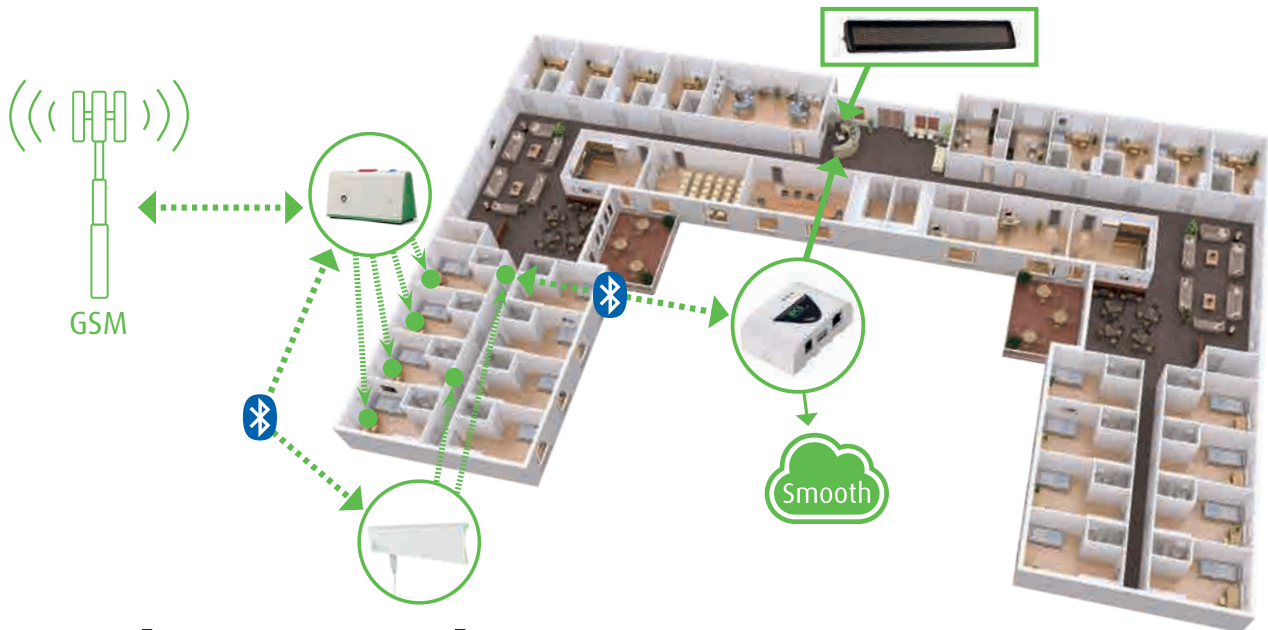✔ **Low investment and installation costs:**
Advanced Software as a Service (Saas) and robust self-organizing Node network keep investment and installation cost below 65% compared to competing solutions.

✔ **Low and predictable maintenance costs:**
Standardized Bluetooth® Low Energy technology ensures that costs of operation are only 10% compared to competing solutions. The solution includes 24/7 support.

✔ **High customer satisfaction:**
We offer premium products and support by striving for an encouraging atmosphere where customer satisfaction is the driving guideline for innovations.

GSM

Smooth

How does it work?

INTEGRATED POSITIONING AND COMMUNICATION SYSTEM (IPCS) BY 9SOLUTIONS

The Wireless Bluetooth® and Cloud* based Integrated Positioning and Communication System (IPCS) by 9Solutions enables safety and workflow optimization for healthcare professionals.

✅ A local wireless sensor network (9Solutions Node-network) is connected via a communication unit (9Solutions CCU) to the Internet and the 9Solutions Cloud.

✅ 9Solutions Nodes form a wireless, self-organizing network using standardized Bluetooth® technology ensuring a very reliable data transfer.

✅ The tracked objects are associated with 9Solutions RFID-tags. These 9Solutions Tags communicate wirelessly via the Node network with the 9Solutions system server.

✅ 9Solutions Tags and other registered Bluetooth® Low Energy devices (like Apple iPhone and iPad) can be tracked with extreme accuracy in the complete 9Solutions Node network area.

✅ 9Solutions Locating Service offers highest user convenience. This is ensured by using a combination of modern visualization- and HA-technology, permanent security back-ups as well as real-time functionality analyses.

✅ Other wireless elements of the 9Solutions system - like call units, bed sensors, different fixed call buttons and pull cords - are attached automatically to the basic Node network. Also the 9Solutions access control application is using the same network.

✅ Different corridor displays, local DECT systems, fire alarm systems etc. can be connected via the individual LAN network to the 9Solutions system.

✅ 9Solutions Smooth is the graphical user interface of the 9Solutions system. It enables users centralized administration of the system independent from any geographical location. 9Solutions Smooth can be used with nearly any Internet compatible device.

✅ 9Solutions Smooth controls all functions and features of the 9Solutions system. It allows users to maintain and manage asset and person databases, manage alerts and tasks, send and receive messages, perform searches, and print reports.

*) on request, also local installation of the system possible.

STAFF SAFETY

- Millions of healthcare workers are injured on the job each year. The healthcare industry spends billions on workers' compensation and related costs annually due to employee injuries and illnesses.

- Quality patient care is possible only when the staff's security and well-being at work is attended to. 9Solutions offers sophisticated staff safety features. 9Solutions Tags can be used as mobile panic buttons, fixed 9Solutions Call Buttons can be installed in strategically selected locations, and 9Solutions ID-Badge LWP can even send alarms automatically in man-down situations.

- Having a way to call other staff members before the situation escalates is very important – and getting help right on the spot when help is needed is mandatory. When the staff feels safe and secured in the working environment, both the work motivation and the atmosphere at the workplace will be ameliorated significantly.

WORKFLOW MANAGEMENT

- Utilization of assets, compliance with hygiene processes, utilization of treatment rooms, patient flow monitoring, time spent with patients, guiding patients from treatment room to another, asset management… All of these are daily challenges in hospital environments – and some are even critical to the safety of patients and staff. All of these are directly linked to the bottom line.

- 9Solutions real-time locating system offers real time awareness; process compliance, utilization data, safety and asset management can now be managed using a single solution. Records are always up-to-date, enabling fast, fact-based decision-making processes.

- The staff's valuable time is saved and they can focus on the most important thing: patient care.

Real-time situational information independent from current geographical location.

NURSE CALL

✅ Wired and wireless buttons of the 9Solutions Integrated Positioning and Communication System (IPCS) enable emergency and assistance calls everywhere within the premises. The client has the freedom to move around the premises freely, and in an emergency situation help is secured everywhere at all times.

✅ Emergency and assistance calls can be initiated by wearable 9Solutions Tags, fixed wireless 9Solutions Call Buttons, traditional cords ropes, mobile phones etc. In other words, all traditional methods are supported, and on top of that, new wireless locating based methods can be used freely alongside the traditional ones.

✅ Since the system is based on real-time locating, the location data is automatically included in the emergency or assistance call.

PATIENT WANDERING

✅ The 9Solutions system helps in giving people with dementia a chance to live their daily life in a humane way. The system monitors the clients' movements imperceptibly in real time. When they move in the permitted areas within the facility or in the yard, nothing happens – but if they exit the designated area, an automatic alarm is sent to the nursing staff according to the arrangements.

✅ The system enables also traditional door surveillance. The permitted areas can be specified for groups or even for individuals. They can also be set to certain times and days of the week. The system is discreet and allows clients to feel safe at all times while not feeling restrained by their environment. It also saves nurses more time to perform other tasks instead of constantly having to monitor the clients' movements in the premises.

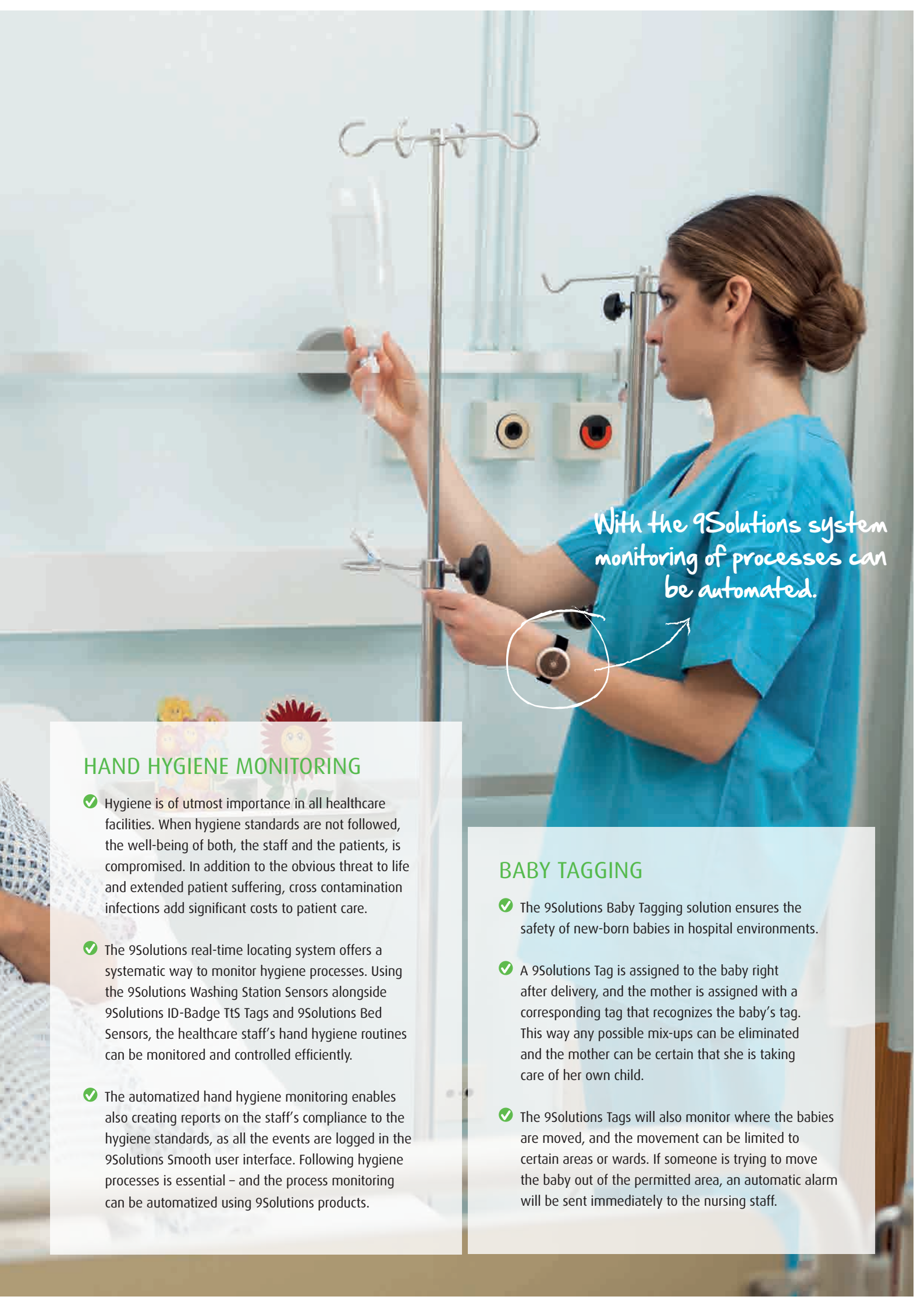*The system records the clients' movements unobtrusively and in real-time.*

HANDS-FREE ACCESS CONTROL

✓ The 9Solutions Access Control goes a step beyond conventional access control systems by combining hands-free operation, patient wandering protection and full featured personal safety solutions in a single infrastructure.

✓ The hands-free door operation system allows the staff to unlock a door simply by approaching it, when the member of staff is wearing an 9Solutions Tag. As the 9Solutions Gate communicates with the Tags wirelessly, no touch or sweep functions are required.

✓ All traditional access control features, such as operating automatic swing-doors, exit alarms, and door keypads are supported by the 9Solutions system, and third party devices can be linked to the system effortlessly.

ASSET TRACKING

✓ The 9Solutions Asset Tracking solution enables fast and efficient locating and protection of assets. With the 9Solutions system you can easily monitor the location and the usage of the assets as well as prevent asset thefts.

✓ Using the 9Solutions Smooth user interface, the staff can easily locate for example free wheelchairs or beds in a hospital environment, and also monitor whether the assets have been cleaned or repaired before they are put into use again.

✓ The wireless 9Solutions Asset Tags are robust and easily attachable to different kinds of assets. They have an alarm/notification button with easily programmable functions, and a tamper alarm option, which creates an alarm when the tag is detached from an asset. The battery life time of up to 10 years keeps maintenance efforts on a minimum level.

With the 9Solutions system monitoring of processes can be automated.
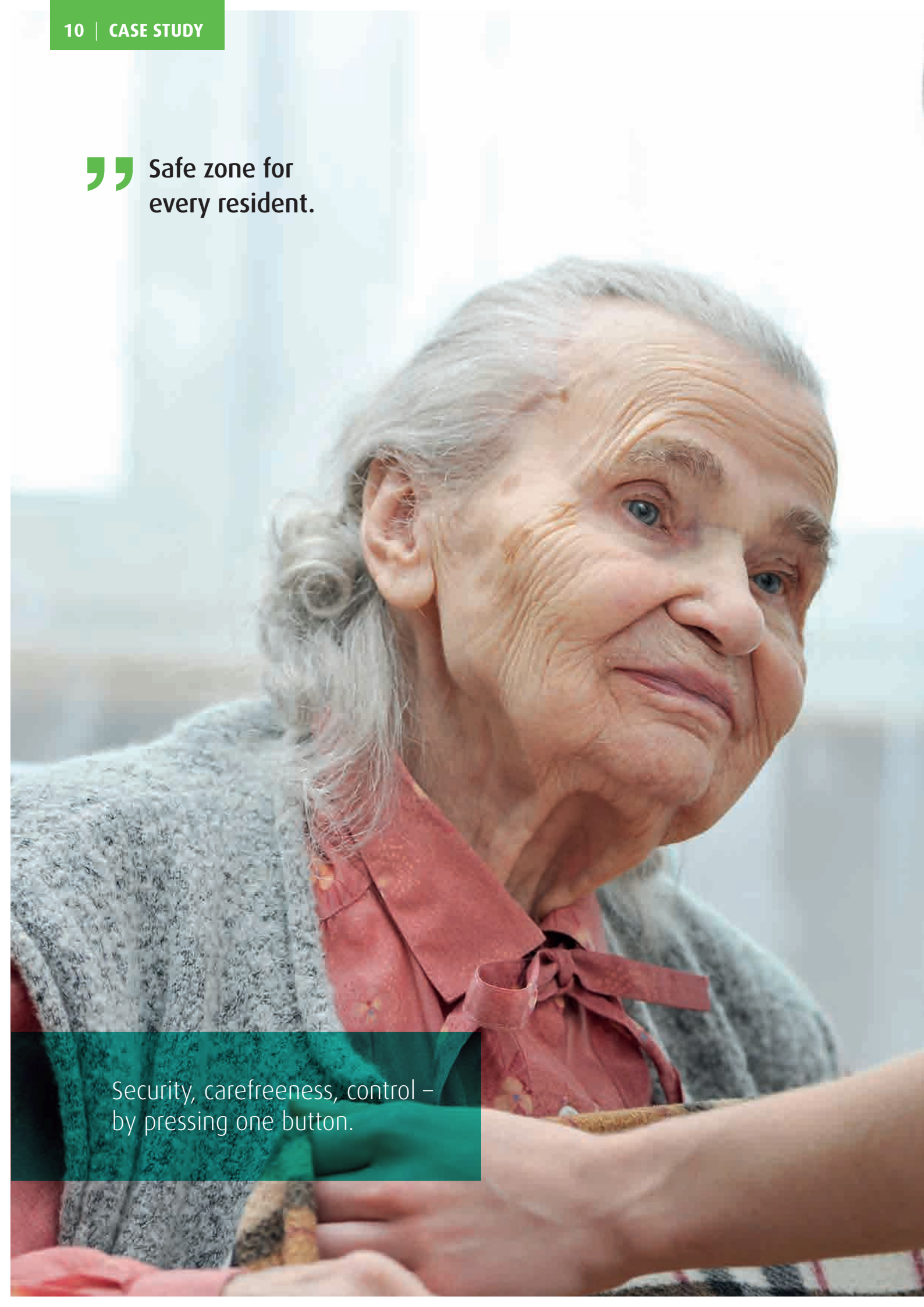
HAND HYGIENE MONITORING

✅ Hygiene is of utmost importance in all healthcare facilities. When hygiene standards are not followed, the well-being of both, the staff and the patients, is compromised. In addition to the obvious threat to life and extended patient suffering, cross contamination infections add significant costs to patient care.

✅ The 9Solutions real-time locating system offers a systematic way to monitor hygiene processes. Using the 9Solutions Washing Station Sensors alongside 9Solutions ID-Badge TtS Tags and 9Solutions Bed Sensors, the healthcare staff's hand hygiene routines can be monitored and controlled efficiently.

✅ The automatized hand hygiene monitoring enables also creating reports on the staff's compliance to the hygiene standards, as all the events are logged in the 9Solutions Smooth user interface. Following hygiene processes is essential – and the process monitoring can be automatized using 9Solutions products.

BABY TAGGING

✅ The 9Solutions Baby Tagging solution ensures the safety of new-born babies in hospital environments.

✅ A 9Solutions Tag is assigned to the baby right after delivery, and the mother is assigned with a corresponding tag that recognizes the baby's tag. This way any possible mix-ups can be eliminated and the mother can be certain that she is taking care of her own child.

✅ The 9Solutions Tags will also monitor where the babies are moved, and the movement can be limited to certain areas or wards. If someone is trying to move the baby out of the permitted area, an automatic alarm will be sent immediately to the nursing staff.

> Safe zone for
> every resident.

Security, carefreeness, control –
by pressing one button.

PROVIDING SAFETY FOR ELDERLY IN SERVICE HOME

The Yläkartano service home located in Pudasjärvi has more than 30 residents who are elderly people in a very poor condition. The effective housing service unit of Yläkartano is a safe home for the elderly, providing them with continuous care.

This is also ensured by the system of 9Solutions Oy, which was installed in the unit in spring 2013. The system also makes the work of the staff easier.

The 9Solutions system, increasing the safety of the service home's residents, covers the entire building. According to Matti Matero, IT administration manager of the Oulunkaari municipal federation, i.e. the maintainer of the service home, all residents have their own safety bracelets which the system uses to specify their location.

"A safe zone has been specified for all residents, and leaving the zone will automatically summon the nurse. In this way, the doors inside the home can be kept open, but the nurses need not check just to be on the safe side that none of the residents have left the zone. This means that the nurses can focus on the actual care work instead of having to run from place to place for nothing. The system also ensures that the safety of all residents is also retained if they exit the home by accident," says Matero.

By pressing the button in their bracelet, the elderly person can always summon the nurse. The nurses also use bracelets. With the bracelets, they can conveniently request help from their co-workers if they cannot lift an elderly person on their own. All alarms and requests are sent to the nurses' mobile phones and also appear on their computer screens.

According to Mr. Matero, Yläkartano is happy with the system of 9Solutions Oy, which is indicated by a recent evaluation. "The nurses reported that the system makes their work easier. Of course, the system requires some maintenance and updating as well as readiness to familiarise oneself with it. The residents of the unit also gave positive feedback on the system. They considered it to provide them with more safety because help can be summoned quickly," he says.
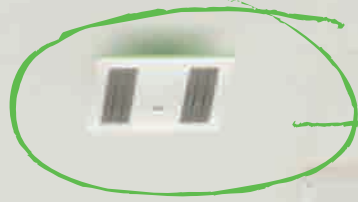
From now on, the municipal federation wants to develop Yläkartano towards the direction of assisted housing services. At the same time, elderly people in a slightly better condition than the existing ones would become residents of the home. The 9Solutions solution is very suitable for that purpose.

According to Yläkartano, 9Solutions Oy's solutions have also been installed in a number of other units of the municipal federation. The federation arranges and provides its the statutory healthcare and social services, as well as a number of other services, for its member municipalities: Ii, Pudasjärvi, Simo, Utajärvi and Vaala.

„„ Our staff have been
happy with the system.

Cost-efficient solution for
fluent work processes.

Effortless installation of the wireless system network.

OULU UNIVERSITY HOSPITAL
PROTECTING STAFF AT HIGH RISK PLACES

Oulu University Hospital has installed the nurse call and personal safety system from 9Solutions Oy in some wards of the hospital. For security reasons, the hospital does not want to specify which wards or how many wards have the system.

However, Jorma Korhonen, safety manager of the Northern Ostrobothnia Hospital District, says that the 9Solutions system has first been employed in those locations and wards which had the most urgent need for and were lacking a technical security system, and which such a system was suitable for.

"Our staff have been happy with the system. It has been reliable and easy to use. Also, installation of the system in cooperation with the hospital's technical services has been implemented smoothly. Before the installation, we considered in advance how well it suits the hospital's complex infrastructure, but there were no problems here," says Mr Korhonen.

According to Mr Korhonen, setting up the 9Solutions system in the selected wards was the second stage of installing the system at the hospital. The first step consisted of installing the system's safety buttons at the cash registers in the hospital's cafés and restaurants. Pressing a safety button triggers an alarm in the hospital control room and alerts the guards.

"The cafés and restaurants were selected for the pilot scheme because they have a lot of visitors and many kinds of things can

happen. The total number of pilot locations was six. Now the system is permanently in place, providing security to the staff," he says.

Following the pilot, the 9Solutions solution was extended to cover a few wards where a safety button is now available for the nurses. Mr Korhonen does not want to give any details about the buttons, but the buttons are fitted in selected locations on fixtures, and the nurses also carry them on a bracelet, for example.

"The safety button allows nurses to trigger an alarm in the hospital's control room and to summon a guard to the site. In addition, the nurse can summon a co-worker if he or she needs help while performing a procedure, for example," he says.

According to Mr Korhonen, the solution provided by 9Solutions Oy has improved the work safety of the staff and increased the feeling of security, even though actual emergencies causing an alarm have fortunately been rare.

The hospital has obtained a good experience of the 9Solutions solution and is considering expanding its use. A further goal is to test the 9Solutions system in helping logistics, i.e. to find out whether the solution can also be used for tracking the movement of specific items and equipment.

II HEALTH CENTRE,
JOINT MUNICIPAL AUTHORITY OF OULUNKAARI

RAPID ASSISTANCE
FOR HEALTH-CARE STAFF

9Solutions supplied a nurse call and staff attack system for the reception facilities and mental health clinic at the Ii Health Centre in Oulunkaari. The system was installed in conjunction with a renovation and extension project to improve staff security and ensure a smooth workflow.

Employees at the Ii Health Centre are now wearing security bracelets with a button they can use to call for assistance. Alarm buttons are also located on walls and tables. Nurses may need emergency assistance when performing procedures on patients or when a patient is acutely deteriorating. Sometimes patients can cause dangerous situations and even attack employees.

In addition, buttons have been installed in procedure, toilet and other facilities to enable patients to call for a nurse. At the mental health clinic, employees can also use the bracelet to call for a security guard.

"However, security guards are not based in the same building, so the opportunity to receive emergency assistance from colleagues is extremely important," says Matti Matero, Chief Information Officer for the Joint Municipal Authority of Oulunkaari, which runs the Ii Health Centre.

Alarms and requests for assistance are displayed on the mobile phones of the employees at reception and the mental health clinic and on the information screen at the reception facilities.

According to Matero, 9Solutions was selected as the supplier because it provided a wireless system, among other reasons.

"We wanted to gain experiences of a wireless solution. It can be installed without adjusting the structures of the building, which seems cost-effective and practical. Scalability was important as well."
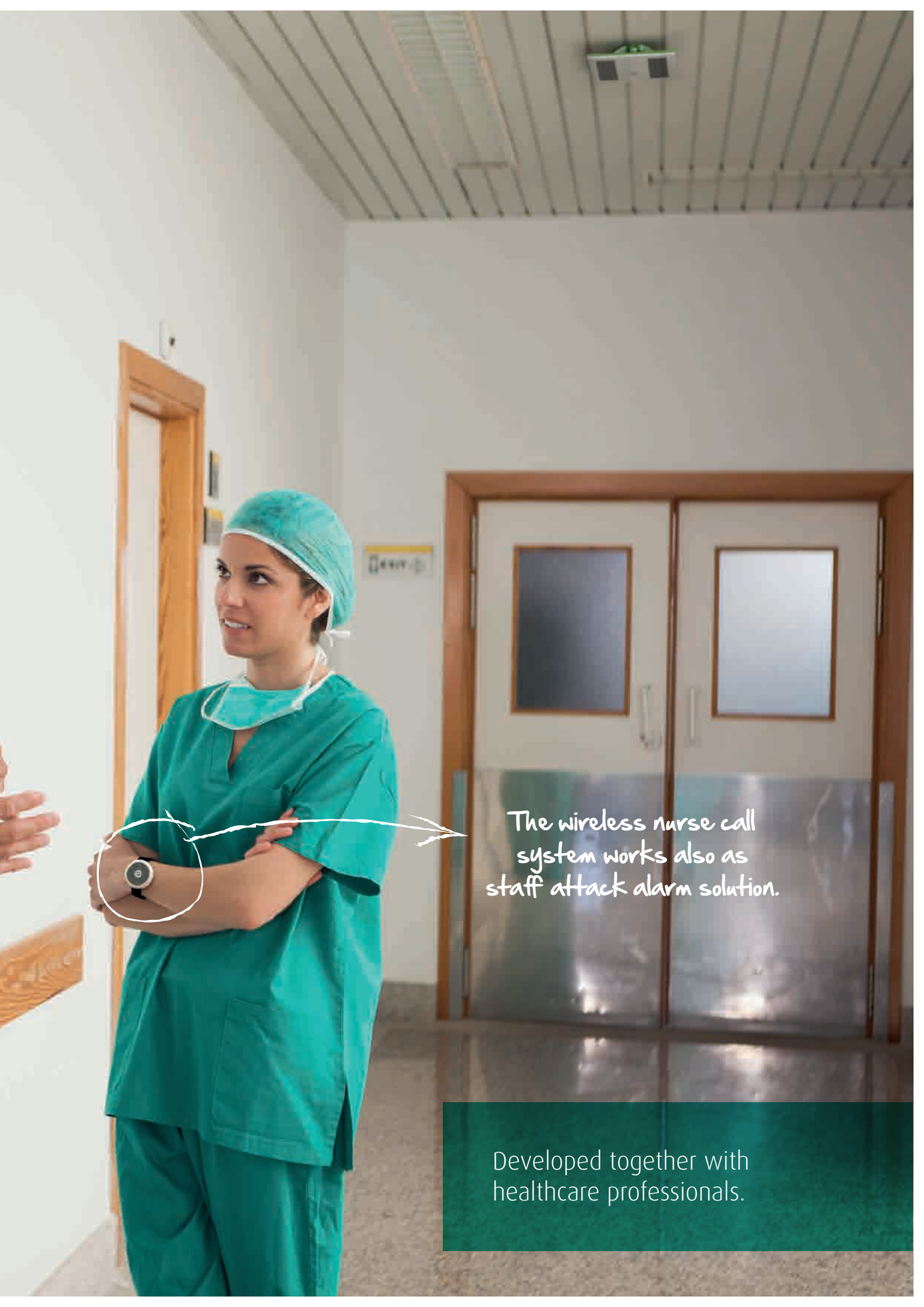
The benefits of a wireless solution were particularly evident when the mental health clinic was preparing to move to new facilities. The nurse call and staff attack system was installed in the temporary facilities where the clinic operated during the renovation. When the new facilities were completed, the components of the 9Solutions system – such as compact base stations and alarm buttons – were easy to transfer to their new locations.

"Wirelessness brought significant benefits. Overall, our employees were very happy with the system supplied by 9Solutions," says Matero.

The Joint Municipal Authority of Oulunkaari organises and provides statutory social and health-care services and other services for its member municipalities: Ii, Pudasjärvi, Simo, Utajärvi and Vaala. 9Solutions has supplied solutions to several of its units, in addition to the reception facilities and mental health clinic at the Ii Health Centre.

" Wirelessness brought significant benefits.

The wireless nurse call
system works also as
staff attack alarm solution.

Developed together with
healthcare professionals.

VILLA OTSOLA, KOTKA

NURSE CALL AND ROOM DEVICE SERVE THE ELDERLY

Villa Otsola, based in Kotka, is a modern care home, providing the elderly with effective service housing in a modern, safe environment. The nurse call system from 9Solutions Oy is a solution which increases the level of security at the home; the system was already installed in Villa Otsola at the construction stage. The system is supplemented further by room devices which are placed in the rooms of the elderly and enable a telephone connection.

Henna Koljonen, director of the home, says that the 9solutions system lets the residents summon a nurse at any time. When the resident presses the button on their bracelet, the nurses are informed that the resident needs help. The system, based on Bluetooth technology, identifies residents who need help, and specifies their location in the building even if the resident is not in their room. In this way, the nurse will always be able to find the resident who pressed the button as quickly as possible.

The 9Solutions solution installed in Villa Otsola also includes a room device in every resident's room.

"The room device on the table is very easy to use and enables a voice connection between the nurses and the resident. When an alarm is received from the room via the 9Solutions system, the nurse can activate the connection to the room device and ask the person what the problem is. In the same way, the resident can use the device to call the nurse's mobile phone," says Koljonen.

The room device has a SIM card and the device also functions as a regular phone. It is possible to store phone numbers in the device, and calls from these numbers can be made to the device. In this way, relatives can directly call residents – usually their father or mother – at Villa Otsola. The device accepts calls automatically, which means that it is also easy to use for people with a physical disability.

"The relatives like the phone feature. It is much more convenient to reach the elderly when the calls need not be made through nurses," says Koljonen.

The residents of Villa Otsola have found it easy to learn to use the 9Solutions system, which is as simple as possible. The staff says that the system makes their work easier.

Villa Otsola, built and maintained by Mediverkko Oy, was completed in early August 2013. Almost all residents of the home for the elderly are suffering from memory-related illnesses. Villa Otsola has 61 residents in total.

" " The residents' relatives
like this feature.

Up-to-date 24/7.

The easy to use nurse call unit enabales
remote communication between the
inhabitant and the nursing staff.

9SOLUTIONS PRODUCTS

uTAG WITH CLIP

- Waterproof person tracking Tag with highlighted button.
- Built on Bluetooth Low Energy.
- Battery lifetime typically 1-2 years. Time varies based on actual use case.
- Tracking interval options: 15 or 45 seconds.
- Wearing options: clip.

PRODUCT OPTIONS	PRODUCT CODES
9Solutions uTag (15 s) with clip	9S-TAG-02-01
9Solutions uTag (45 s) with clip	9S-TAG-03-01

eTAG

- Waterproof person tracking Tag with highlighted button.
- Compatible to 9Solutions Gate access control.
- Built on Bluetooth Low Energy.
- Battery lifetime typically 1-2 years. Time varies based on actual use case.
- Tracking interval automatically adapts between 0 seconds to 5 minutes based on location, use case and motion of tag.
- Wearing options: Lanyard, wrist and clip.

PRODUCT OPTIONS	PRODUCT CODES
9Solutions eTag	9S-TAG-05-01

ASSET TAGS

- Asset Tag for tracking, monitoring and reserving valuable assets.
- Valuable items equipped with the Asset Tag can be accurately tracked as well as noticed if they are being used without permission.
- Built on Bluetooth Low Energy.
- Battery lifetime up to 10 years with CR123A battery.
- Tracking interval 60 seconds, TtS option: 10 seconds.
- Optional Touch-to-Sign (TtS) feature for reserving assets or collecting process data simply by touching the Asset Tag with any Touch-to-Sign enabled IPCS device.
- Automated alarm, if Tag is removed from Asset.
- Motion switch, enabling automated power on/off.
- Waterproof up to 1 meter (IP67)
- Cleanable using alcohol based cleansing agent.

PRODUCT OPTIONS	PRODUCT CODES
9Solutions Asset Tag (60 s)	9S-TAG-02-02
9Solutions Asset Tag TtS (60 s)	9S-TAG-03-02

ID-BADGES

- ID-Badge TtS: with 5 programmable buttons and Touch-to-Sign feature which enables user to reserve asset or report start/stop times of task simply by touching any Touch-to-Sign enabled IPCS device.
- ID-Badge LWP: Lone Worker Protection Tag is a solution for a real-time location tracking of people. ID-Badge LWP is especially designed for lone workers providing multiple alarm options, like automatic man-down alarms.
- Built on Bluetooth Low Energy.
- Shipped with Lanyard.
- Tracking interval 10 seconds.
- Power supply: Shipped with USB charging cable. AC charger available as an option.

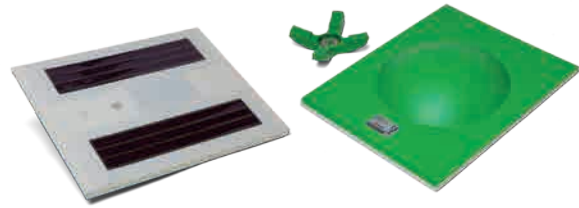| PRODUCT OPTIONS	PRODUCT CODES
9Solutions ID-Badge TtS (10 s)	9S-TAG-02-04
9Solutions ID-Badge LWP (10 s)	9S-TAG-02-05

CELL COMPUTER UNIT CCU

· Gateway between IPCS network and IPCS Compass.

· Easy set up by inserting the provided Activation Key, connecting the Ethernet cable and powering the unit up.

PRODUCT OPTIONS	PRODUCT CODES
9Solutions CCU	9S-CCU-01-01

ZERO NODE

· 9Solutions Nodes form a wireless self organizing Bluetooth network enabling real time locating of 9Solutions Tags or other registered Bluetooth devices.

· Communication distance from 7.5 to 15 m depending on building construction.

· Indoor usage.

· Installation without cables.

· Powered by solar panel.

PRODUCT OPTIONS	PRODUCT CODES
9Solutions Zero Node	9S-NOD-05-01

UNIVERSAL NODE

· 9Solutions Nodes form a wireless self organizing Bluetooth network enabling real time locating of 9Solutions Tags or other registered Bluetooth devices.

· Communication distance from 7.5 to 15 m depending on building construction.

· Indoor usage

PRODUCT OPTIONS	PRODUCT CODES
9Solutions Universal Node	9S-NOD-02-01
9Solutions Universal Node with backup battery	9S-NOD-02-06

SENSOR NODE, ANALOG

· 9Solutions Nodes form a wireless self organizing Bluetooth network enabling real time locating of 9Solutions Tags or other registered Bluetooth devices.

· Communication distance from 7.5 to 15 m depending on building construction.

· Indoor usage.

· Including one input/output connection.

PRODUCT OPTIONS	PRODUCT CODES
9Solutions Sensor Node, Analog	9S-NOD-02-02
9Solutions Sensor Node, Analog with backup battery	9S-NOD-02-07

OUTDOOR NODE

- 9Solutions Nodes form a wireless self organizing Bluetooth network enabling real time locating of 9Solutions Tags or other registered Bluetooth devices.
- Communication distance from 7.5 to 15 m depending on building construction.
- Outdoor usage
- Shipped with 2m cable

PRODUCT OPTIONS	PRODUCT CODES
9Solutions Outdoor Node	9S-NOD-02-05
9Solutions Outdoor Node with backup battery	9S-NOD-02-09

CALL UNIT

- Call Unit connects to a wireless 9Solutions Bluetooth network enabling real time locating of 9Solutions Tags or other registered Bluetooth devices.
- Call Unit enables a two way voice communication between resident/patient and carer using GSM network and 9Solutions Android application (Available in Google Play).
- Supports family to resident/patient calls.
- Two remotely programmable buttons to make and manage calls.

PRODUCT OPTIONS	PRODUCT CODES
9Solutions Call Unit Basic	9S-NOD-03-01-01
9Solutions Call Unit Homecare + eTag + wristband	9S-NOD-03-01-02

GATE & GATE STANDALONE

- Locating registered 9Solutions Tags or other registered Bluetooth devices when arriving near Gate.
- Locating accuracy down to 2 meters.
- Integrated sligh motion detection PIR sensor: Angle 101 deg., detection distance 2-3 meters.
- Two potential free relay outputs and two potential free inputs.
- Backup battery. IPCS Gate work up to 24 hours without external power.
- Wide supply votage range: 12-30 V DC, automated supply voltage level detection.
- Integrated notification buzzer.
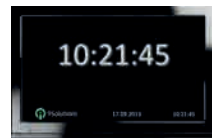
PRODUCT OPTIONS	PRODUCT CODES
9Solutions Gate	9S-ACC-01-18
9Solutions Gate, Stand-alone	9S-ACC-01-25

DISPLAYS

- 3-color LED wall display
  - LED-wall display with buzzer.
  - Time display.
  - Shows up to 8 simultaneous notifications chained.
- High Definition wall display
  - Time and date display with notification tone.
  - Priorisation of notifications.
  - Supports both horizontal and vertical installation options.
  - Displays up to 8 simultaneous notifications. Text size is automatically adjusted to optimal size.

PRODUCT OPTIONS	PRODUCT CODES
3-color LED wall display	9S-ACC-01-01
22" High Definition IPCS Wall Display + mounting kit	9S-ACC-01-23

SEEK **NO MORE**
IPCS by 9Solutions.

The 9Solutions real-time locating system is fully scalable. The system includes several standard service packages which can be extended by additional service packages. Depending on the application requirements the system owner is flexible to selective service packages needed for the individual system.

STANDARD SERVICES

PRODUCT OPTIONS	PRODUCT CODES
9Solutions SaaS Support and Maintenance	9S-SUB-02-05
9Solutions Locating Service	9S-SWL-03-01
9Solutions Event Log and Reports	9S-SWL-01-04

OPTIONAL SERVICES

PRODUCT OPTIONS	PRODUCT CODES
9Solutions Dementia Care	9S-SWL-01-02
9Solutions Activity Monitoring	9S-SWL-01-03
9Solutions Emergency and Assistance Calls	9S-SWL-01-01
9Solutions Baby Tagging	9S-SWL-01-05
9Solutions Asset Tracking	9S-SWL-01-06

SAAS SUPPORT AND MAINTENANCE

- Access to 9Solutions IPCS Smooth graphical user interface.
- Always up-to-date software version. In average 8 new releases annually.
- Software maintenance managed by 9Solutions.
- Automatic security back-up of data.
- 24/7 system performance monitoring.
- 24/7 support help desk via e-mail and phone.

PRODUCT OPTIONS	PRODUCT CODES
Annual Support and Maintenance Fee	9S-SUB-03-01

LOCATING SERVICE

- Real-time locating of persons and assets.

PRODUCT OPTIONS	PRODUCT CODES
9Solutions Locating Service	9S-SWL-03-01

EVENT LOG AND REPORTS

- Storing all the events in an easy-to-read Event Log.
- Additional notes or comments can be added to all events by using
  - the 9Solutions Smooth graphical user interface or
  - the 9Solutions Android, iPhone and iPad applications.
- Events can be searched and filtered easily based on person, alarm type, location, time or date.
- Graphical and text based reports.

PRODUCT OPTIONS	PRODUCT CODES
9Solutions Event Log and Reports	9S-SWL-01-04

DEMENTIA CARE

- Giving people with dementia a chance to live their daily life in a humane way.
- Monitoring the clients' movements imperceptibly in real time.
- No alarm when dementia patients move in the safe areas within the facility or in the yard.
- Automatic alarm is sent to the nursing staff according to the arrangements when dementia patients exit the designated area.
- Door surveillance specifying permitted areas for groups or even for individuals, e.g. according to certain times and days of the week.

PRODUCT OPTIONS	PRODUCT CODES
9Solutions Dementia Care	9S-SWL-01-02

BABY TAGGING

- Ensuring the safety of new-born babies in hospital environments.
- Assigning the baby and the mother with corresponding tags recognizing each other eliminating mix-ups.
- Monitoring where the babies are moved.
- Limitation of baby movement to certain areas or wards.
- Automatic alarm will be sent immediately to the nursing staff, if someone is trying to move the baby out of the permitted area.

PRODUCT OPTIONS	PRODUCT CODES
9Solutions Baby Tagging	9S-SWL-01-05

ACTIVITY MONITORING

- Activity profiles of people wearing 9Solutions Tags can be monitored and recorded in real time.
- Enabling preventive actions, if a person's activity level drops over time.
- Keeping a record of personal activity profiles allows the nursing staff to react proactively, if the physical condition of a person is weakening.
- Alarm notifications to staff, if a protected person is leaving his/her bed, so that the staff can react to it quickly and go assist the person.
- Alarms activity definition, e.g. which times and days of the week the alarm is active.

PRODUCT OPTIONS	PRODUCT CODES
9Solutions Activity Monitoring	9S-SWL-01-03

ASSET TRACKING

- Fast and efficient locating and protection of assets.
- Easily monitoring of the location and the usage of the assets, e.g. locating free wheelchairs or beds.
- Status check whether the assets have been cleaned or repaired before they are put into use again.
- Alarm/notification button with easily programmable functions.
- Tamper alarm option, which creates an alarm when the tag is detached from an asset.

PRODUCT OPTIONS	PRODUCT CODES
9Solutions Asset Tracking	9S-SWL-01-06

EMERGENCY AND ASSISTANCE CALLS

- Wired and wireless buttons enable emergency and assistance calls everywhere within the premises, e.g. for wearable 9Solutions Tags, fixed wireless 9Solutions Buttons, 9Solutions Call Units, traditional pull cords and mobile phones.
- Location data is automatically included in the emergency or assistance call. This way the nurses on call can locate and help the client more efficiently.

PRODUCT OPTIONS	PRODUCT CODES
9Solutions Emergency and Assistance Calls	9S-SWL-01-01

9Solutions

www.9solutions.com