



System
Integration
in

harmony



SIMPHONY on-line guard tour system

Use the security service to the most

In general, a guard tour system is a tool for checking the rounds of the security service or in-house security officers. It is important for the client or the user that the patrol should perform their duties faithfully enough to fulfil their main purpose, i.e. to visit in person and check given places at given points in time.

A classical guard tour system usually contains such elements as checkpoints, personal chips, readers, an interface and software. The patrol do the rounds of the chips; on putting the reader to a chip, the reader records an entry (date, time, chip ID). The number of records is limited, depending on the type of the reader; usually the reader can hold thousands of records. Then, after several days or even weeks after the first round, it is necessary to empty the reader to a PC. Usually, this is what the interface (the reader needs to be brought to the PC) or a transmission chip does. This gives rise to one of several disadvantages: it is necessary to have two readers for more distant locations so that the full reader could be exchanged for an empty one. For further comparison see the table on the next page.

SIMPHONY on-line guard tour system is an original system developed and provided by TTC TELSYS. It contains checkpoints, readers and software, too. Nevertheless, the patrol terminals are implemented by mobile phones with the built-in NFC (Near Field Communication) technology. The chips are contactless RFID identifiers. When the reader is brought near the chip, circa 1-3 cm, the chip is read in and

a record is made. Moreover, if the phone is connected to GSM or Wi-Fi, the record is sent to the system immediately. The display shows important information about the round being done (name of the place checked, starting time of the round, expected time for the move to the next checkpoint, tasks related to the current checkpoint etc.).



The application uses a standard web browser

The patrol can keep in touch with the controller, the movements of the patrol can be tracked. In case of danger it is possible to activate an emergency button and call for help. Each checkpoint can have tasks assigned to be performed by the patrol. In performing them, the patrol can even record data (e.g. operational data) and send them on-line into the system in real time.

Several patrol routes can be defined in the system. One of them can be chosen automatically at random and assigned to a patrolling security officer. Thus, until the very last moment, he does not know which route he will take, which enhances security compared to repetitive routes, which can be taken into account by an intruder, e.g. a burglar.

The reader can be used for instructing the patrolling security officer to do an unscheduled round and monitoring its course. The system can alert the security officer that the time for a scheduled round is drawing near.

The on-line guard tour system is designed to be included into a larger,

integrated system solution. This solution is provided by TTC TELSIS, a.s. under the name SIMPHONY.

Besides guard tour systems, middle-sized and large plants have other systems in place, such as intrusion detection systems, fire alarm systems, surveillance systems, calling systems, measurement & control systems etc. These can be connected to our guard tour system to ensure quicker reaction to an incident and its escalation. Moreover, all information is directed to a selected control post that surveys all the systems at once.

Thus, the SIMPHONY solution integrates inputs from each device to direct the further flow of information to a specified decision-making levels according to a pre-defined scenario. It uses escalation processes and its reporting function makes possible to trace back who responded to a particular event and how. Following the SIMPHONY solution that evaluates the current state of integrated security technologies, the calling system ensures an immediate response to pre-defined events, enhancing the effectiveness of the security measures.

| Comparison of the systems | Classical system | SIMPHONY on-line guard tour system |
|--|---|---|
| Reader capacity | 1000–3000 records | Unlimited |
| Data unload method | By a transmission chip (small capacity) or by a cable | By wireless connection to GSM or Wi-Fi |
| Operating software | Special software needs to be installed | Common internet browser |
| Mode of operation of the reader | Offline | Both online and offline |
| Up-to-dateness of data | Dependent on the frequency of unloading, even several weeks old | Transmitted in real time, 100 per cent up-to-date |
| Evaluation of a round | After the upload of data | Immediately, in real time |
| Possible loss of data | YES | NO |
| Chip reading method | Contact | Contactless |
| Possibility of an electric static discharge between the reader and the chip (possibly causing the reader to "freeze") | YES | NO |
| User-defined tasks for the patrol | NO | YES |
| Random patrol route | NO | YES |
| Notification/prompt for the patrolling security officer to take an action/do a round | NO | YES |
| Emergency button on the reader | NO | YES |
| Use of the reader as a communication device | NO | YES |
| Reception of alarms from other security systems (intrusion detection system, fire alarm system, CCTV etc.) by the reader | NO | YES |
| Displaying the map of the premises on the reader | NO | YES |

This can be demonstrated by the following example:

The security guard at a plant are equipped with the on-line guard tour system. Thanks to the SIMPHONY platform, also the access control system, the webcam system and the IDS and FAS control units are integrated. One of the sensors detects a security breach, raising an alarm at the control panel.

The SIMPHONY system checks other sensors in the concerned area to find whether the alarm is not a false one. Furthermore the access control system is checked automatically. By identifying the sensor that has raised the alarm and the access unit that has been breached, the system can find the place where the security breach has taken place. It automatically sends a security officer there to check the area. At the same time, the controller sees on the display only the scenes taken by the cameras in the relevant area. Having found the intrusion and raised a silent alarm by pressing the alarm button on the reader, the patrolling security officers wait for instructions to be displayed on the reader.

