RFID solution

For hospital

RST INVENT

COVID-19

In 2020, the entire world community was faced with a serious enemy - the coronavirus infection Covid-19. This acute respiratory infection is a dangerous disease, the specific complications of which may entail the risk of death.

Every day the virus infects more and more medical workers. This trend can lead to sad consequences for the entire population of the country.

Therefore, in order to avoid infection of medical personnel, the preparation of hospitals for work with coronavirus infection should include strict measures to control the use of PPE and medical equipment in medical units where infected patients are located.

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RFID for infectious departments of hospitals

Organization of an automated RFID system begins with the labeling of each element of the anti-plague suit with RFID tags. All the strategically important nodes of the department are equipped with RFID equipment, and the corresponding software is integrated into the hospital information system.

The RFID solution provides:

1. Automatic recording of PPE and control of completeness anywhere in the hospital

2. Identification of the health worker equipped in a protective suit

3. Online monitoring of employee movements

4. Monitoring compliance with working hours

5. Monitoring the movement of medical instruments

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RFID Application Capabilities

Personal Protective Equipment Labeling with RFID tags

- Monitoring the completeness of PPE anywhere in the hospital

- Automatic recording of PPE

- Life Cycle Monitoring and Service Control of PPE Elements
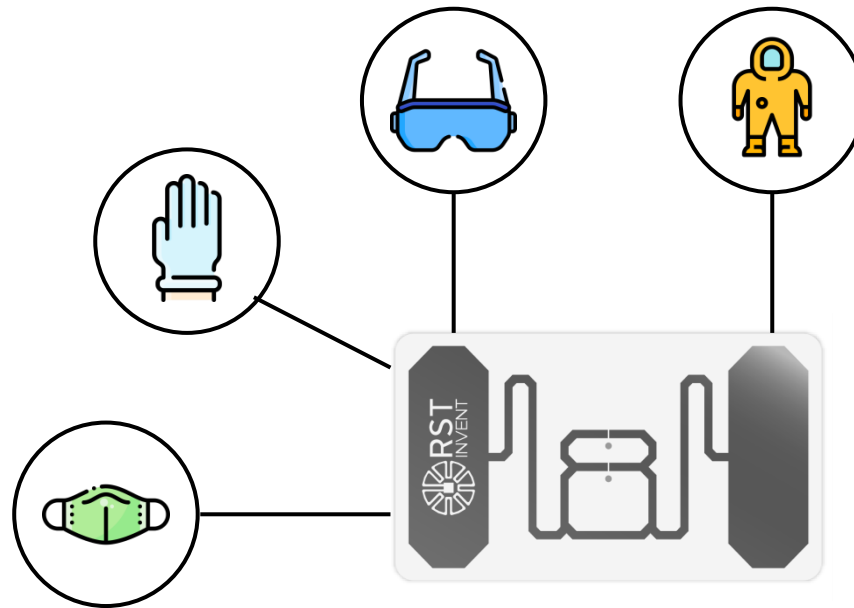
RFID Application Capabilities

Medical Personnel Identification

Using an RFID printer, self-adhesive label-badges are printed with information about the medical officer (name, job title, date, etc.) duplicated in the memory of the RFID tag.
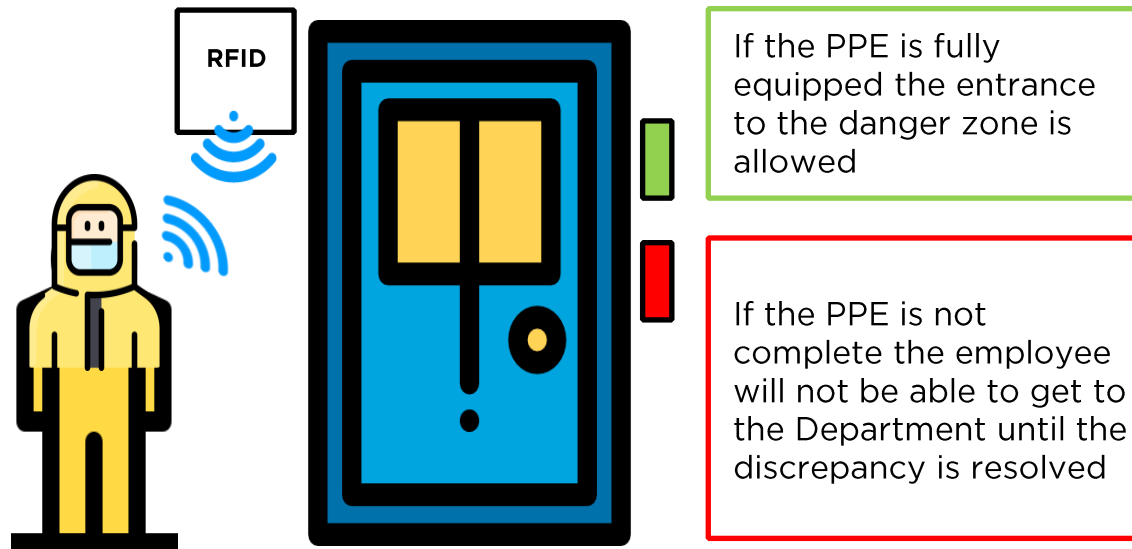
The badge provides both visual identification of the employee of the hospital, and electronic, and allows you to track his movement in the danger zone.
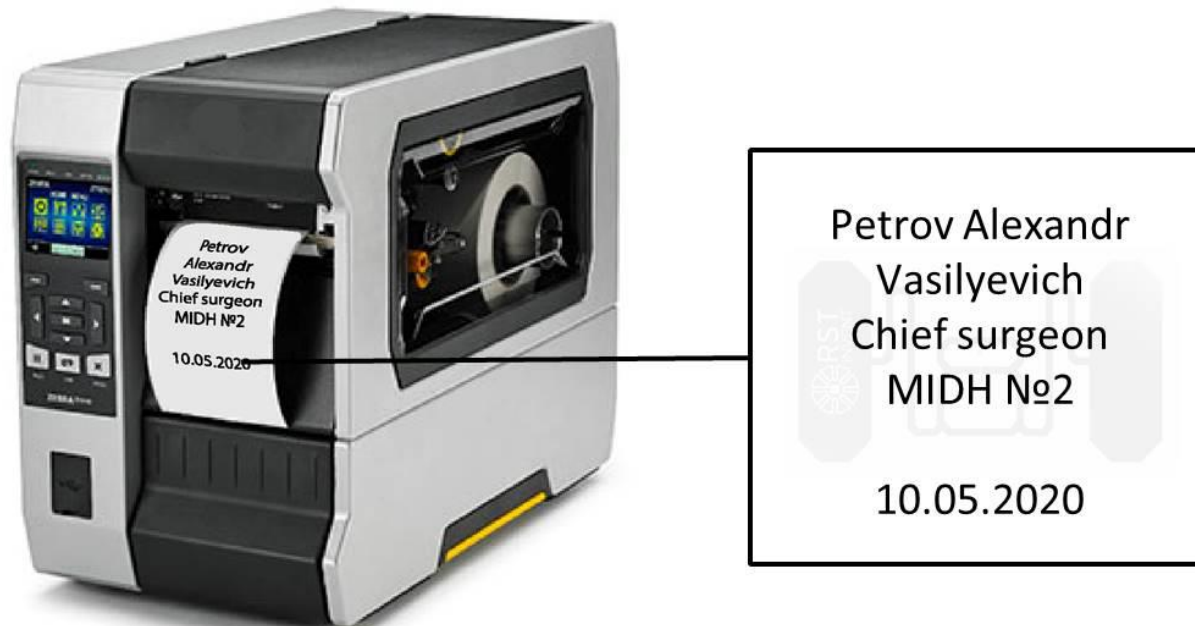
RFID Application Capabilities

Organization of RFID access control systems

- Controlling personnel access to the danger zone

- Preventing violations of safety

- Monitoring staff time in a hazardous area

RFID

If the PPE is fully equipped the entrance to the danger zone is allowed

If the PPE is not complete the employee will not be able to get to the Department until the discrepancy is resolved

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Staff movement map

The information system records the route of the medical officer and his time in the department

	Petrov Alexandr Vasilyevich	
	Chief surgeon	
Time	Place to visit	
08:00	Entrance	
08:15	Chamber 1	
08:27	Chamber 19	
08:40	Chamber 18	
08:46	Chamber 14	
09:00	Surgery	
11:40	Chamber 8	
11:46	Chamber 2	
12:00	Staff room	
12:31	Exit	
Total time	04:31	

RFID Application Capabilities

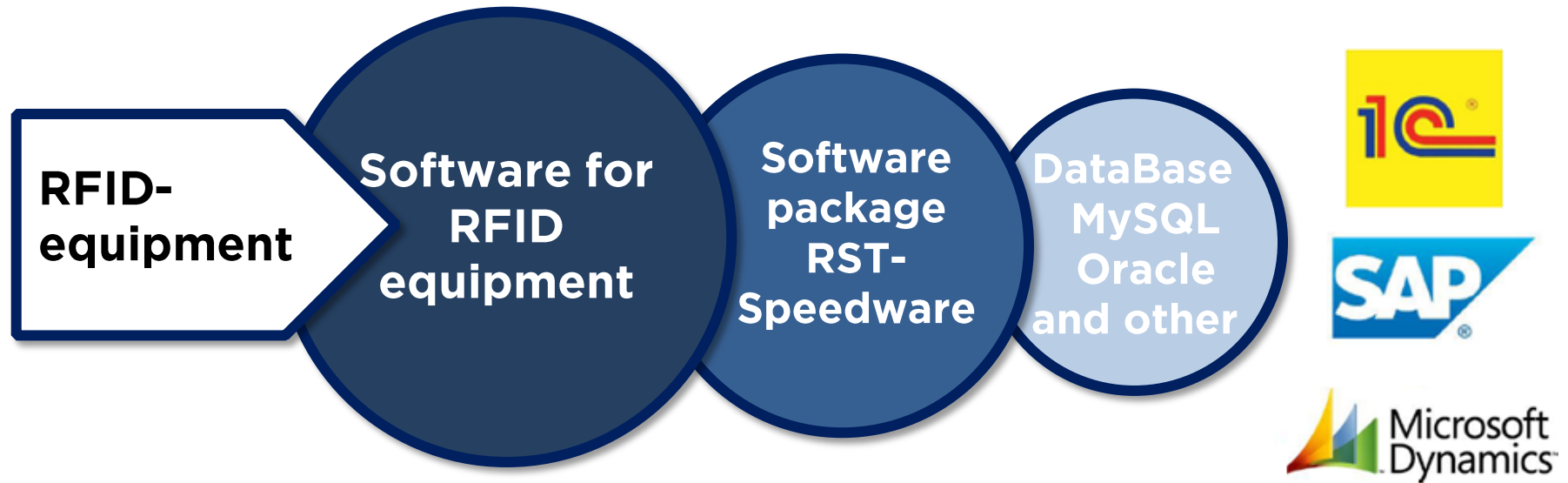**Monitoring of the movement of medical instruments**

RFID-tagged surgical instruments are identified on the smart desktop of a medical professional (data on the equipment provided is recorded in the IP).

After the operation is completed, all instruments are placed in an RFID container, where the kit is checked for completeness, and sent for sterilization.

- Surgical kit configuration control

- Identification and inventory of tools before and after the procedure

- Sterilization control

- The number of sterilization cycles control

Software architecture of the RFID solution

RFID-equipment

Software for RFID equipment

Software package RST-Speedware

DataBase MySQL Oracle and other

Company introduction

RST-Invent – is a Russian RFID-tags and equipment vendor, RFID-system and software developer.

Work experience since 2005

Own RFID-tags and equipment facilities in the Leningrad region

Geographic reach: RF, USA, Asia, Europe

A full cycle of competencies in RFID: from the development of the element base to the implementation and maintenance of ready-made solutions

"RST-Invent" company - is part of the Group of "Systematic"

GCS

Contact information

Saint-Petersburg
Nepokorennikh pr., 49,
office 701

+7 (812) 318-17-17

Moscow
str. Nametkina, 10A,
building. 1, office 112

+7 (495) 640-78-48

✉ **info@rst-invent.ru**

🌐 **www.rst-invent.ru**