

RFID solutions

for inventory of fixed assets



Inventory of fixed assets

According to the Order of the Ministry of Finance of the Russian Federation from 13.06.1995 No. 49 (ed. From 08.11.2010) "On approval of Methodological guidelines for the inventory of property and financial liabilities" each company is required to conduct an inventory of fixed assets at least once a year.

The inventory will show reliable information about the existing property, its condition, and the availability of necessary documentation.

Discrepancies between the actual availability of property and accounting data revealed during inventory can cause the company great losses, and in some cases lead to the imposition of administrative or criminal liability.

Automation of inventory of fixed assets will reduce the company's losses by eliminating errors during inventory.



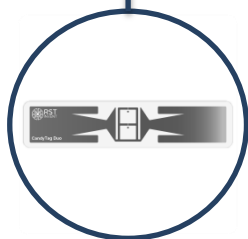
Benefits



- Fully automated processes
- Quick accounting
- Quick inventory and picking verification
- Reduced labor use
- Operational control
- Online item search, even if it is out of sight
- Movement control, automatic registration, security notification in case of removal of an item
- Authentication
- All logistic processes are carried out promptly and automatically.
- Human factor excluded
- The received data is compared with information in the accounting system

RFID tags

Tags for dielectric surfaces (furniture, plastic, etc.)



CandyTag

Sizes : 96x21 mm

Registration range: up to 9 m



RFID Keychain

Intended for complex products, if it is impossible to attach a label

Sizes : 38x38x6 mm

Registration range: up to 6 m

Tags on metal and items containing electronic fillings (office equipment, PCs, machines, tools)



IT-2

Sizes : 51x28x10 mm

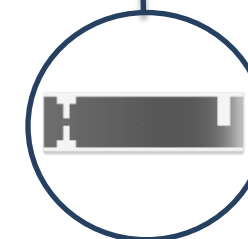
Registration range: up to 3,5 m



PatchTag

Sizes : 182x26x16 mm

Registration range: up to 15 m



TargetTag

Sizes : 70x18x1,4 mm

Registration range: up to 5 m

RFID equipment



Designed for reading RFID tags in conditions without access to power sources, as well as outdoors.

Benefits:

- Read RFID tags during product search
- Inventory
- Automatically transfers data on all operations to the RFID system via wireless Wi-Fi or GSM
- Allows to read RFID tags autonomously



RFID equipment



Portal RFID Reader

Designed for automatic accounting of objects during shipment / acceptance

The reader can be equipped with an alarm system and an autonomous power source. Portal RFID readers work autonomously or under the control of external software.

RFID equipment

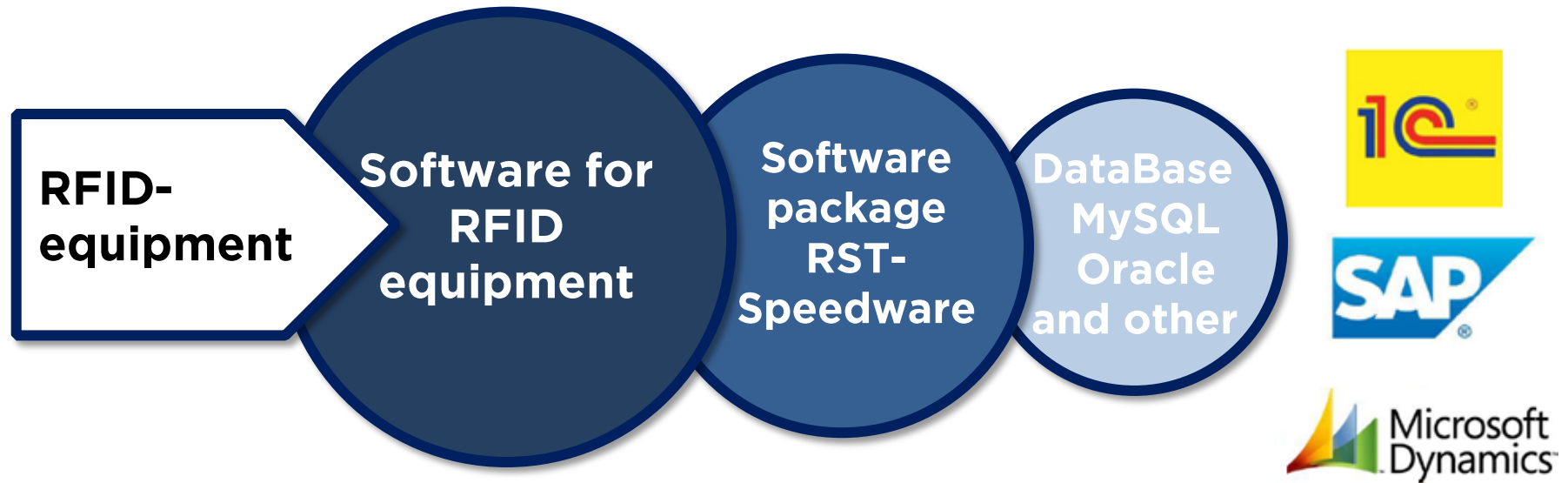


RFID tunnel designed to scan products in bulk packages

The tunnel is a hardware-software complex that allows you to simultaneously scan more than 300 units of labeled products without opening the package.

The device can be equipped with conveyor equipment, live rolls, light and sound alarms, as well as an autonomous power supply system.

Software architecture of the RFID solution



Software RST-SPEEDWARE



Middleware for collecting data from all readers and storing information in the database.

RST-SPEEDWARE receives from the database tables tasks for a particular reader to perform operations with RFID tags, sends the specified tasks to readers, monitors the execution of tasks, and saves the results of tasks in the database.

RST-SPEEDWARE performs the functions of:

- Saving the results of registration of RFID tags in the database
- Saving the results of operations on RFID tags in the database (writing, reading, blocking, etc.)
- Saving in the database diagnostic information about the status of the reader
- Transfer of data and commands from the database tables to a specific reader

Software RST-INVENTORY



The software is designed to control the mobile reader.

Its configures the reader and controls its operation based on commands received from RST-SPEEDWARE software.

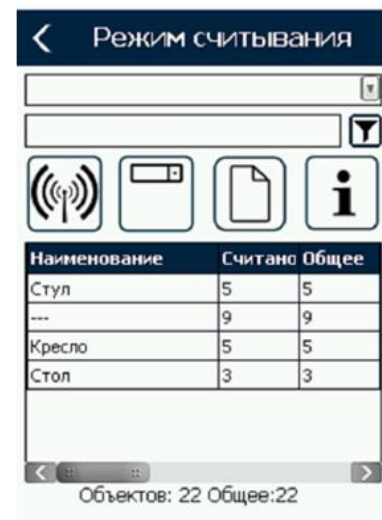
RST-INVENTORY software performs the functions of:

- Information exchange with RST-SPEEDWARE
- Processing of registration results of RFID tags and operations on them
- Marking objects with RFID tags
- Search for objects marked with RFID tags
- Selection of objects marked with RFID tags according to nomenclature positions
- Inventory of objects marked with RFID tags
- Reader configuration
- Saving the results of the execution of commands in the memory of the reader in the absence of communication with the RST-SPEEDWARE

Software RST-INVENTORY

RST-Inventory-records identifiers in the memory of RFID tags and sends data about performed actions to the external information system.

RST-Inventory integrates with the customer's existing accounting system.



Marking

In marking mode, RFID tags are glued onto accounting objects and their identifier code is compared with the name in the inventory sheet. As a result of marking, the read RFID tag will be assigned the item nomenclature of the object from the IP. After sending the report, this information will appear in the IS.

Stages:

| Номер | Идентификатор | Дата | Тип |
|-------|---------------|----------|--------|
| 18233 | AE8832D | 12.03.20 | Догово |
| 18233 | AE8832D | 12.03.20 | Догово |
| 9462 | LO6G545 | 13.03.20 | Догово |
| 9462 | LO6G545 | 13.03.20 | Догово |
| 9462 | LO6G545 | 13.03.20 | Догово |
| 1283 | mark176 | 08.08.20 | Догово |

Creating tasks

| Наименование | Система | Общее |
|--------------|---------|-------|
| Стул | 0 | 10 |
| Телевизор | 1 | 1 |
| Клавиатура | 1 | 1 |
| Доска | 0 | 2 |
| Стол | 1 | 1 |

The choice of the task for marking

| Наименование | Система | Общее |
|--------------|---------|-------|
| Стул | 0 | 10 |
| Телевизор | 1 | 1 |
| Клавиатура | 1 | 1 |
| Доска | 0 | 2 |
| Стол | 1 | 1 |

Selecting a marked product from the list

Номенклатура: Стул

EPC RFID-метки текущее значение

Новое значение

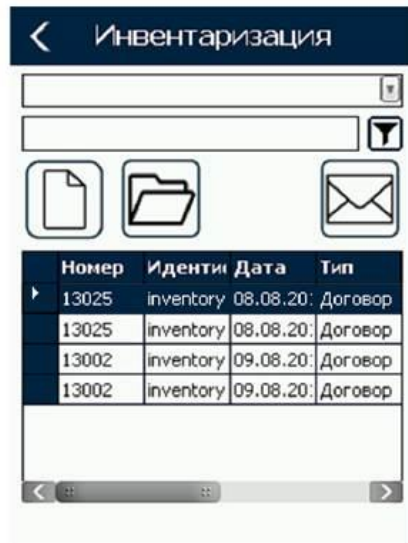
Дополнительная информация

Recording mode

Inventory

The inventory mode is the main component for conducting an inventory, search and write-off of fixed assets of the enterprise. As a result of the actions taken, a report is generated on the correspondence of information from the IP to the actual presence of objects in a specific location. Also, if the reader detects objects that are irrelevant to this location, the system will automatically notify the user of this and send a notification to the IS.

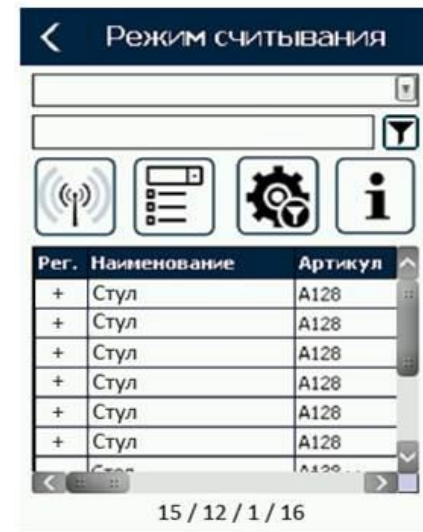
Stages:



Selecting an inventory task



Object reading mode

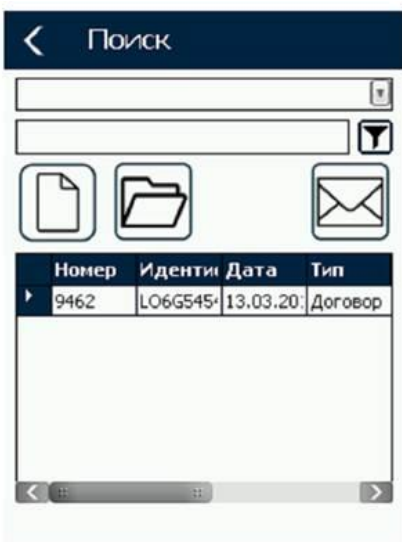


Filtering by item

Search

Carries out an accurate search for accounting objects recorded in the inventory sheet. As a result of the actions taken, a report is generated on the availability of a particular object. Also, if the reader detects objects that are irrelevant to this location, the system will automatically send a notification to the IS.

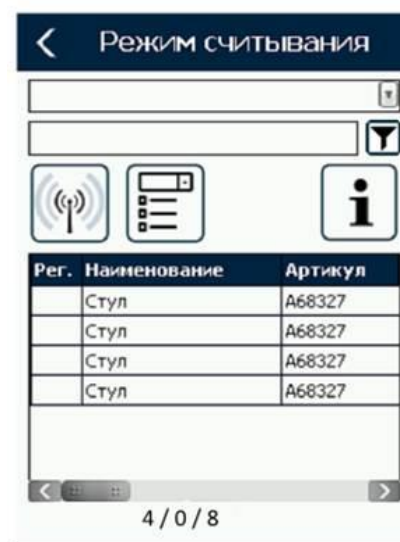
Stages:



Selecting a search task



Object reading mode



Filtering by item and displaying the expanded list

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

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