

ABiTecH

ASCOA

Automated system for accounting and inventory process using RFID technology



About us

ABiTec - founded in 2003 and specializes in IT services for automating business processes using RFID technology in Kazakhstan and is recognized as one of the four innovative companies in the country.



The award for the most innovative solution with RFID technology

"KazAeronavigation" (USA, Orlando, 2018)
JSC NC "KazMunayGas" (USA Las Vegas 2022)
RFID Journal Live



Software Developer



TOP-4
Innovative companies for automation of production tasks



Leader in Development
and introduction of digital RFID technologies

Project objective

Automation of the process of accounting and inventory of fixed assets using RFID technology

● Reduction

Reduction of inventory time by several times

Reduction of time for the formation of inventory acts

Reduction of search time for fixed assets

● Security

Transparency of material liability by detailing accounting.

Minimization of the human factor

Convenient and comprehensive reporting movement and inventory of fixed assets.

Accounting for MRPs and fixed assets users

Quick search for a fixed asset using RFID tags

ASCOA

(Automated System of Control and Operational Accounting)



Officially registered
software in Kazakhstan



Multilingual interface
(English, Kazakh and
Russian)



Implementation at large
enterprises of Kazakhstan,
in various industry sectors



Digital Passporing
lens and equipment (RFID)

Stages: ASCOA-Management of fixed assets, goods and materials

Automated Control and Operational Accounting System

Planning

- Current list of employees, divisions, fixed assets
- Maintaining movements by actual locations and by current users of fixed assets, warehouses
- Formation of Tasks for inventory by departments
- Issuance of Tasks to Specialized Mobile Terminals (SMT or smartphones)

Control

- Online Inventory Control
- Control by Executers
- Control by equipment (RFID identifiers at accounting facilities)
- Inventory start and end control
- Monitoring the non-working condition of fixed assets (photo report and description of defects)

Accounting

- Accounting for divisions, accounting responsible people, actual locations and current MRPs, Users of fixed assets
- Accounting for each fixed asset
- Automated inventory and reporting
- Transferring credentials to other systems

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«ASCOA Inventory»

Participant roles



ARM
Administrator



ARM
Operator



ARM
Engineer



ARM
Head

ASCOA ADMINISTRATION

1. Assignment of Roles and Permissions of users
2. Monitoring the functioning of the system
3. Reporting
4. Maintaining the system in working condition.
5. Communication with developers

PLANNING

1. Data exchange with other systems
2. Entering and editing fixed assets and goods and materials
3. Formation of the Inventory Task
4. Registration of movement of fixed assets, goods and materials
5. Stationary area monitoring

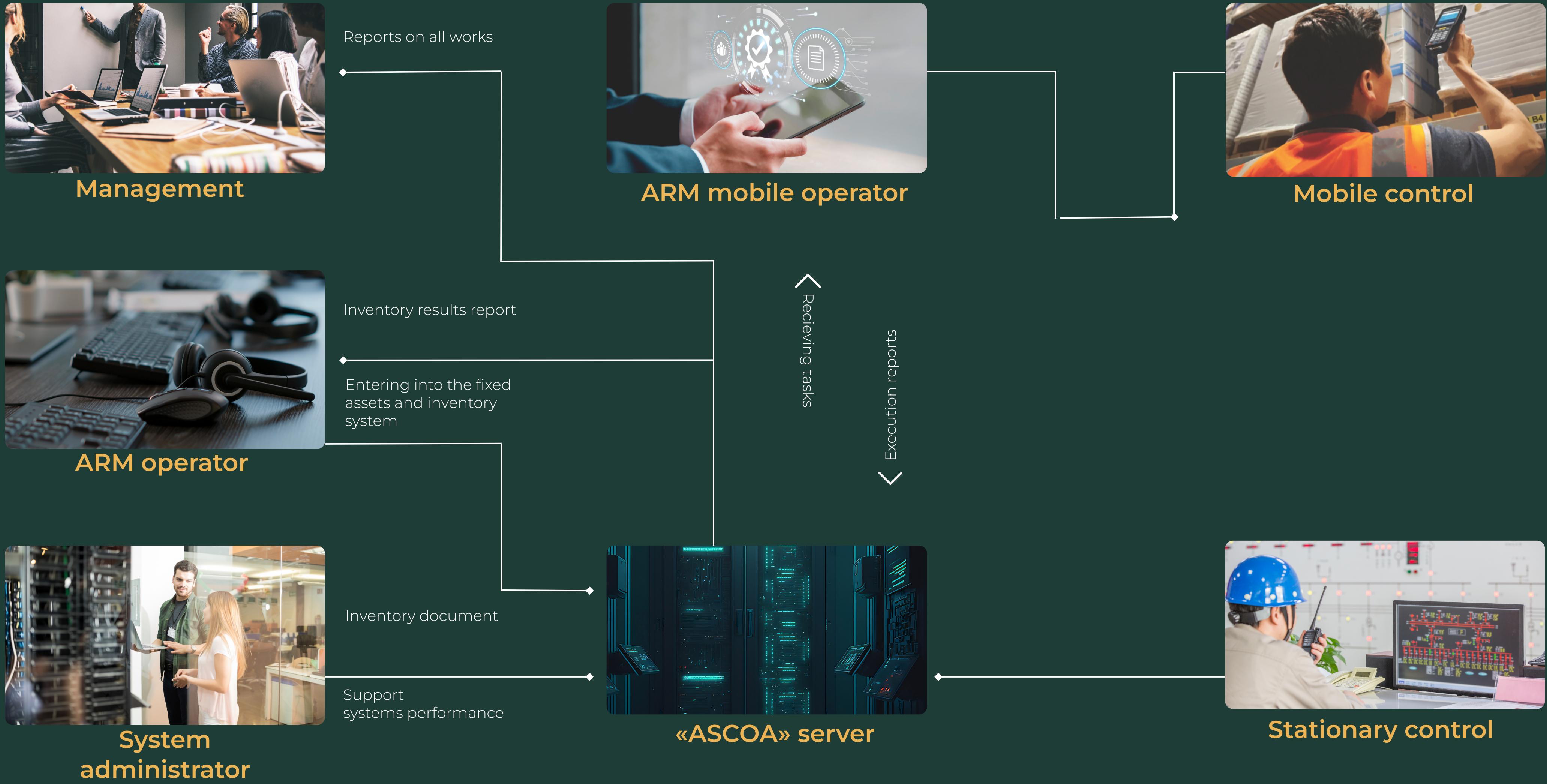
PERFORMANCE

1. Identification of the Contractor and registration of work performance through a mobile device
2. Completing the task
3. Reading code on equipments
4. Makes comments on the condition of the equipment
5. Checking the contents
6. Photo report of work
7. Write-off of goods and materials for work

CONTROL

1. Inventory
2. Divergence
3. Monitoring of the inventory
4. Analytical reports on request

Work Plan



ASCOA Inventory

Comparison of inventory methods

Classic Accounting

- All inventory operations are performed manually.
- In most cases, there is no way to check the inventory process

Accounting time for fixed assets or goods and materials (example: 2000 pcs.)
About 6 people / 1 month

(High probability of loss/theft of goods and materials due to infrequent inspections and human error)

Accounting with a barcode

- Speeds up the inventory process
- Reduces the number of errors in inventory. Often replacement is required. Requires line of sight label.
- Can be faked

Accounting time for fixed assets or goods and materials (example: 2000 pcs.)
1 person / 1 week

(There is a possibility of loss / theft of goods and materials due to human factors (for example, the possibility of forging a barcode)

Accounting for assets based on RFID technologies

- Speeds up the inventory process
- No need for re-labeling.
- Long service life
- Straight visibility is not required
- Impossible to fake

Accounting time for fixed assets or goods and materials (example: 2000 pcs.)
1 person / 1 day

(Loss / theft is detected immediately in the event of a scheduled / unscheduled inspection)

ASCOA - Inventory

The effect of the implementation of the system

- Increasing the speed of obtaining and processing efficiency of operational information at all controlled levels.
- Optimization of operational control by management.
- Reducing the cost of operating personnel.
- Minimization of costs for operational accounting.
- Ensuring transparency of management.
- Mobile client with online and offline support on the ASCOA mobile platform.
- Support for multilingual user interfaces.



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