



# *ELECTORAL PROCESSES DIGITALIZATION*

*Concern «Avtomatika»*



# About the Concern «Avtomatika»

*Concern «Avtomatika» is an industrial company supplying integrated high-tech solutions with a high degree of information security for business and government.*

**MORE THAN 70**  
YEARS OF EXPERIENCE

**CENTRE OF COMPETENCE OF ROSTEC**  
STATE CORPORATION IN IT AND CYBER SECURITY

## **FIELDS OF ACTIVITY:**

- *Communications and data transmission*
- *Computer Engineering*
- *Security*
- *Transport*
- *Trade*
- *Medicine*
- *Education*
- *Military-industrial complex*

## **CUSTOMERS:**

- *Governments*
- *Commercial structures*
- *Uniformed agencies*
- *Russian defence enterprises*
- *State corporations*
- *Individuals*
- *Foreign customers*

AMONG ENTERPRISE  
EXPERTS THE HOLDING  
EMPLOYS OVER

**11 000**  
EMPLOYEES

THERE ARE

**36**

DOCTORS  
OF SCIENCES

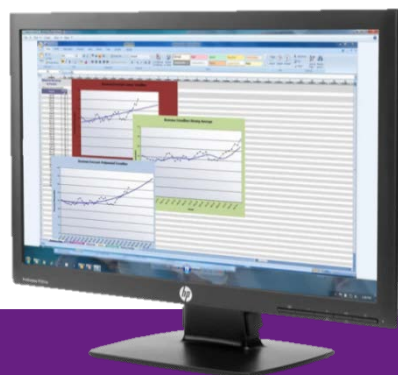
**147**

CANDIDATES  
OF SCIENCES



# *Digital polling station*

## *SCHEME OF WORK*



*1. . Comparison of passport  
with voter's database*



*2. Issuing a barcode*



*3. Voter voting*



*4. Printing  
of voting results*



*5. Downloading data  
to the SAS «Vybory»*





## *Composition of parts for equipping digital polling station*



### **COMPOSITION:**

- Voting terminal  
(from 4 to 16 devices)
- Controller to activate  
the barcode and provide  
access to the e-bulletin  
(up to 5 devices))
- Network controller  
with external printer



# *Digital polling station automation equipment complex technical characteristics*



- *A new complex of automation equipment for a digital polling station can include at least 4 voting terminals with the ability to scale up to 16 devices*
- *Software download without disassembling the device*
- *5-6 kg weight*



## ***Voting terminal element base:***

- *Based on AWP architecture (32-bit microcontrollers of the STM32F7 series)*

## ***Software:***

- *No operating system*





## *Ballots Processing Complex on a digital polling station*



*BPC is a device for automated counting of votes,  
the formation and printing of the final protocol.*

### **KEY FEATURES**

- An automatic ballots capture mechanism, a reading line, which allows real-time scanning and recognition of ballots*
- The complex automatically marks invalid ballots*
- The complex has the function of data transmission through a machine-readable QR-code*
- The complex does not allow to draw several ballots simultaneously*
- The complex receives the initial data and transfers the data of the final protocol on an external electronic storage medium*





# *The international cooperation*

ANGOLA

*In 2016, Concern's employees organized and conducted electronic voting at the congress of the governing party in Angola.*

*The quality of the equipment and services delivered was highly appreciated by the highest officials of the state, which allowed us to develop further cooperation in this direction.*



# *The international cooperation*

## *ECUADOR*

*In 2014, equipment was used to hold municipal elections in Ecuador.*

*After successful elections conducting, Russian and Equadorian representatives developed plan to completely replace in Ecuador the ordinary voting with electronic by 2021.*







**Rostec**

***WWW.ROSTEC.RU***