State system of producing, processing and control new generation passport-visa documents

SID system

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GazIntech
Technologies for Effective Development

The project of State system of new generation passport-visa documents and SID system

- Seafarers' Identity Document System (SID System) is the part of State System of producing and control new generation passport-visa documents (State System). The main contractor and developer of creating of the State System is NII Voskhod. SID System is developed by Gazintech for Russian federal agency of sea and river transport
- The project of development State system of producing, processing and control new generation passport-visa documents started in the Russia in 2005. The goal of this project is to develop unified interdepartmental information system that support implementation in the Russia electronic biometric passports and biometric visas. Pilot area of test exploitation of State System is starting now
- SID system base on technological platform of State System and use common components: certification authority, training center, support center and control center
- SID system takes into account all requirements of Convention 185 (Revised)

Members of the SID system project

- Main members of the SID system project:

- Ministry of information technologies and communications of the Russian Federation – general Customer of State New Generation Passport-Visas System (www.minsvyaz.ru, office@ptti.gov.ru)

- Federal agency of sea and river transport - Customer of SID system (www.morflot.ru, info@morflot.ru)

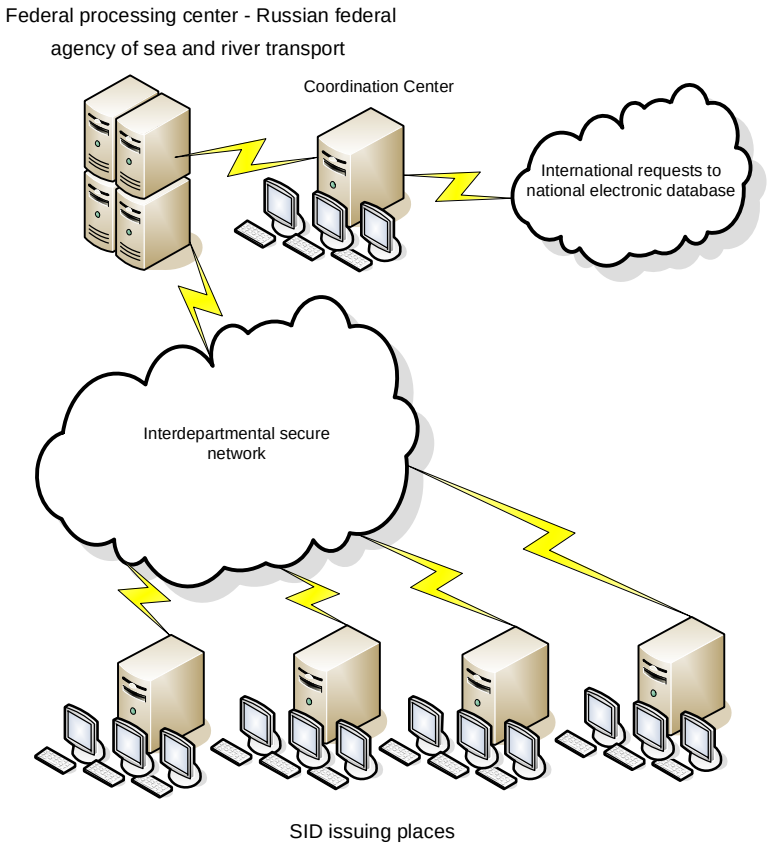
- State unitary enterprise “NII Voskhod” – system integrator of of State New Generation Passport-Visas System (www.voskhod.ru, info@nii.voskhod.ru)

- Gazintech Co. - main developer of the SID system (www.gazintech.ru, info@gazintech.ru)

Geography of the SID system project

26 issuing places in the Russian Federation, 2 Coordination Centers (main and reserve) in Moscow. Blue points mean pilot area

Architecture of the SID system



- SID system is hierarchical territorial-distributed information system. SID system includes:

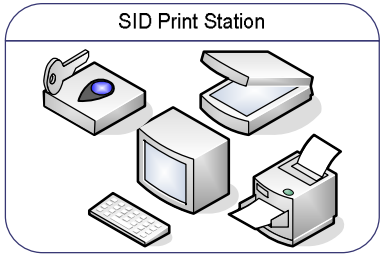
  - SID issuing places perform processing and control;

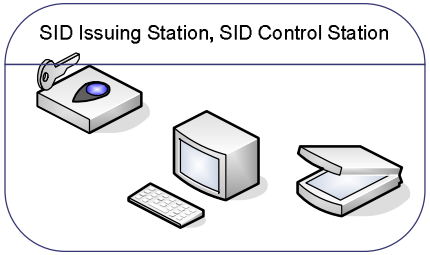
  - mobile SID control places;

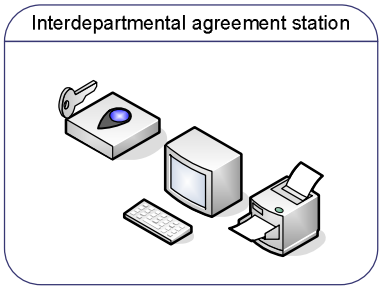
  - Federal Data Processing Center – support functioning of the National Electronic Database and Coordination Center according with Convention 185.

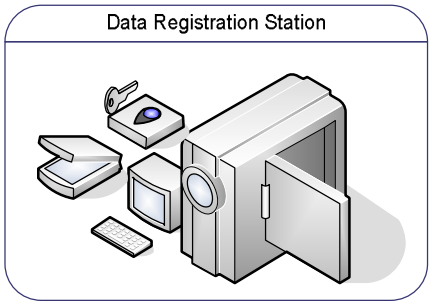
- All objects are linked by means interdepartmental secure network.

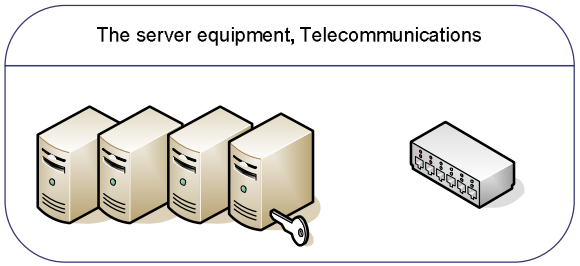
Hardware of the SID issuing place











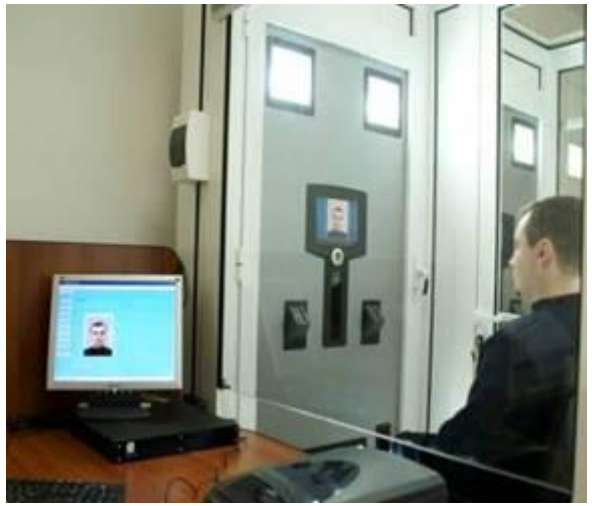
•SID issuing place includes following equipment:

- Biometric data registration station;
- Biometric booth;
- SID print station;
- SID issuing and control station;
- Other stations;
- Servers;
- Cryptographic equipment;
- Telecommunication equipment.

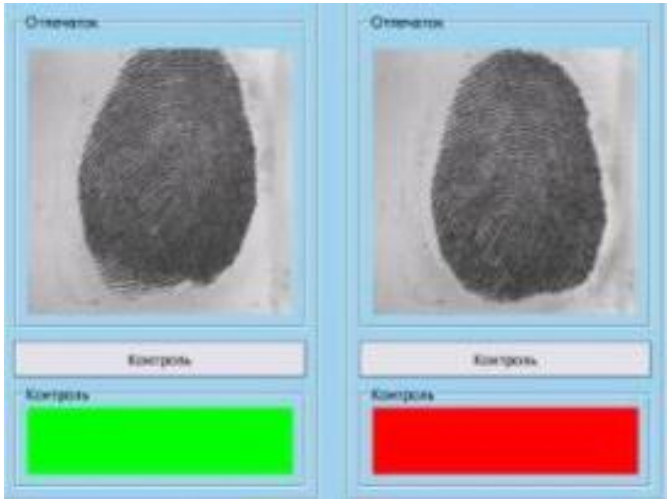
SID issuing place process

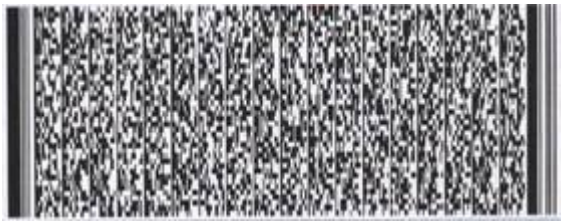
- Step 1 - Seafarer fills in the questionnaire and passes procedure of photographing, getting fingerprints and sign. Photographing includes photo transformation process to meet to ICAO requirements
- Step 2 - Seafarer's data come to an agreement with federal agency of sea and river transport and other departments about decision of producing SID
- Step 3 - SID is printed
- Step 4 – SID is examined for it is a machine readable document
- Step 5 – Seafarer passes verification procedure and receives SID
- Step 6 – Data about received SID are submited to national electronic database
- SID control procedure includes steps: reading SID, getting seafarer's fingerprint, making request to national electronic database, comparing SID data, seafarer's data and data from national electronic database

Biometric parameters

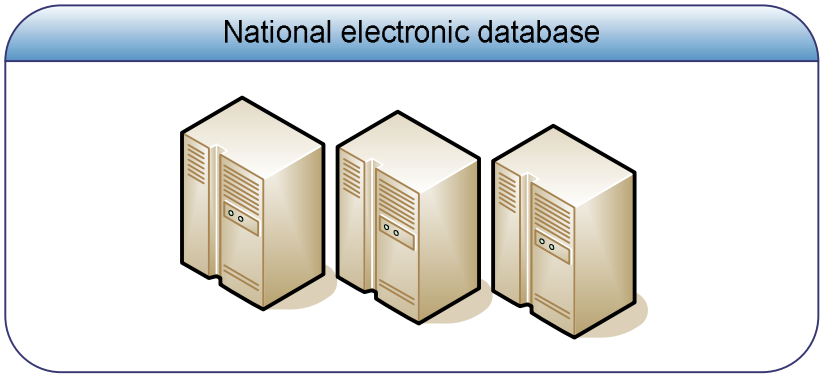


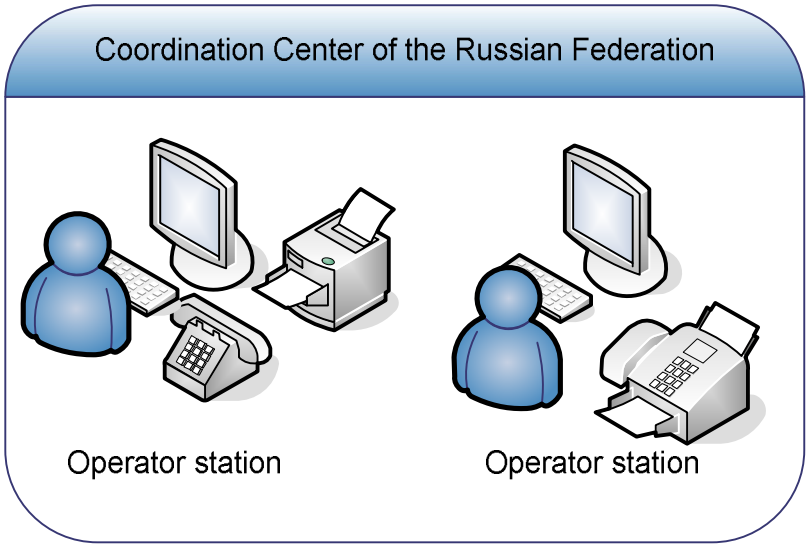
SID verification





Federal Data Processing Center





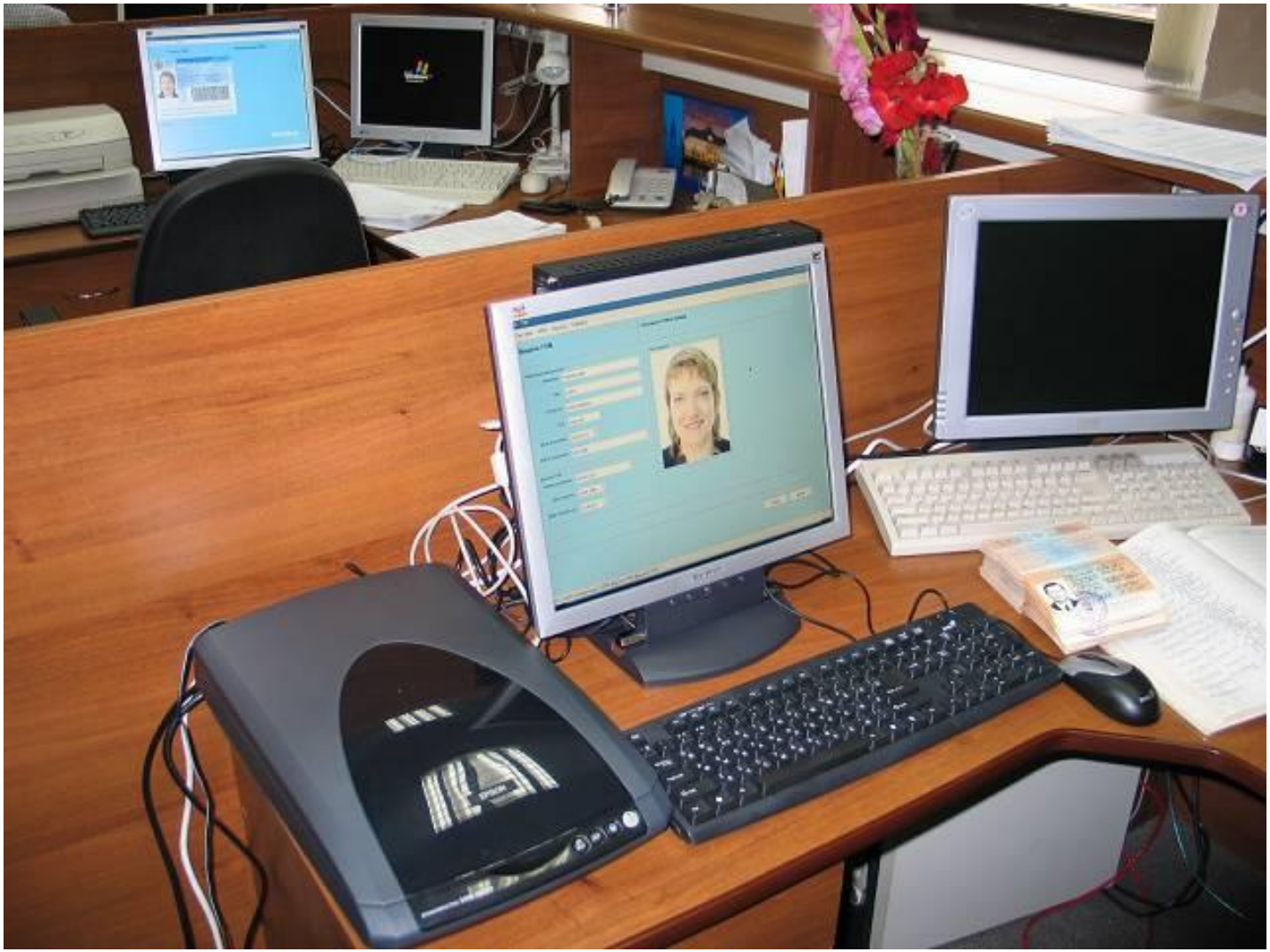
- Federal Data Processing Center includes:
  - National Electronic Database;
  - Coordination Center.
- The main goal of the National Electronic Database is registration data of seafarers' identity document issued, suspended or withdrawn, according to Convention 185
- Coordination Center shall designate a permanent focal point for responding to inquiries, from the immigration or other competent authorities of all Members of the Organization, concerning the authenticity and validity of the seafarers' identity document issued by its authority.

Security

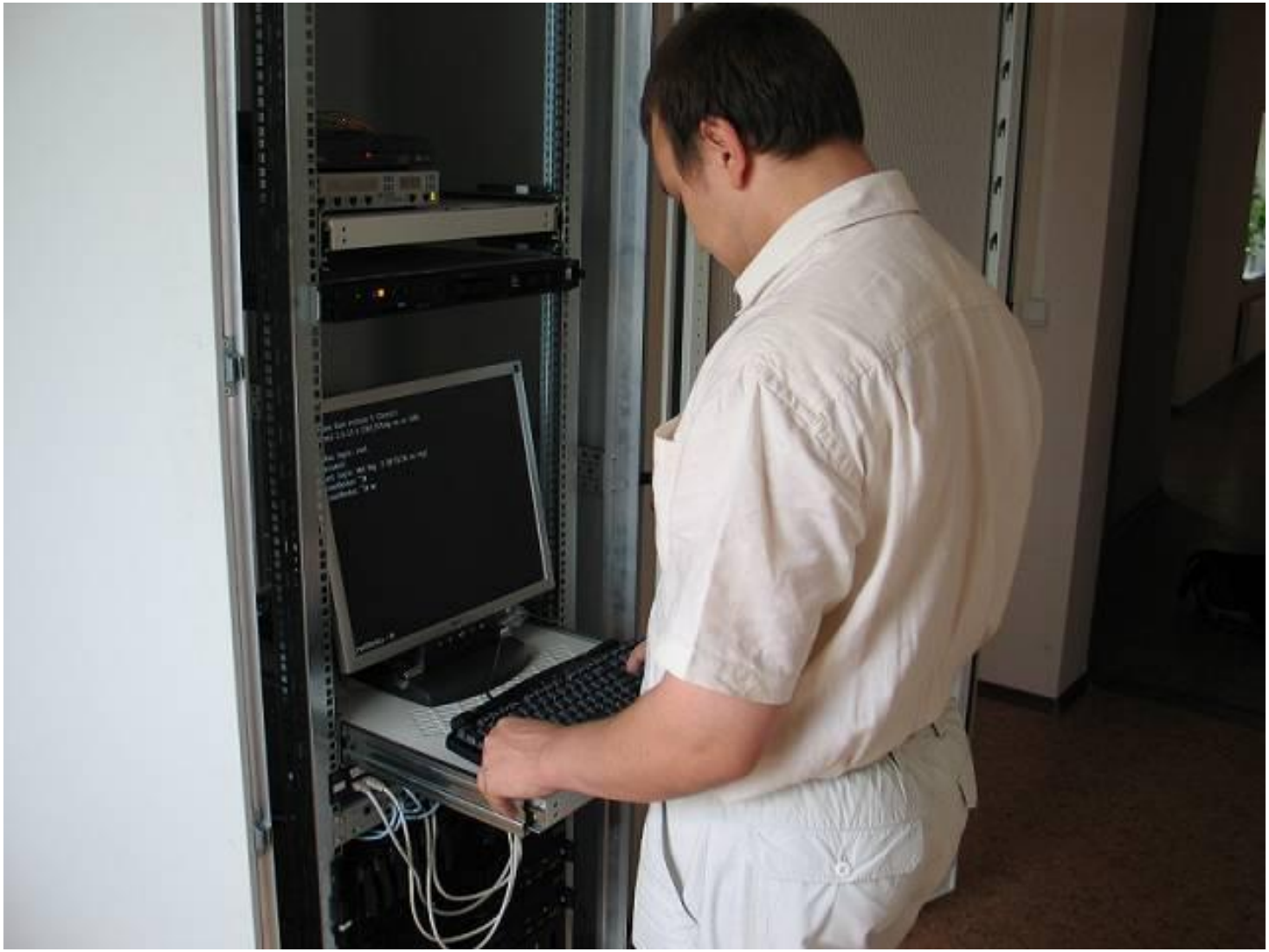
- Requirements of protection of personal biometric information are realized by means:
  - application based logon with username and password;
  - all important steps are signed using electronic digital signature;
  - using cryptographic transformations during the process of information interchange between SID issuing places and federal processing center;
  - using diskless client station. All information is processed and saved on server;
  - using unix-based operating systems, certified by competent Services of the Russian Federation;
  - electronic digital signature version control of system component.

SID system hardware. Maritime Authority of Kaliningrad. Data registration station and biometric booth

SID system hardware. Maritime Authority of Kaliningrad. Print station and control station



SID system hardware. Maritime Authority of Kaliningrad. SID issuing place database



SID system hardware. Russian maritime security service. Photographing and scanning fingerprint in biometric booth

SID system hardware. Russian maritime security service. National electronic database

ILO tripartite high level Working Group on labour norms in sea navigation. Presentation of the SID system

ILO tripartite high level Working Group on labour norms in sea navigation. Presentation of the SID system

Resume

- SID system take into account all requirements of ILO documents: Convention 185 (Revised), technical report ILO SID - 0002;
- SID system is the first system, that really operates with digital biometric data (biometric fingerprint templates);
- SID system is the territorial-distributed information system with 2 hierarchy levels: territorial (SID issuing places) and federal (Federal Data Processing Center);
- Total number of SID issuing places – 26;
- At this time pilot zone of SID system starting. Pilot area includes: Maritime Authority of Kaliningrad and Russian maritime security service (Moscow).