Content:

- About e-Government Agency in short;
- Cloud technologies;
- Cloud services delivery - process and scenarios;
- Conclusion.
**About SEGA**  [http://www.e-gov.bg](http://www.e-gov.bg)

State e-Government Agency (SEGA) with the Council of Ministers has been established pursuant to the Electronic Governance Act (published in the State Gazette, Issue 50 of 2016).

**SEGA shall perform activities related to:**

- issuing and introducing control-related policies, rules, regulations and good practices in the field of electronic governance;
- strategic planning and initiatives;
- budget planning and control, coordinating sector-related policies and interdepartmental projects;
- maintaining of central registers to meet the electronic governance requirements and need;
- maintaining of state private cloud of the State Administration;
- maintaining of communication network of the State Administration.
Cloud technologies (1/2)

A model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction.
Cloud technologies (2/2)
Cloud platform components

- User Self-Service Portal
- Service Admin Portal
- Service Provider
  - (Service Provider Foundation, Service Management API)
- Management
- Backend (database)
- Infrastructure (AD, DNS, DHCP)
- Platform
  - Failover Cluster
- Storage
- Network
- Compute
Cloud services for the state administration

Scenario 1:
Cloud services for Electronic Administrative Services (EAS)

Scenario 2:
Cloud services for Internal SA environment, daily SA workflow and as part of private IT infrastructure of SA institution

Scenario 3: Cloud services for common use
Electronic Administrative Services (EAS)

An online real-time administrative service that is capable of interacting electronically for each of the four stages of its implementation:

Stage 1: Information (providing information on the administrative service);
Stage 2: Unilateral interaction (possibility to load the forms of the documents);
Stage 3: Bilateral interaction (possibility to process the forms of the documents, including authentication, signing, payment and etc.);
Stage 4: Transaction (electronic realization of operation(s)).
Main group of Electronic Administrative Service (EAS)

- Registration
- Payments
- Issue of Documents
- Social services
- Voting
Scenario 1: E-Governance and EAS

E-Governance

Electronic Administrative Services

What is the source?

What is the product?

Who is consumer?

Cloud technologies

Cloud Services

SaaS

PaaS

IaaS

State Institutions

Citizens and Business
E-Governance and Cloud services

State IT Resources

State Datacenters

Cloud Services

State Institutions (Cloud Consumers)

Electronic Administrative Services

Citizens and Business (EAS Consumers)
Scenario 1: Technical realization

Electronic Administrative Service

- Access to Self-Service Portal
- Security Management Channel
- Public Access
Scenario 2: Cloud services for Internal IT environment

Daily Workflow

Internal IT Environment

What is the source?

What is the product?

Who is consumer?

Cloud technologies

Cloud Services

State Institutions

SA users and teams

Thursday, March 15, 2018
**Cloud resources for private use**

**State IT Resources**

- **State Datacenters**
  - SaaS (consume)
  - PaaS (build)
  - IaaS (host)

**Cloud Services**

**Internal IT Environment**

**SA users and teams**

**State Institutions**

*(Cloud Consumers)*
Scenario 2: Technical realization

Access to Self-Service Portal
Private Management Access
Scenario 3: Cloud resources for common use

State IT Resources

Common Internal IT Environment

SA users and teams

State Institutions (Cloud Consumers)
**Scenario 3: Realization of Multitenant mode**

- **Organization 1**
  - Management
  - Multitenant environment (domain: egov.local)
  - Operation System
  - Virtual machines
    - Cluster (Resource Pool)

- **Organization 2**
  - Management
  - Multitenant environment (domain: egov.local)
  - Operation System
  - Virtual machines
    - Cluster (Resource Pool)

- **Organization 3**
  - Management
  - Multitenant environment (domain: egov.local)
  - Operation System
  - Virtual machines
    - Cluster (Resource Pool)
Summary of scenarios

STATE INSTITUTIONS
- Cloud services consumers;
- Internal services consumers

CITIZEN AND BUSINESS (EAS consumers)

Protected Internet I/O point

S-to-S VPN

INTERNET

STATE INSTITUTIONS
- Cloud services consumers;
- Internal services consumers

DATA CENTERS

CITIZEN AND BUSINESS (EAS consumers)

EAS

NETWORK OF State Administration

IT resources

egov.local
In Conclusion
Using of IT resources - Traditional model

**Time**

**IT Capacity**

- **Not used IT capacity**
- **Lack of capacity**
- **Expected Load**
- **Real Load**
- **Distribution of IT capacity**

**Fixed price of IT resources**

**Innovation barrier**
Using of IT resources - Cloud services model

- Low initial investment
- Decreasing of extra capacity
- No lack of capacity
- Decreasing the price in case of low load

IT Capacity

Expected Load

Distribution of IT capacity

Time

Real Load
Thank you !