Republic of Bulgaria
MINISTRY OF TRANSPORT,
INFORMATION TECHNOLOGY AND COMMUNICATIONS

Европейски съюз

ЕСФ България
Европейски социален фонд
Инвестиции в хората

ОПАК. Експерти в действие

Агенция по геодезия, картография и кадастър

Проектът се осъществява с финансовата подкрепа на Оперативна програма „Административен капацитет", съфинансирана от Европейския съюз чрез Европейския социален фонд.

Bulgarian eGovernment IT Strategy 2011 - 2015

Ivan Stanev
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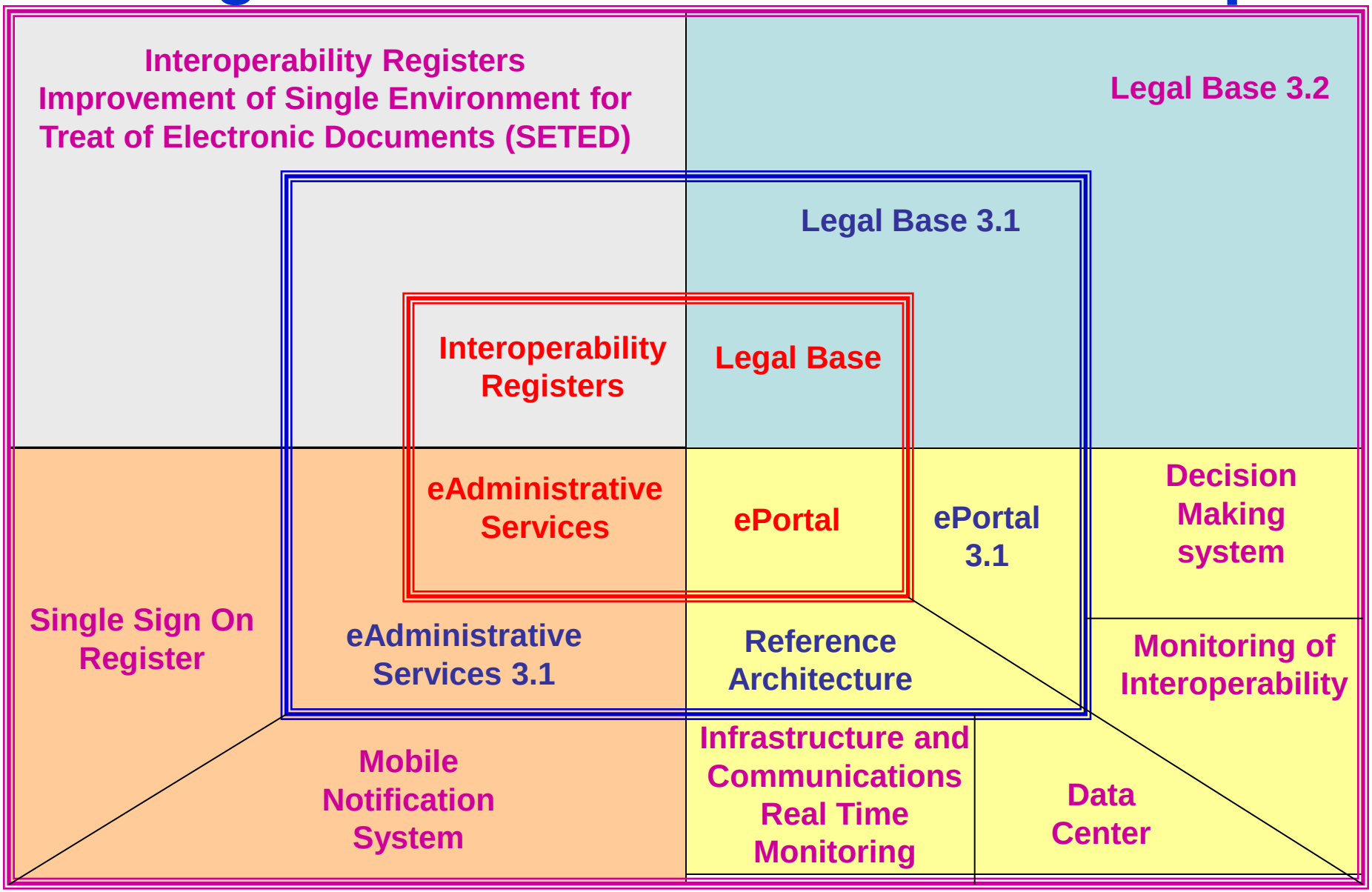
Part 1

Bulgarian eGovernment Activities

Bulgarian eGovernment Road Map



BeG Results Achieved

- The **IT Strategy** of BeG is developed for **the period 2011 – 2015**. A **Road Map** for the IT Strategy is created.
- The **legal base** and **procedures** for **certification** of **Administrative Information Systems** (AIS) of Bulgarian Government (BG) are created. The process of Certification of BG AISs is in progress.
- The **legal base** and **procedures** for registration of **Electronic Administrative Services** (EAS) of AIS are created. The process of registration of EAS is in progress.
- The **legal base** and **procedures** for registration of **Information Data Objects** (IDO) of AIS are created. The process of registration of IDO is in progress.
- The l**egal** b**ase** and **procedures** for realisation of **Single Environment for Electronic Documents Exchange** (SEEDE) are created. The SEEDE establishment is in progress.
- The **BeG Portal** version 1 is **created**. A version 2 of this portal is under construction.

Part 2

Bulgarian eGovernment Administrative Services

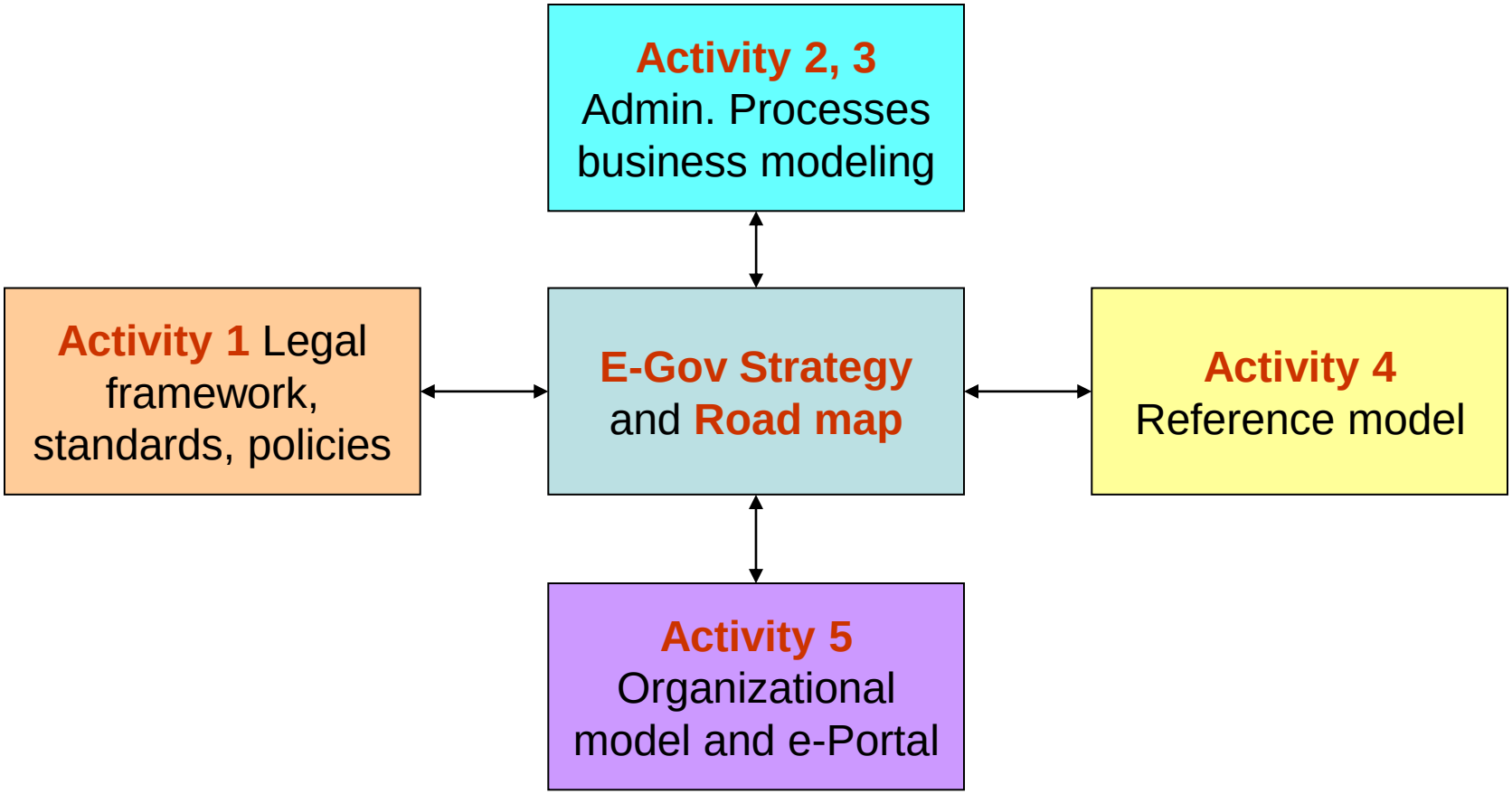
Scope of the Project

- Project name: **Development of administrative services as e-services**
- Project No **K10-31-1/07.09.2010**
- Project duration:
  - start: **7 Sep 2010**
  - end: **7 Mar 2012**
- Budget: **18M BGN**.
- Target groups: **Central and local government, citizens and business organizations**

Project Goals

- Common goal: **Better administrative services for citizens** and the business and users satisfaction increase using e-Government
- Specific goals
  - **Improved legal framework** focused on administrative e-services.
  - Realization of **G2G Administrative Services**.
  - Improved processes for e-services delivery.
  - Realization of **Single Window Concept**.
  - **Capacity building** for **realization of eG politics**.

The Project Actions



Analyzed Administrative Services

- Summarized information for **2143 services**:
  - **1946** for **Central/Special admin** and regional administration
  - **197** for **local administration**
- Detailed information for **685** priority services according to decision of CoM 619 for Central/Special admin

- Summarized results for priority 685 services in 2009:
- **162 AdmS** are used **0** to **99** times;
- **83 AdmS** are used **100** to **499** times;
- **94 AdmS** are used **500** to **4 999** times;
- **67 AdmS** are used **5 000** to **49 999** times;
- **38 AdmS** are used **50 000** to **499 999** times;
- **9 AdmS** are used more than **500 000** times.

- The result is a list containing **415 administrative services, candidates for realization**:
- **218** for **central and regional administration**
- **197** for **local administration**

Analyzed Administrative Registers

- Summarized results for the expected usage of the **identified registers and internal e-services**:
- Expected **register usage** in number of admin services:
  - **49** are used in more than **5 admin services**;
  - **42** are used in more than **10 admin services**;
  - **29** are used in more than **20 admin services**;
  - **16** are used in more than **30 admin services**.
- Expected **annual transactions per register**
  - **68** are used in more than **1 000 times**;
  - **60** are used in more than **10 000 times**;
  - **49** are used in more than **100 000 times**;
  - **28** are used in more than **1 000 000 times**.

Analyzed IT Infrastructures in the State Administration

- The data are collected during internal MTITC investigation which took place in 2010. The results **do not reflect the precise picture in IT sector**, but illustrates the **sector tendencies**. Data is as precise as they are provided by the respective organization participated in the investigation.

- Analyzed structures – **48,** including **Central administrations** - **11**, **Agencies** – **36, 8** of which have less than **50** employees, **16** – up to **300** employees, **8** – up to **600** employees, **4** – up to **1000** employees and **2** with more than **1000** employees.

- **7** organisations are **without IT employes**
- **17** organisations are **without IT department**
- **27** organisations **haven't data reservation**
- **17** organisations **don't use DBs**
- **20** organisations **are not included in the National State Administration Network**
- **8** organisations **naven't any internal connections**
- **7** organisations **haven't any protection from hackers attacs**

Identified Problems for Realisation of EAS

- P1 **Contradictory legal base** in e-Gov area.
- P2 **Poorly standardized information model** of State administration
- P3 Not effective and **poorly standardized technological framework** for AIS integration
- P4 **Poorly standardized communication** among the different IT component in State administration
- P5 **Poorly standardized e-service nomenclatures,** used in State administration.
- P6 **Lack of common methodology** for business processes description and realization

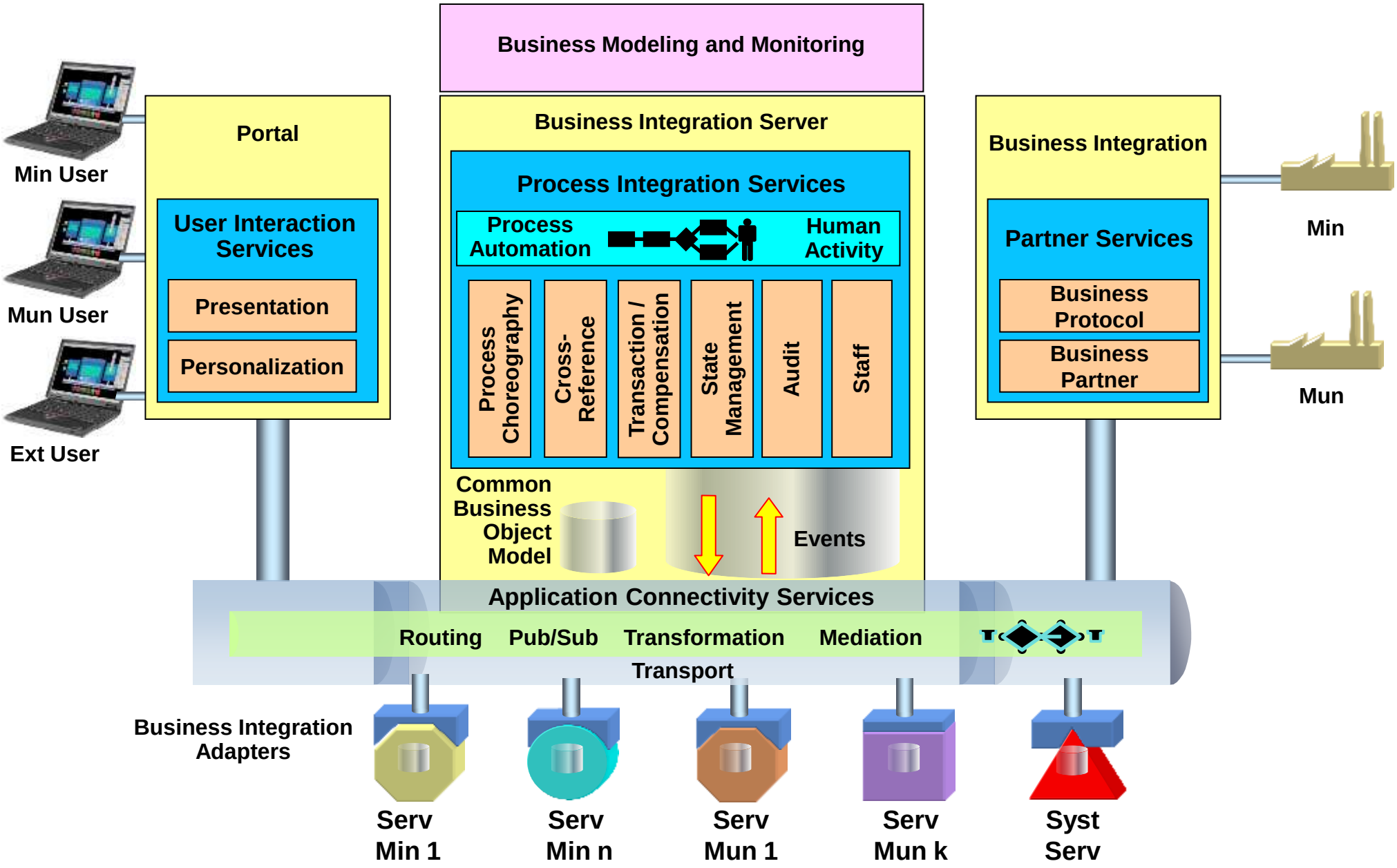
Identified Problems for Realisation of BeG TFr

- P1 **Lack** of **Single Methodological Base** for development and support of AIS in State Administration.
- P2 **Not Effective** and **not Synchronized planning** of sectoral AIS development.
- P3 **Big Contrast** in the **realised AISs** concerning **TFrs**, used **tools** and **instruments**.
- P4 **Bad technological discipline** of the **AISs support teams**.
- P5 **Lack** of **standartisation in communication** area of AISs.

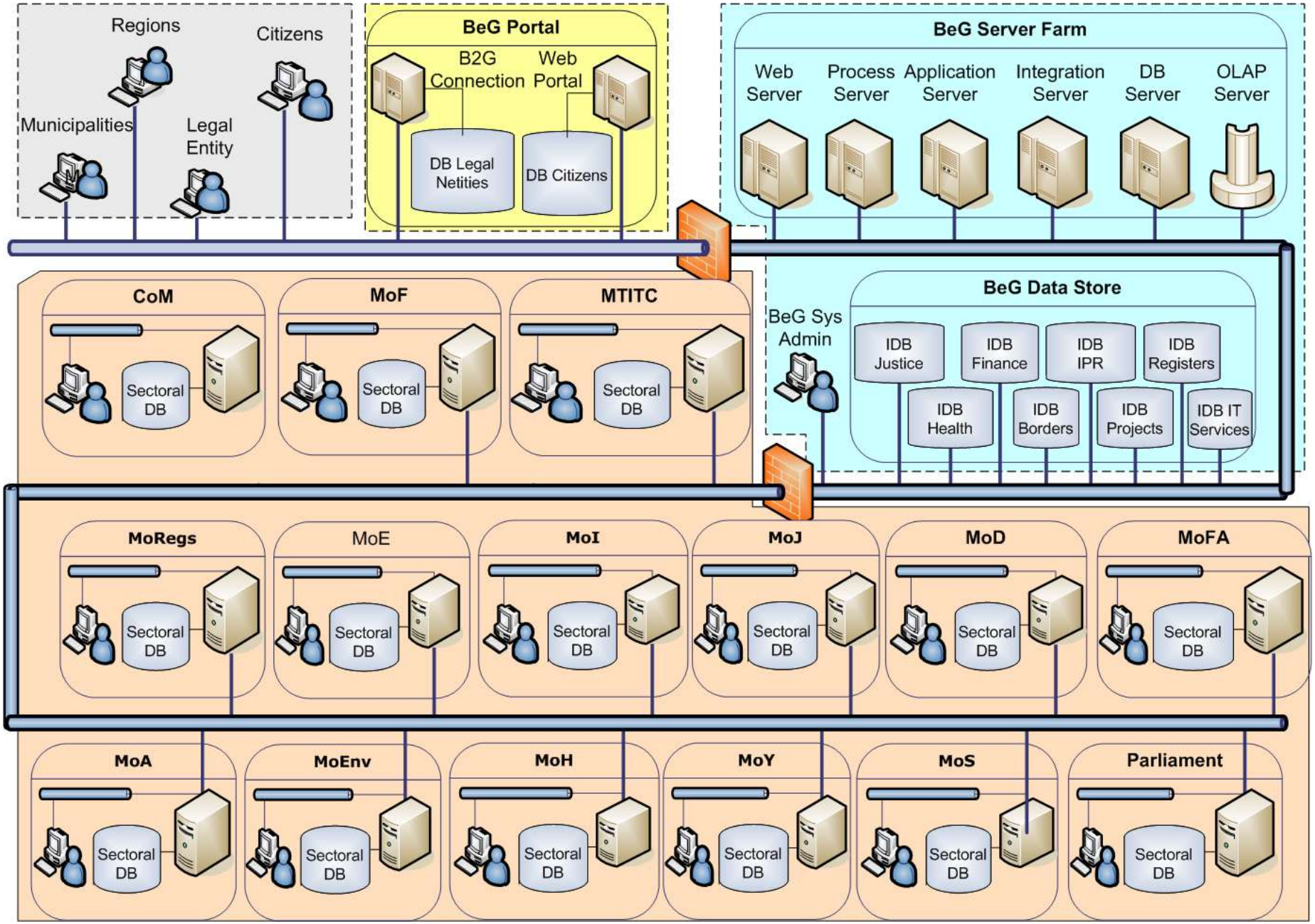
Part 3

eGovernment Technological Framework

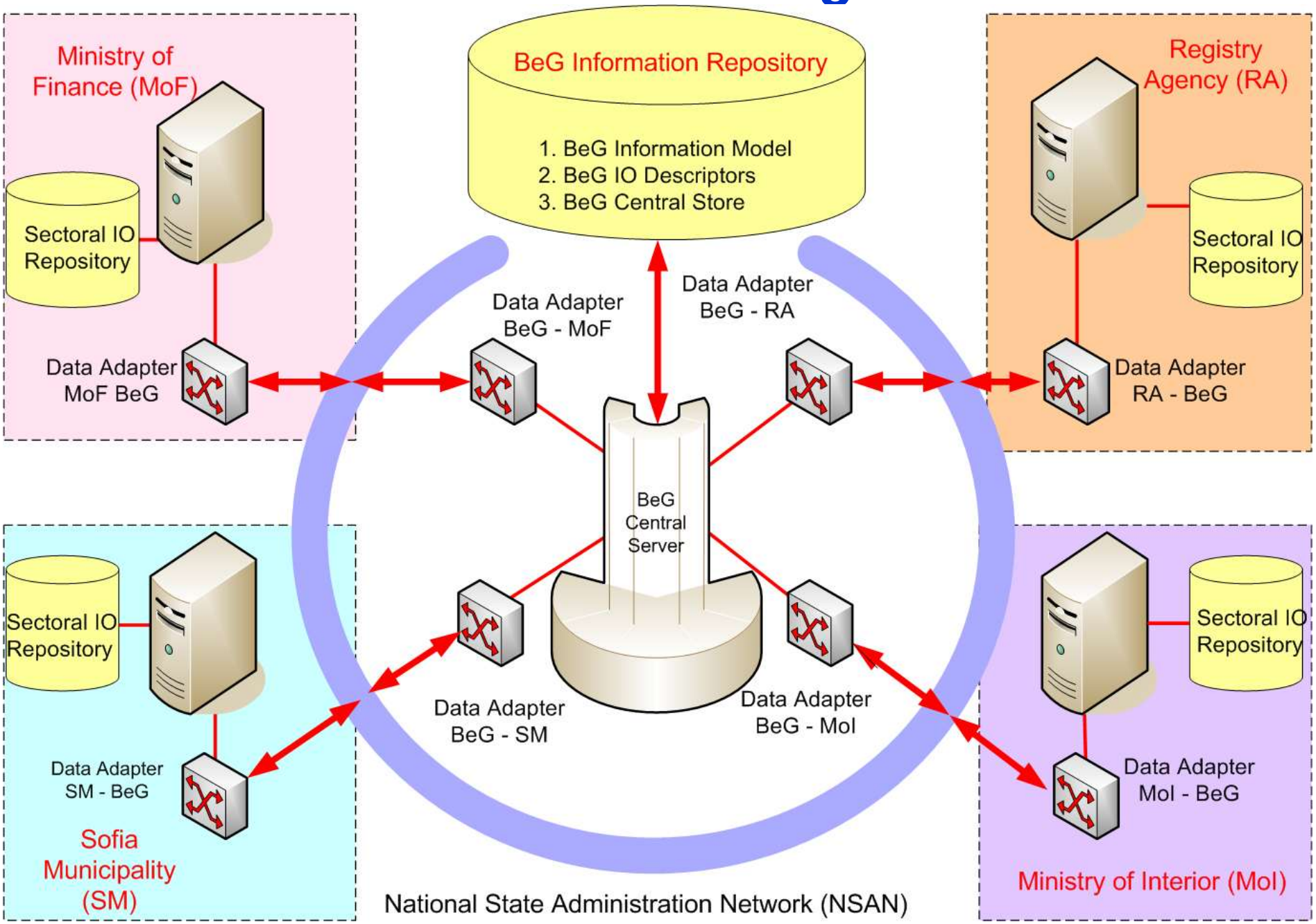
BeG Technological Framework



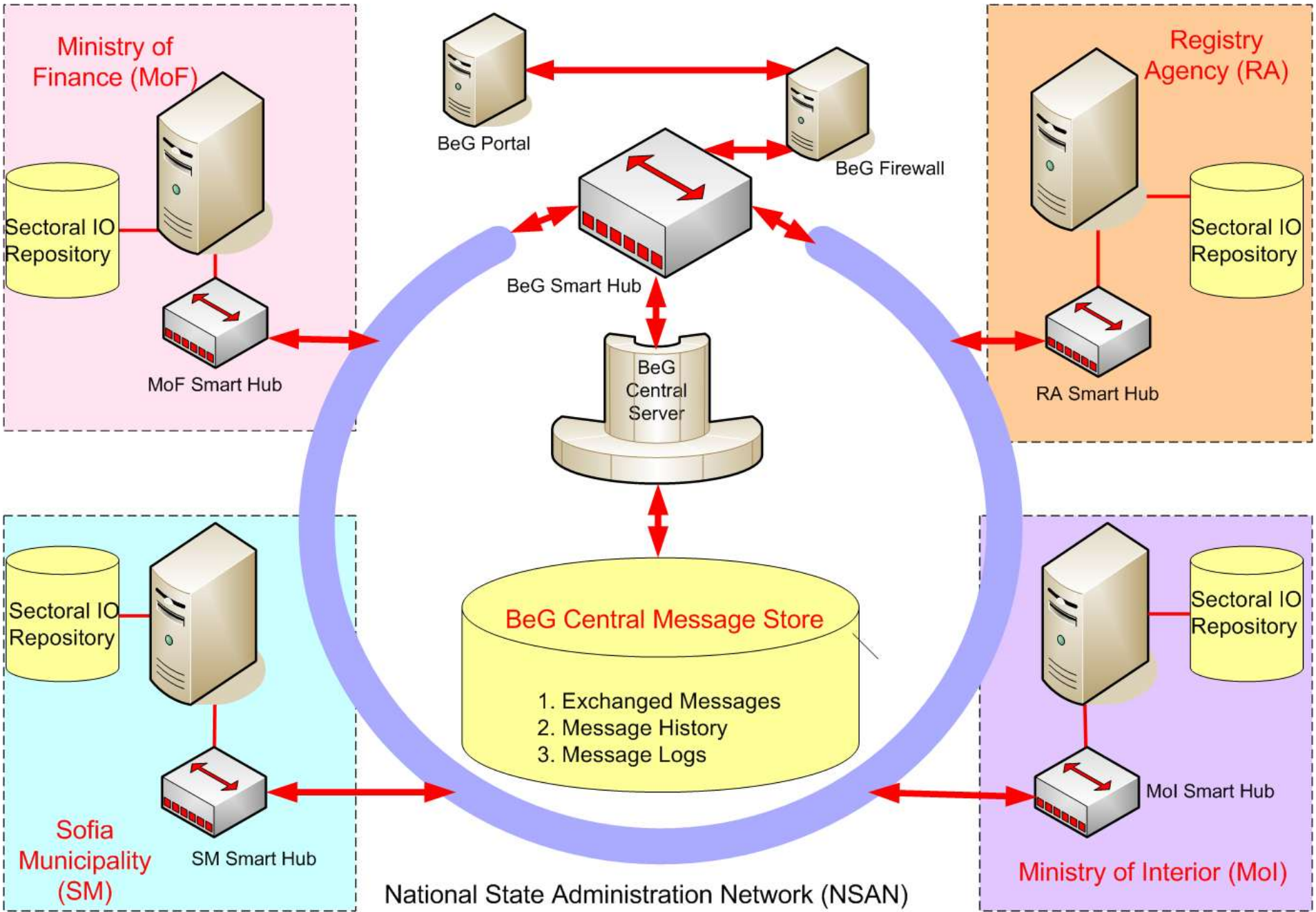
BeG Infrastructure

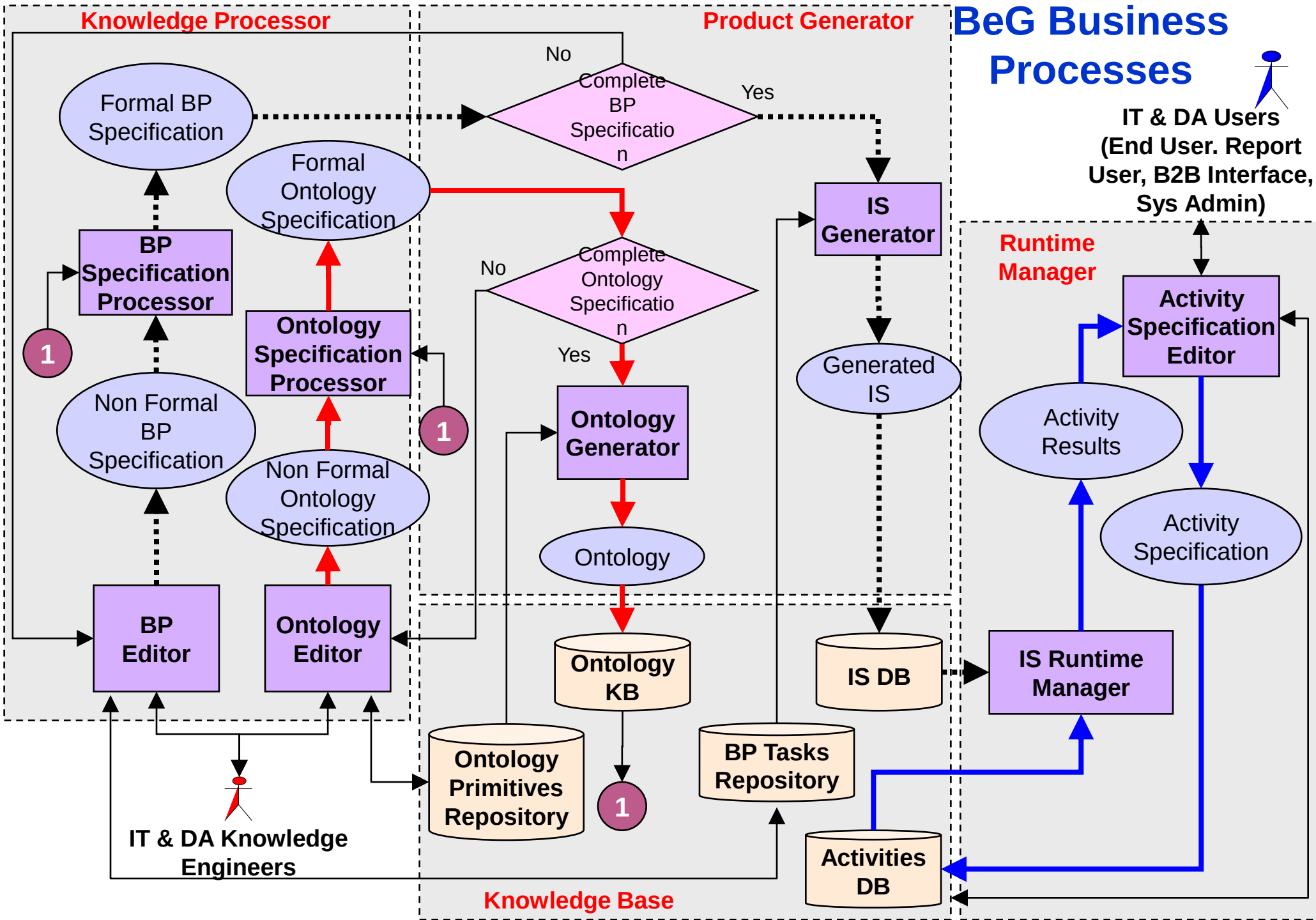


BeG Data Manager

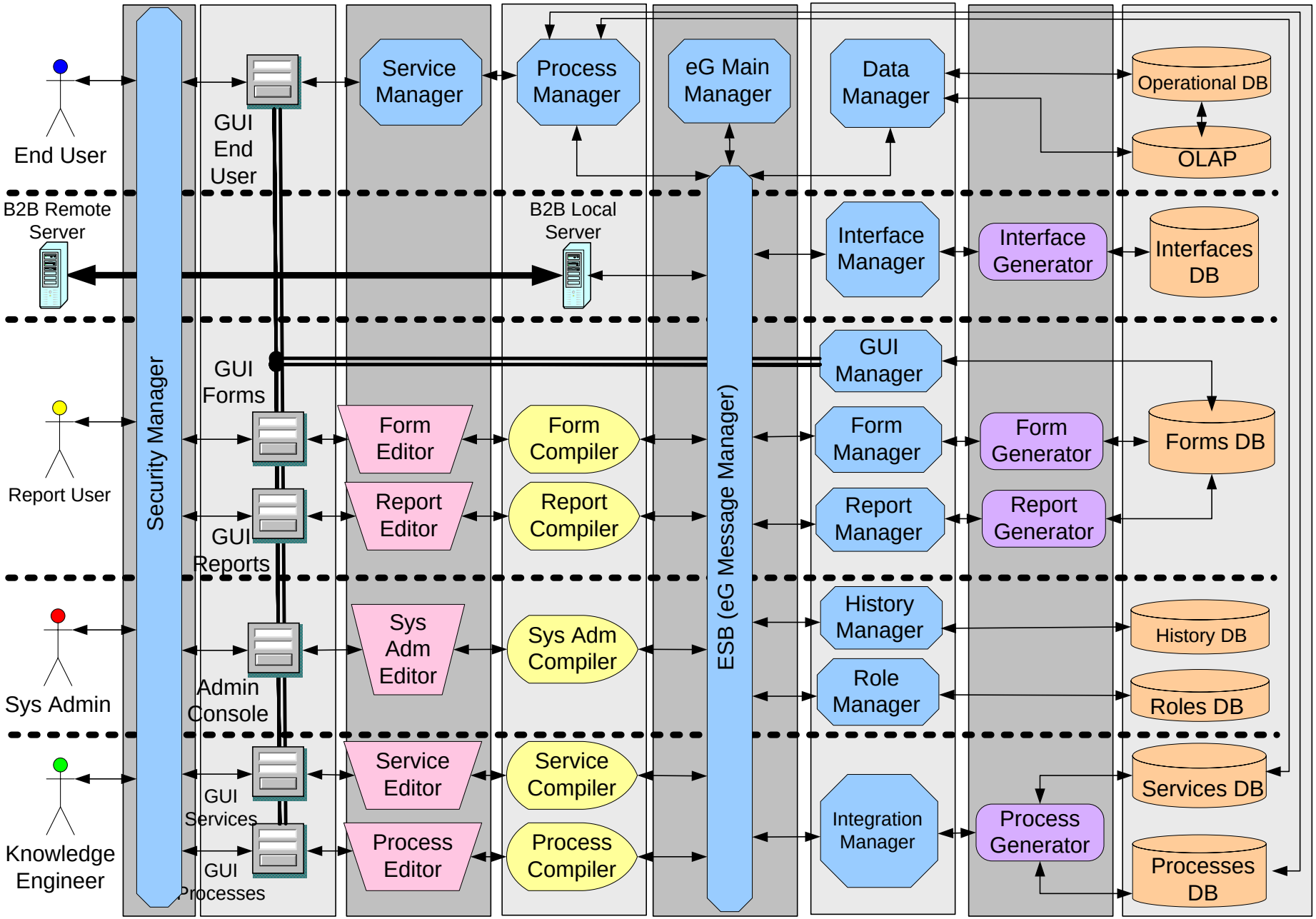


BeG Smart Hub




Knowledge Processor
Product Generator
BeG Business Processes
IT & DA Users
(End User. Report User, B2B Interface, Sys Admin)
Runtime Manager
Formal BP Specification
Complete BP Specification
No
Yes
Formal Ontology Specification
IS Generator
BP Specification Processor
Complete Ontology Specification
No
Yes
Ontology Specification Processor
Generated IS
Activity Specification Editor
1
Non Formal BP Specification
Ontology Generator
Activity Results
Activity Specification
Non Formal Ontology Specification
Ontology
BP Editor
Ontology Editor
Ontology KB
IS DB
IS Runtime Manager
Ontology Primitives Repository
BP Tasks Repository
IT & DA Knowledge Engineers
Activities DB
Knowledge Base

BeG Technological Framework



Practical SOA Effects

- **Big IT company,** with 10 years experience in e-Gov solutions in central and local administration, uses mechanisms allowing the **time for development of new applications** to be reduced by **50%** and **cost reduction** by **70%.**
- **Bulgarian IT company,** experienced in the above mentioned technologies, has demonstrated how can be covered **more than 70 business processes** in local administration with slight changes **in one template process.**
- **Bulgarian IT company,** developing applications for central administration has restructured its own staff reducing the number of programmers and test engineers and increasing the number of business analytics due to implementation of new methodology for **automated generation of multilayer Java applications**. Time for development and tests **is reduced by 50 %.**

Thank you

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