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Deliverable D3.8 Intranet of the Bulgarian Network of RMC

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Revision 1

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Dissemination Level		
PU	Public	
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	X
CO	Confidential, only for members of the consortium (including the Commission Services)	

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1. Introduction

The National Research Mobility web Portal supports researchers at the national level and provides useful information for them. In Bulgaria there are four Mobility Centers – in four Universities in Bulgaria – in the North region of Bulgaria (University of Rousse "Angel Kanchev"), in the East (Technical University Varna), in the South (Trakia University Stara Zagora) and in the West (Sofia - University of National and World Economy). The Mobility Centers in Bulgaria are linked to the National RMP. The Intranet of the Bulgarian Network of RMC is built.

2. Intranet Requirements

Sofia University as a bridgehead organization has commited to the requirements of the European Qality Charter, and has built the National RMP according to the Charter. Subsequently, the main issues to be taken into account include:

- Interoperability
- Ownership
- Quality assurance
- Accessibility
- Principle of non-discrimination
- Confidentiality

The built Intranet among the Mobility Centers follows these priciples.

2.1 General

For building the Architecture of the National RMP were analysed the European Researcher's Mobility Portal requirements. It was considered that the National RMP should fulfil the following:

- the content should be available in English
- the page should have no frames structure
- clear and suitable set of meta-data (web-page description)

2.2 Data Exchange

The National RMP has a dual role – to be an input point for collecting data in the respective areas at national level and to deliver data to the European RMP. For the data exchange with the European RMP is used the Research Jobs Opportunity Editor (RJOE). Subsequently, the data is delivered in a format compatible with RJOE. The data exchange

scheme between the National RMP and the European RMP, as well as between the National RMP and the respective services at regional research mobility centers in Bulgaria is shown on figure 1.
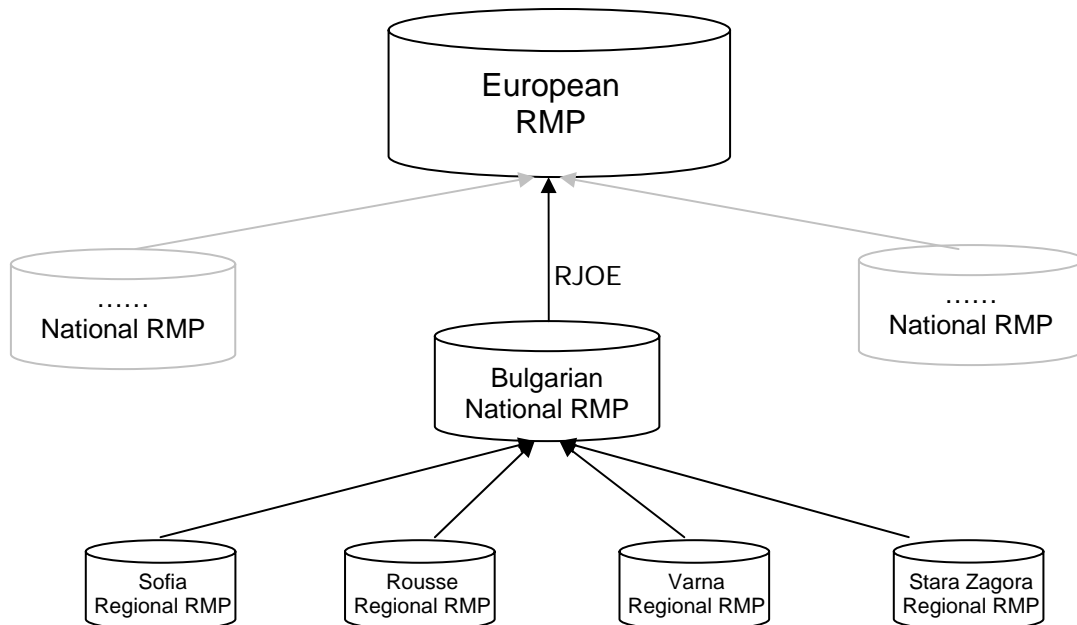

Figure 1 Centralized Data exchange scheme

It is standartisation on core sets of interoperational protocols – the most important part of data exchanging and it is based on:

- Standard technologies;
- Standard-based formats.

The portal collects different types of information that can be gouped in two:

- **Unstructured data** - all the data without any particular format – in deliverables 2.3 and 1.4 there are description of the Information and service databases building and filling in.
- **Structured data** - those data with an agreed format as curriculum vitae, or job vacancies.

The mobility centers support both groups of information available for their regions.

2.3 Database Access Models

For our purposes we use **Central Data Store**

In this model all data is held in central database within the National RMP. Initially, the information will be captured from providers/contributors and then forwarded to the

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central database. The information is then in one definitive location and can be accessed from all services within the National RMP (figure 2).
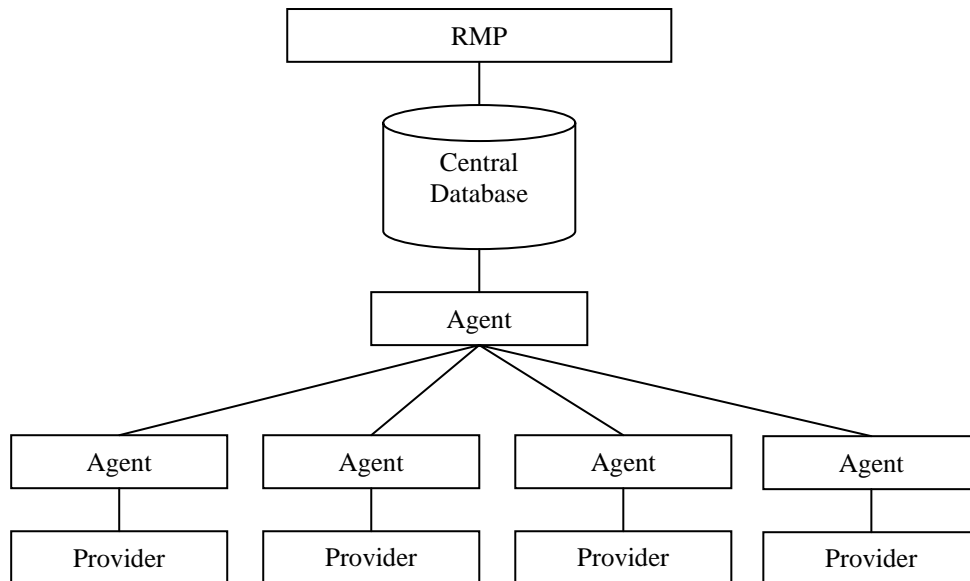

Figure 2 Central Data Store

Application Server

Jakarta Tomcat is an open-source application server that is produced by the Apache Software Foundation. Tomcat is the reference implementation for the Java Servlet and Java Server Pages technologies.

The advantages of Jakarta Tomcat Application Server are:
- Keeps the system secure and stable.
- Makes it easy for developers to add applications.
- Provides access to databases over JDBC and ODBC interfaces to RDBMS such as Oracle, MySQL, PostgreSQL, DB2, etc.
- Provides redundancy so that applications could continue running despite the outage of a single server.
- Open Source and cost free

RJOE

The tool RJOE was distributed to the Regional Mobility Centers and they use it to deliver information to the National RMP as well as to the European RMP (for Job Vacancies).

3.   Coordination of the building of the Intranet

The building of Intranet is a process which included:

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- Workshops with collegues from the Regional Mobility Centers – where were explained the manner of buildin of the intranet: resources hardware and software requirements

- Distribution of RJOE

- Virtuial support (via Internet) during the process of set up the Intranet. This still continues.

- At the NRMC was opened a restricted zone for the people from the centres it was on http://kit.fmi.uni-sofia.bg where were published all materials about the portals and additional for inter-centers work but for technical reason the server was down. It is in process of rebuilding now.

4. Conclusion

The web portal has a key role for the effective cooperation and coordination of the RMC in Bulgaria as well as to all organizations, participating in such mobility activities. It is also effectively linked to the European Researcher's Mobility Portal. Subsequently, the portal provides a set of practical information to mobile researchers and news of interest to the scientific community, as well as opportunity to search for research grants and/or job vacancies.

In some of the centers there are objective causes to finishing the Intranet but it will be coming soon.