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**Joint UNECE/Eurostat Seminar on Integrated Statistical
Information Systems and Related Matters (ISIS 2002)**
(17-19 April 2002, Geneva, Switzerland)

Topic III: Object-oriented technologies, component architecture

**DEVELOPMENT OF AN INTEGRATED STATISTICAL DATA
MANAGEMENT SYSTEM – THE LATVIAN EXPERIENCE**

Invited paper

Submitted by the Central Statistical Bureau of Latvia¹

Summary

1. The aim of this report is to introduce participants to the new Integrated Statistical Data Management System (ISDMS) of the Central Statistical Bureau of Latvia (CSB), which has been developed as a prototype based on international experience in statistical data processing.
2. From 1997 to 1999 CSB experts prepared the technical specifications of ISDMS, which described all technical and functional requirements for a system where metadata are used as the key element in statistical data processing.
3. The main objectives for the improvement of business and information technology that the CSB intends to achieve as a result of the project have been identified as follows:
 - a) to increase efficiency of the main process at CSB – production of statistical information – through the use of information technology;
 - b) to increase the quality of the statistical information produced;
 - c) to improve processes of statistical data analysis;
 - d) to modernize and increase the quality of data dissemination.
4. **Technical platforms and used standard software.** The proposed system under development is in line with the CSB IT strategy and the existing computer and network infrastructure was used. During the year 2000 all necessary complementary IT infrastructure components for ISDMS – powerful servers, upgrade of existing LAN at CSB central office, WAN, firewall system, IP telephony system, standard software licences were delivered. It was decided that CSB should standardize on Microsoft products.

¹ Prepared by Karlis Zeila (kzeila@csb.lv).

5. The invited paper from the Meeting on the Management of Statistical Information Technology (Geneva, Switzerland, 15-17 February 1999) “An information systems architecture for national and international statistical organizations” prepared by Mr. Bo Sundgren was used as a basis for **ISDMS architecture**.

6. ISDMS is divided into several business application software modules:

- a) Metadata base module;
- b) Registers module;
- c) Data entry and validation module;
- d) Data aggregation module;
- e) Data analysis module (OLAP);
- f) Data dissemination module.

7. **System development and implementation schedule.** Twenty-one surveys that used as the basis for the system performance testing and acceptance were selected. The project implementation process was divided into two steps:

- i) implementation of 5 selected surveys and Business register – pilot project;
- ii) implementation of 16 surveys, Population register, Agriculture register and Data dissemination module.

8. The paper also gives an overview of the lessons learned during the development and implementation of the system, and of visions and expectations for the future.