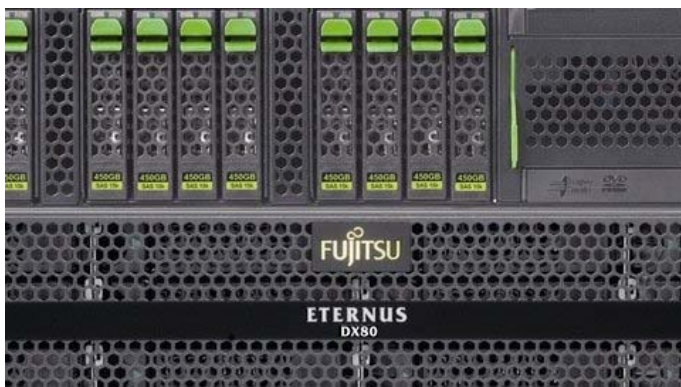


# Case Study

## Statistical Office of the Republic of Slovenia

"The key advantage of the new system is that it allows us to securely copy data to one or more backup locations. Using data deduplication technique has considerably reduced the amounts of data being transferred over LAN using VTL technology and enabled rapid data storage and restore – reaching speeds of up to 3.6 TB/h."

Milan Kajič, development engineer at the Statistical Office of the Republic of Slovenia



### About the customer

Statistical Office of the Republic of Slovenia is the main producer and coordinator of national programs for statistical surveys. In addition to linking and coordinating the statistical system, its most important tasks include international cooperation, determining methodological and classification standards, anticipating users' needs, collection, processing and dissemination of data, and taking care of data confidentiality. With the help of authorized producers, the Office provides to public administration bodies and organizations, the economy and the public data on the status and trends in the economic, demographic and social fields, as well as in the field of environment and natural resources.

### Customer

Country: Slovenia  
 Industry: public sector  
 Year of establishment: 1991  
 Website: [www.stat.si](http://www.stat.si)



### About the challenge

The Statistical Office of the Republic of Slovenia (SORS) continuously processes data. One of the greatest challenges its employees are faced with is working with older databases, which users necessarily need in the course of their work, but their operative media usually lack the required storage capacity. Data not in use are therefore often transferred to other, cheaper media. The longer the storage time, the higher the costs. With very old data, because of the media quality, the data must even be rewritten.

### Challenge

The Statistical Office of the Republic of Slovenia (SORS) continuously processes data. One of the greatest challenges its employees are faced with is working with older databases, which users necessarily need in the course of their work, but their operative media usually lack the required storage capacity. Data not in use are therefore often transferred to other, cheaper media. The longer the storage time, the higher the costs.

### About the solution

Fujitsu implemented their data backup system ETERNUS CS800 S2 at SORS. The system enables the Office to quickly copy and process data from various storage media. Using strong encryption makes sure sensitive data are safely copied to a backup location. The system is based on advanced deduplication technology, reducing the volumes of data to be backed up (by up to 95 %) and enabling cost effective storage of backup copies to high capacity disc systems and thereby reducing the overall costs of owning the solution. Fujitsu provided for the implementation of ETERNUS CS800 solution into the existing information environment and made sure it was linked with other working systems and networks. SORS chose an advanced data backup solution characterized by speed and scalability.

### Solution

Fujitsu provided a modern data backup infrastructure using ETERNUS CS800 S2 solution that SORS uses to back up data. The system uses advanced deduplication technology, reducing typical capacity requirements for backup by up to 95 percent. This enables backing up data to high capacity backup storage systems with backup speeds of up to 3.6 TB/h.

## Benefits

- Ease of use and integration into existing backup environments.
- 'in-line' deduplication technology based on variable blocks significantly reduces the amount of data needed to store and copy data.
- Simultaneous use of virtual capacities and NAS storage.

## Benefits

Fujitsu ETERNUS CS800 S2 backup appliance guarantees high data security and offers unique approach to data backup. This is ensured through flexible and cost effective use of disc and (virtual) tape media for data processing and storage. For enhanced storage performance, the system uses so called 'in-line' deduplication technology with variable blocks, reducing the required data storage capacities by up to 95 percent.

Fujitsu ETERNUS CS800 S2 appliance automatically manages all functions related to deduplication and data duplication as well as software and hardware settings. System also automatically optimizes data security in line with network topography. The solution enables simple scalability up to the capacity of 160 TB (usable capacity) and simply links into the existing data protection environment.

Fujitsu ETERNUS CS800 S2 appliance ensures simple and fast backup to chosen storage media. The technology applied allows using so called virtual memory libraries which accelerate the creation of backup copies and reduce the timeframe needed for backup. By implementing Fujitsu ETERNUS CS800 S2, SORS has reduced their time spent for data backup by 40 percent.

- ETERNUS CS800 S2 virtual library also enables writing to a physical tape library using 'path to tape' (PTT) technology.
- Virtual media (disc drives) enable faster backup and data restore processes.
- 'In-line' deduplication technology with variable blocks considerably reduces the amount of data required for backup.
- Restoring data backed up using this process is also significantly faster – reaching speeds of up to 3.6 TB/h within the implemented environment.

- Robustness of the solution – all key building blocks are doubled.
- VTL technology allowing users to take advantage of virtual libraries (combining speed and reliability)
- Scalability to customer's needs

## Conclusion

Working environment within SORS with over one hundred users and strict requirements in line with ISO27001 now ensures reliable and safe document storage.

**"Safe and reliable data storage is crucial to any organization, especially in case of high ranking government institutions such as the Statistical Office. We are very satisfied with our modernized data backup infrastructure using Fujitsu solutions, as it has helped us to cut the time needed to back up data and statistical processes significantly. The key benefits of the new system are the speed of data backup (timeframe reduction) and system scalability. Using data deduplication technology has allowed us to considerably reduce the necessary storage capacities for data storage. And the advanced virtual library technologies enable rapid data storage and restore with speeds of up to 3.6 TB/h,"** says Milan Kajič, development engineer at the Statistical Office of the Republic of Slovenia.

During the implementation, experts from Fujitsu and Our Space Appliances (participating in the project as system integrators) have proved that they excel in information security. The solution implemented allows the customer simpler, faster and cheaper storage of sensitive data.

## About Fujitsu Technology Solutions

Fujitsu Technology Solutions is the leading European IT infrastructure provider with a presence in all key markets in Europe, the Middle East and Africa, plus India, serving large-, medium- and small-sized companies as well as consumers. With its Dynamic Infrastructures approach, the company offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure-as-a-Service. Fujitsu Technology Solutions employs more than 13,000 people and is part of the global Fujitsu Group.

## Contact

Tomaž Kužnik  
Fujitsu Technology Solutions GmbH  
Ljubljana office  
Address: Kamniška 41, 1000 Ljubljana, Slovenia  
Phone: +386 1 401 24 25  
Fax: +386 1 401 24 29  
Email: tomaz.kuznik@ts.fujitsu.com  
Website: www.fujitsu.com/si/