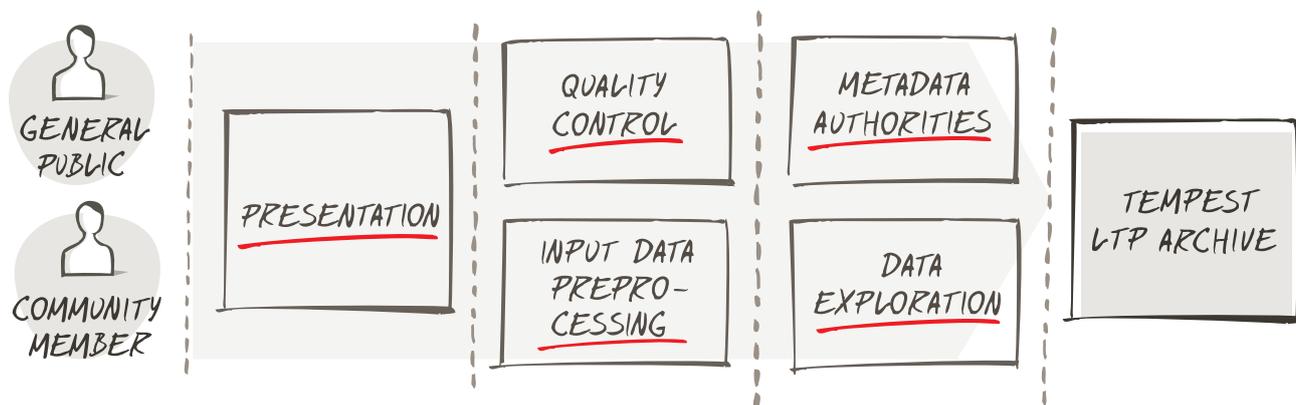# Central Archiving Platform (CAP)

Central Archiving Platform (CAP) is a complex integrated system for a long-term storage, processing, securing and usage of any digital data. CAP provides a solution for recording, collection, archiving and data protection as well as web-harvesting and web-archiving task options. The system can also be used as a basis for a systematic digitization of any kind of analog information. Beside the long-term data storage, the main benefit of CAP is the institutionalization of digital archives meeting international norms and standards. Therefore, a part of the solution is a broad know-how defining the legislation norms, data processing and methodology for long-term data storage, imparting of the information in the archive and further content handling.

Benefits:

- long-term data storage and protection
- top security level
- conformity with the legislation norms, data processing and methodology for content handling and management
- compliance with the international criteria and standards
- modularity, scalability, robustness and expandability

CAP DIAGRAM

GENERAL PUBLIC

COMMUNITY MEMBER

PRESENTATION

QUALITY CONTROL

INPUT DATA PREPRO-CESSING

METADATA AUTHORITIES

DATA EXPLORATION

TEMPEST LTP ARCHIVE

CAP SERVICES

CAP provides long-term digital data archiving services meeting the OAIS standard (Open Archival Information System). The main purpose for such an archive is to keep the data secure, legible and understandable. Therefore, CAP's focus is on monitoring the lifetime cycle of stored data formats and their conversion/emulation as well as their bit protection.

Our system also provides a support for identification and selection of formats suitable for archiving, legislation support and data selection variability. The archived objects are secured and the solution is fully compliant with the legal norms on intellectual property.

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LOGISTICS

Data delivery can be realized online or using a specialized logistics system that could be included in the CAP solution. This delivery service grants the appropriate conditions for shipping, handling, packaging, labeling and protection for a broad range of data carriers - from magnetic tapes to optical media.

SECURITY

Any online communication of external subjects is encrypted and all sensitive operations are protected by a two-factor authentication. The CAP solution implements sophisticated watermarking mechanisms to ensure a high level of consistency and authenticity of data information.

REDUNDANCY

When required, the system can store backup copies in several geographically-dispersed data centers. These centers, equipped with appropriate hardware and software, are mutally interconnected via a data communication network. CAP solution can also include a passive storage of data carrier media.

Every single information in the archive can be stored on several separate data carriers that are physically stored on geographically-dispersed localities. Once these data are loaded, they represent a functioning system fulfilling its original information purpose. Several other localities serve as "safeboxes" for a long-term data carrier storage.

DATA PROTECTION

Beside a multiple physical redundancy, CAP also implements the most advanced principles of logical data protection with the aim to ensure the long-term storage while maintaining reliability, quality of service and granting an instant access to the stored information. Adjustable input processing based on a plug-in architecture allows expandability and future secure usage of the system. The same principles are being utilized in LTP processes, format management, data security planning and risk evaluation.

FORMAT LIFE CYCLE MANAGEMENT

Modern management tools for data security planning offer their own data format management system. This system collects the information (from several sources and external databases) about the formats being stored in the archive. The solution also supports a manual evaluation and format processing – in particular with rare or new data formats. These tools allow the data management during the entire life cycle of the format - from a planning phase to a conversion into a new format.

SCALABILITY AND RELIABILITY

The scalability of CAP is unlimited. The platform can function as a single server or as a robust Geo-cluster solution containing petabytes of information.

ADVANCED TECHNOLOGY

The Platform is built with the most advanced technology utilizing modern architecture and computing principles that are used by large-scale data processing. The main purpose of it is to be prepared for future upgrades, enhancements and modernization. The main architecture of the system grants modularity, scalability, robustness and expandability of the entire solution.

OPEN SYSTEM

CAP is designed as on open system for any future possible expansion requirements. The system is fully independent from hardware manufacturers/suppliers and combines open-source and enterprise tools.

WHY TEMPEST AND CENTRAL ARCHIVING PLATFORM?

Our company has had a longtime experience with solutions for the largest data archives in Slovakia. The CAP is a platform independent plug-in system, ready to operate on service-oriented architecture (SOA). CAP is ISO 16363 (OAIS) certification ready and meets the security criteria defined by ISO 27000 norm.

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