



Annex 6: IT platforms implemented in 2024

I. Applications with direct access to end-users, prosecutors, police, clerks:

A. Computerised system for calculating the complexity of prosecutors' work - SAS

"Optimisation of the Management Activity at the Judicial System Level. The Prosecution Service Component"

Overall Objective

The SAS information system has as its main objective the development and implementation of a digital application dedicated to the optimisation of management activities in the judicial system, with a particular focus on the prosecution service component. This platform has been created to streamline the operational processes, facilitating the analysis and monitoring of activities carried out by prosecutors, based on objective performance and complexity indicators.

Functionalities and how it works

- **Use of data from ECRIS III.** The SAS platform integrates with the ECRIS III (Case Management Information System) application, extracting the structured data needed to calculate performance indicators. Data is processed automatically, eliminating the need for manual input and reducing the risk of human error.

- **Application of algorithms for the calculation of complexity.** SAS uses sophisticated algorithms to analyse and evaluate the activities of prosecutors, taking into account a number of factors, such as the typology of cases, the difficulty of the activities carried out, the workload associated with each casefile, the duration and results of specific activities.

- **Generate and display reports.** SAS allows to obtain and display in real time the required reports, providing: centralised reports at the prosecutor's offices level, comparative statistics between different prosecutor's offices, individual indicators for prosecutors' activity. These reports support the management of prosecutor's offices in making informed decisions based on specific and structured data.

- **Optimise resource management.** The platform facilitates the balanced distribution of workload among prosecutors, identifying possible discrepancies or overloads and supports the process of allocating human resources according to the complexity and volume of activities, thus ensuring an efficient management.

Benefits brought by SAS:

- **Operational efficiency:** Computerising the process of calculating and generating reports reduces the time and effort required to evaluate activities.
- **Transparency and objectivity:** The calculated indicators provide a clear and unbiased picture of the **complexity of the activities** carried out in the prosecution services.
- **Improved management:** The accurate data and the reports generated contribute to better **strategic planning and resource allocation**.

- **Performance monitoring:** It facilitates the evaluation of activities at individual and institutional level, providing an effective tool for **continuous performance improvement**.
- **Integration and interoperability:** Integrated operation with ECRIS III ensures optimal use of existing infrastructure without requiring redundant processes.

The computerised system for calculating the complexity of prosecutors' work - SAS is an essential step in the modernisation and digitalization of management activities in the judiciary, with a focus on the prosecutor's offices. The implementation of this system ensures transparency, efficiency and performance in the process of evaluation and management of prosecutors' activities, thus strengthening the operational capacity of the Public Ministry.

B. Document Management Information System - ELO; Platform installed on both networks - *Portal*

Overall Objective

Implement an electronic document management system, implement a collaborative portal system to strengthen the administrative capacity of the Public Ministry. The project aimed to create a secure web-based platform, accessible to all employees of the Public Ministry, to improve intra- and inter-institutional communication and management of administrative activities.

Stage of the Project

The final acceptance of the system has been achieved and the platform is fully operational, being used in all prosecution units in the country.

www.elo.mpublic.ro

www.portal.mpublic.ro

www.portal.wan.mpr

Specific Objectives

1. Improve intra- and inter-institutional communication by creating a digital environment for the exchange of information among prosecution units and standardise administrative processes by using a single platform.
2. Digitalise administrative activities (which do not relate to criminal casefiles) and circulate documents electronically to reduce reliance on manual processes.
3. Provide access to relevant information for the Public Ministry staff. Facilitate secure and rapid access to information and documents of interest to the staff of the institution.

Benefits obtained

1. Fast and standardised access to documents and information. The platform allows access to documents in a uniform and fast way, eliminating downtime in administrative processes.

2. Secure and controlled access. The use of advanced security mechanisms ensures that data is protected and access is limited according to roles and responsibilities.

3. Reduced document processing and search times. Computerisation of some administrative operations has led to the elimination of redundant tasks and made workflows more efficient.

4. Simultaneous access for multiple users. Documents can be consulted by several people simultaneously, facilitating collaboration and quick decision-making.

5. Elimination of redundant operations. The computerisation of some processes has allowed a more efficient allocation of resources to the core activities of the Public Ministry.

C. Document Transfer Platform - *Transfer*

The document transfer platform - `transfer.mpublic.ro` respectively `transfer.wan.mpr` - has been implemented and was implemented starting 01.01.2024, with the main objective of strengthening the capacity to transfer documents in a secure and electronic way, in compliance with the current requirements of digitalization and data protection.

The platform offers the following functionalities and benefits:

- **Secure transfer of documents.** The use of modern encryption technologies guarantees the protection of transmitted data. It ensures the confidentiality, integrity and availability of documents during transfer.

- **Efficient transfer among users.** It allows prosecutors, clerks, and other authorised users to send and receive documents in real time, significantly reducing the time it takes to process and deliver information. It provides an intuitive, user-friendly interface so that access to the platform and use of the functions are efficient for all users.

- **Inter-institutional collaboration.** It facilitates the transfer of documents between the Public Ministry and other partner institutions such as courts, police, national and international authorities. It contributes to workflow optimisation and to increased transparency in institutional relations.

- **Compliance with security standards.** The platform is configured to comply with high cybersecurity standards and regulations on the protection of sensitive data, in accordance with the legislation in force. Access is controlled and allowed to authorised users only, with additional authentication and activity monitoring measures in place.

- **Traceability and auditing.** The platform provides functionalities for tracking transferred documents, ensuring full traceability of the operations performed and allows the generation of reports and auditing of activities for continuous monitoring and incident prevention.

By implementing `Transfer.mpublic.ro`, the Public Ministry benefits from a modern and robust tool that improves information security and the efficiency of the document transfer process. This platform meets the current requirements of the institutional activity, contributing to a fast, secure and integrated communication among users as well as among collaborating institutions.

D. Platform for the management of the activities of the International Judicial Cooperation Service - eCooperation. The application for the monitoring and management of international cooperation activities is a modern tool specifically developed to meet the operational and statistical requirements of the Romanian Public Ministry. Designed to provide a clear and centralised view of the activities in this field, the application uses the latest technologies in web development: Laravel for the backend, MySQL for database management and Vue.js for an intuitive and dynamic front-end.

Main characteristics:

- **Record of international cooperation activity.** The application centralises all relevant data on international cooperation requests and procedures and allows real-time tracking of the evolution of activities carried out within the entire Public Ministry.

- **Generation of complex statistics.** Possibility to extract statistical data according to time interval (first semester - 6 months or yearly - 12 months). The reports are accurate and can be used

for strategic analysis and decision making.

- **Access system with cascading rights.** Rights of use and access to information are managed at several levels, depending on the roles and responsibilities of users. The activity is coordinated by the Prosecutor's Office attached to the High Court of Cassation and Justice, which provides overall supervision of the use of the application.

- **Modern, user-friendly interface.** The design of the application is intuitive, making it easy to navigate even for users with limited technical experience. Functionalities are designed to improve efficiency and reduce data processing times.

- **Compliance with modern security and efficiency standards.** Built on state-of-the-art technologies, the application meets the highest standards of performance and security. It ensures data integrity and protection of sensitive information.

- **Managing documents specific to international cooperation services.** The application includes a module dedicated to the management of documents used by international cooperation services within the prosecution services to track the progress of work. It enables quick storage, categorisation and access to relevant documents, including requests, replies and other official materials. Its integration with the workflow of prosecutors' offices ensures full traceability of documents and reduces the risk of loss or mishandling.

This application represents an important step in the digitalization of processes in the Public Ministry, providing an integrated solution to support both operational activity and strategic reporting needs.

II. Indirect access for users:

A. Integrated communication system - Routers - NRRP

Objective and Background

The project has been funded by the National Resilience and Recovery Program (NRRP) and its main goal is to strengthen the integrated communication system at national level. The implementation of this system is an essential step for the modernisation of the IT infrastructure within the Public Ministry, ensuring secure and efficient communications of the Prosecutor's Office attached to the High Court of Cassation and Justice (PICCJ) with all territorial prosecution units throughout the country.

Main characteristics:

1. A unified national infrastructure. The integrated communications system - Routers of the latest generation in all units in the territory centrally connects the PICCJ headquarters with the prosecutor's offices in the country and ensures the stability and continuity of communications, regardless of distance or traffic level.

2. Secure and safe communications. The system enables encrypted and secure communications, protecting the integrity and confidentiality of data transmitted over the network and uses advanced security protocols to prevent unauthorised access and possible cyber-attacks.

3. A high level of perimeter protection. The system integrates advanced perimeter protection solutions at the network level, including state-of-the-art firewalls for traffic filtering and intrusion prevention. Continuous traffic monitoring to identify and block suspicious behaviour.

4. Optimise access to data. It provides fast and secure connectivity for all IT applications used in the Public Ministry. It facilitates secure access to central databases and applications critical to the work of the prosecution services.

5. Resilience and redundancy. The system is designed to have a high degree of redundancy and reliability, preventing unplanned communication outages. It allows to automatically reroute traffic in case of technical incidents, so that the work of the prosecution services is not affected.

Major Benefits

- **Strengthening communications security:** Deploying secure communication solutions protects the networked data against unauthorised access and cyber-attacks.

- **Increasing operational efficiency:** The modernised infrastructure provides **fast and stable communication**, facilitating real-time activities between headquarters and territorial units.

- **Advanced protection at network level:** Integrating perimeter protection solutions helps **reduce the risks** associated with cyber threats and unauthorised access.

- **Stability and redundancy:** The system provides **operational continuity**, eliminating the risks associated with communication interruptions.

The Integrated Communication System - Routers, implemented through NRRP funds, represents a crucial investment for the **modernisation and consolidation of communications** within the Public Ministry. This infrastructure provides **secure, fast and resilient communications**, facilitating specific activities in a protected and efficient environment.

B. Email Upgrade and Specific Upgrades Required

Overall objective

Improving the activities of the Public Ministry through the implementation of modern IT solutions to support users in carrying out criminal prosecution activities swiftly and in optimal conditions.

Specific objective

Equipping the institution with state-of-the-art electronic collaboration and communication solutions, with superior technical performance and advanced capabilities, facilitating fast and secure access to existing IT systems, IT systems under implementation and to future applications.

Outcomes:

1. Migrating users to a modern messaging system. All users have been migrated from the old Linux-based Postfix system to the new email solution, with no data loss and no disruptions of service.

2. Upgrading to Microsoft Active Directory Functional Level 2016. The upgrade allowed for easy integration with new electronic collaboration and communication solutions, improving user administration and security.

3. Strengthening security and preparing for extension. The foundations have been laid for the national extension of additional security components to be implemented through the NRRP, ensuring a robust infrastructure for future applications.

Although the project is now finalised, the following issues remain relevant:

- Monitoring the performance of the system to identify any adjustment needs.
- Implementing additional security components through the NRRP to strengthen protection at national level.
- Continuous user training to ensure optimal use of the new infrastructure.

This project is an essential step in the modernisation of the electronic messaging infrastructure of the Public Ministry, supporting the activities of the institution through faster, more secure and more efficient collaboration and communication solutions.

C. Integrated Storage System and Secure Access to PICCJ Data

Overall objective

Extension of storage capacity and implementation of an advanced cybersecurity solution to protect access to critical PICCJ data. This system integrates modern storage and optimisation technologies, as well as advanced protection against cyber-attacks, thereby ensuring operational continuity, availability and security of the Public Ministry's digital resources.

Background

The need to extend and secure the IT infrastructure of the PICCJ is justified by several factors:

1. Current storage capacity almost depleted. The unified storage system is being 95% utilized. Physical servers are physically and morally worn out, requiring relocation to virtual environments to ensure resource availability.

2. Increased storage requirements for essential projects:

- **Exchange 2019 Platform:** Extension of space for email, webmail and mobile mail solutions, where existing capacity is already 85% utilised.

- **eEvidence:** Implementation of the requirements of Directive 2014/41/EU on the European Investigation Order in criminal matters.

- **SIPOCA 53 Project:** Support for the implementation of the new provisions of the criminal codes.

3. Increasing cyber risks. The number and intensity of cyber-attacks on critical infrastructure has increased significantly. It is necessary to implement a state-of-the-art firewall to protect the network and data in critical DMZs (INTRANET and INTERNET).

The solution proposed:

1. Extension of the storage capacity by increasing the capacity of the unified storage system by 146 TB usable, based on a Unity 680F controller (minimum 3 years support), implementing an intelligent storage and optimisation solution using deduplication algorithms to reduce the required space, automatic data backup and replication to the disaster recovery centre located at PCA [i.e.: Prosecutor's Office attached to the Court of Appeal] Braşov.

2. Cybersecurity solution - Next Generation Firewall. Detection and protection against advanced cyber threats. Granular access control of web and internal network traffic. Protection of data in DMZs (INTRANET and INTERNET), including in inter-institutional collaboration or telework (work from home) scenarios.

Targets and milestones:

1. Final target: Implementation of an integrated storage and security system, functional and capable of supporting the current and future needs of the Public Ministry.

2. Stage milestones:

- Extension of storage capacity by **146 TB usable** and integration of the Unity 680F controller.
- Installation and configuration of two storage and optimisation equipment in the main datacentre (PICCJ) and the secondary datacentre (PCA Braşov).
- Installation and configuration of a Next Generation Firewall protection system.
- Testing and validating the functionality of the implemented solutions.

Benefits offered:

- Extended storage capacity. Possibility to support critical solutions such as Exchange 2019, eEvidence and SIPOCA projects.
- Optimisation and efficiency. The use of advanced deduplication algorithms to reduce the required storage space. Dynamic and automated access to resources with 24/7 availability.
- Operational continuity. Automatic replication of data to the disaster recovery centre, ensuring resilience in case of incidents.
- Advanced security. Protection against cyber-attacks and ensuring the integrity of critical data in the DMZ.
- Flexibility and sustainability. Relocation of physical servers to virtual environments, thus lowering dependence on morally worn-out equipment.

Status of implementation.

The project is now **completed** and has included the following stages:

- The finalisation of the technical requirements assessment and equipment procurement.
- The installation of the Unity 680F controller and the extension of storage capacity.
- Configuration of storage and replication equipment in the two datacentres (PICCJ and PCA Braşov).
- Implementation and configuration of the Next Generation Firewall solution.

This integrated system provides users within the Public Ministry with a scalable, secure and optimised infrastructure, essential for the efficient conduct of their activities.