

PAPERLESS HOSPITAL

ELECTRONIC ARCHIVING OF MEDICAL DOCUMENTATION

A UNIQUE SOLUTION CONCEPT ALLOWING A HEALTHCARE FACILITY TO GRADUALLY ADAPT TO THE PAPERLESS PROCESSING AND STORAGE OF ALL MEDICAL DOCUMENTATION. A HEALTHCARE-ORIENTED ARCHIVE OF COMPLETE MEDICAL DOCUMENTATION IS AN AFFORDABLE SOLUTION FOR MODERN HEALTHCARE IN THE 21ST CENTURY.

[PAPERLESS OPERATION – A HEALTHCARE REVOLUTION]

Paperless operation is a comprehensive electronic healthcare solution enabling the storage, distribution and safe, long-term and trustworthy archiving of all medical documentation.

Our solution is based on tried-and-tested and highly reliable components. Much attention is invested in legal compliance, security and availability. This solution provides a transition to the fully paperless operation of a healthcare facility; all patient medical documentation is short- and long-term archived in fully electronic form while complying with all legal requirements.

The patient-oriented solution includes encryption, electronic signing with time stamps and additional verification of medical documentation trustworthiness. The transition to paperless operation does not compromise information availability or archiving reliability. On the contrary, the time needed for information searches and processing is dramatically reduced while the security and economy of medical documentation archiving are dramatically improved.

The solution includes all technology components and consultancy services. The healthcare facility can be sure that we will fully implement a painless transition to paperless operation compliant with current legislation and EU directives, and which complies with the strict criteria for electronic healthcare interoperability and data storage security.

A secure and trustworthy archive

The secure electronic archive is a unique solution on the Czech market - its components are certified as medical devices.

This solution, which is fully needs-oriented on patients and the specifics of healthcare facilities, is built on state-of-the-art technologies and provides for long-term, backed-up and secure storage of all types of medical documentation.

The solution is independent from implemented information systems.

FEATURES AND BENEFITS

- ▶ A solution needs-oriented on patients and the specifics of healthcare facilities
- ▶ Independent from implemented information systems
- ▶ Immediate availability of all medical documentation
- ▶ A long-term trustworthy archive of all medical documentation (both text- and multimedia-based)
- ▶ Complies with legal requirements, including archiving and shredding legislation
- ▶ A solution based on recognized international standards
- ▶ Full-fledged support for integration with the current CIS
- ▶ Electronic signing with time stamps, trustworthiness verification and encryption

A fully electronic, secure archive of medical documentation

is a key component of a solution that provides long-term and trustworthy storage of all medical documentation within a facility

It is necessary to ensure the long-term archiving of medical documentation due to legal requirements. However, the archiving period is always longer than the lifetime of the production (e.g. hospital) information systems. This is why keeping documentation in information systems is impractical and costly.

Risky and costly data transfers have to be performed during IT system replacements. Archiving large volumes of data in production systems moreover hinders their performance and increases maintenance requirements. Data storage in information systems is suitable only for real-time work, not for long-term purposes. One solution to this problem is the implementation of a fully independent and secure electronic archive.

An archive guarantees:

- ▶ Long-term technological and legislative compliance
- ▶ Conversion into specific formats (PDF/A)
- ▶ An archive does not replace a CIS (HIS) but is an appropriate complement to it
- ▶ An appropriately designed archive does not require any modifications in the production IS
- ▶ Full compatibility with the most widely-used standards (e.g. HL7, DASTA, IHE recommendations...)

Our solution implements many modern security features providing maximum trustworthiness and security of the archived documentation.

These include trustworthy signing with time stamps and additional verification of the documentation trustworthiness.

[KEY FEATURES OF SECURE ELECTRONIC ARCHIVE]

Long-term

- ▶ An archive is built on production system migrations and allows for them
- ▶ Supports shredding functions

Secure

- ▶ Provides redundant and backed-up storage
- ▶ Includes encryption and logging mechanisms

Trustworthy

- ▶ Contains mechanisms for digital signing, time stamps and verification
- ▶ Solution components certified as medical devices
- ▶ Based on tried-and-tested and up-to-date technologies

Healthcare oriented

- ▶ The solution is designed for specific storage of purely medical documentation, including all the legal aspects



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