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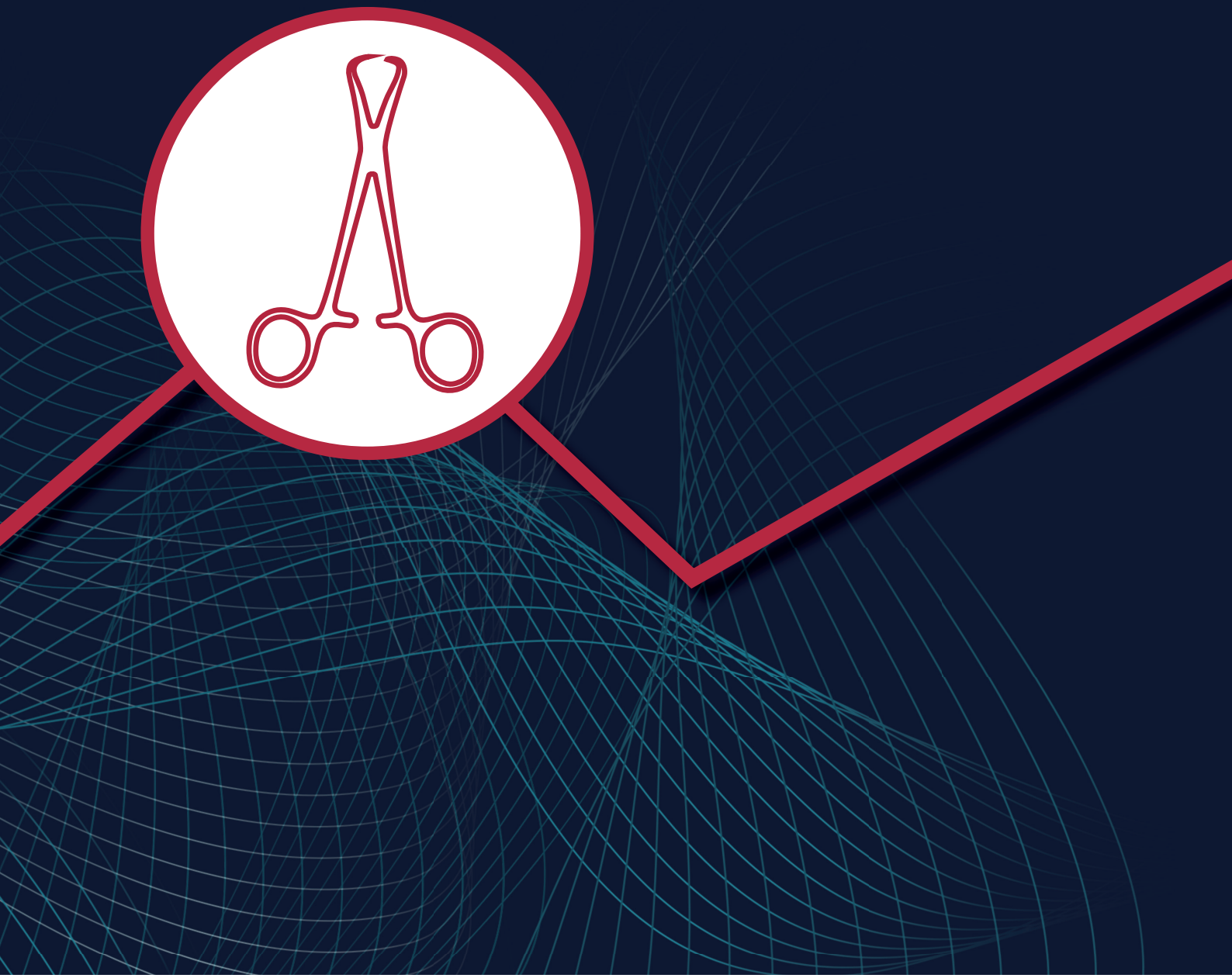


MEDICAL DEVICE REPROCESSING

in focus

We understand hospital

We are the leading manufacturer-independent provider of documentation for medical device reprocessing and instrument management systems in Germany. Since 1989, we have been offering software solutions for simple and transparent documentation of all process steps in the medical device workflow.

Our focus is on optimally connecting the OR and RUMED. Seamless OR integration gives you a constant overview of all instruments in the medical device cycle. As integration specialists, we enable open-interface connection of all common hardware components for comprehensive integration into your individual system landscape.

The modular structure of our software guarantees flexible adaptation to individual requirements, right through to a complete solution. Customers worldwide appreciate the easy-to-use interface, compliance with common IT standards and various evaluation options. Unique failover concepts and a validated solution in your facility that meets all legal requirements ensure the necessary security.

We are your one-stop shop for all the software and hardware you need. In addition to 24-hour support 365 days a year, we offer a modular, target group-oriented training programme before and after installation. You benefit from our in-depth expertise gained from 30 years of experience in the medical sector.

Customer references (excerpt)

Asklepios Clinic Barmbek Hamburg

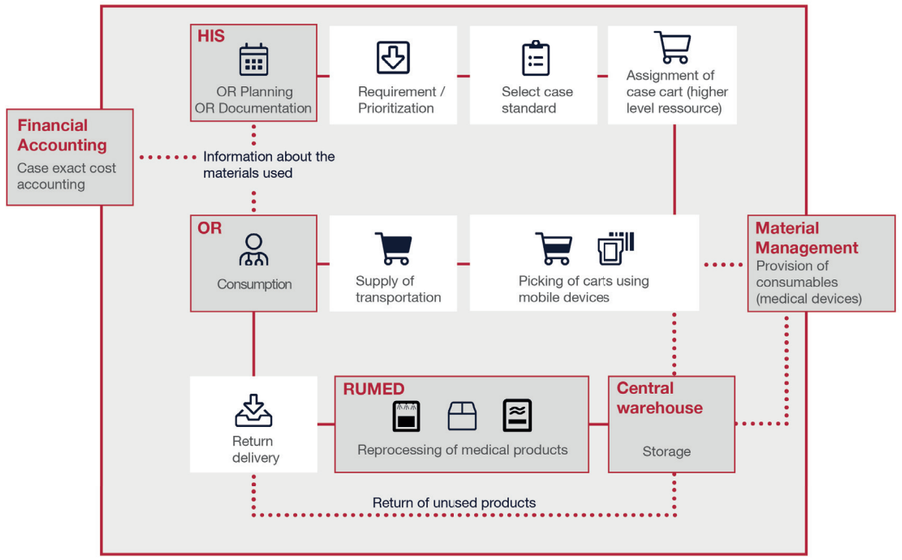
GESPAG hospitals Upper Austria

University Hospital Ulm

Your Benefits

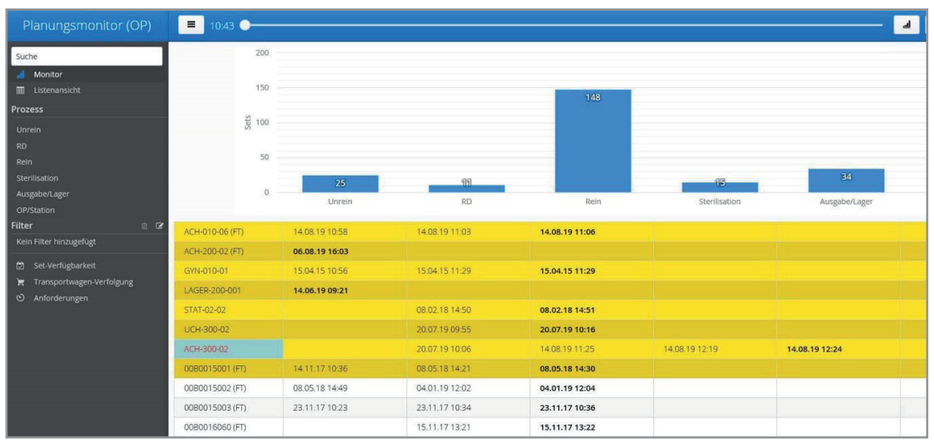
- Tailor-made complete solutions in healthcare
- 30 years of expertise in the medical sector
- Independent provider for instrument management
- Market leader in Europe with more than 1,000 installations worldwide
- Integration specialist for all common devices and software in hospitals
- Clear user interface also for touch screen technology
- Validated quality management system at the RUMED
- Compliance with legal requirements
- Competent 24/7 customer support
- Target group-oriented, modular training concept

This is what a provision process using case carts could look like:



Transparent and secure process documentation

The sterile goods logistics and management system is an important component of quality assurance, documentation and archiving of all process steps involved in the reprocessing and tracking of medical devices for hospitals and healthcare service providers. Linking medical devices as a resource to the workflow of OR planning is crucial for planning reliability. You have an overview of all the medical devices required in the cycle at all times. The bidirectional data exchange between the OR and the RUMED provides you with real-time information overviews, enabling you to react promptly and thus contributing significantly to patient safety.



Planning monitor

Acceptance

Medical device returns are recorded at the set and instrument level in the RUMED reception area. This can be done manually, using a barcode or RFID scanner. Returns are checked for completeness and, optionally, confirmed individually for each item. Unused instruments, return instructions and priorities are also recorded, and return logs are created if necessary.

Cleaning

Barcodes or RFID are used to link the loading of the cleaning and disinfection devices at the basket, tray or instrument level with the process parameters of the RDGs. By storing and archiving the batch information and respective process data, it is possible to verify at any time whether the required parameters have been achieved. Monitoring and release are carried out using the web-based batch viewer, which is optimised for touchscreen displays.

Packing

After cleaning and disinfection, the instruments are packaged for sterilisation. This process is supported by the display of set overviews with filter options and detailed graphical packing lists with a practical search function. In addition, batch or tray identification labels can be produced.

Sterilisation

Instruments and sets are scanned again at the steriliser using a barcode or RFID scanner. Based on the master data, the steriliser can automatically call up a suggested programme – providing additional protection against reprocessing errors. The process parameters are logged and stored under a unique sequential batch number. Medical devices can only be released by qualified users and can be traced at any time.

Issue

When issued, medical devices are recorded with the case or OR number in the assigned warehouses and cost centres. Targeted picking and tracking of all sets and medical devices is supported after internal RUMED approval. A control function prevents issuance without prior approval. Delivery note printing and the creation of issuance and transport logs are mandatory.

OR-Planning

Real-time product information is crucial for scheduling and logistics management in the reprocessing process. Trays can be assigned to specific surgery dates and automatically checked for availability. The availability traffic light shows this at a glance. You will automatically receive a message in the event of bottlenecks. Manual requests and the prioritization of medical devices are also possible

Consumption

The acceptance and consumption of all sets and medical devices are recorded in the OR on the corresponding cost center. In addition, it is possible to document various additional information such as patient, case, cart number, error classification, or priority.

Traceability

To ensure the traceability of all medical devices used on patients, the label number, which represents a unique transaction number, must simply be entered into the surgical documentation. This can be done, for example, using a standard (barcode) scanner.

Transport

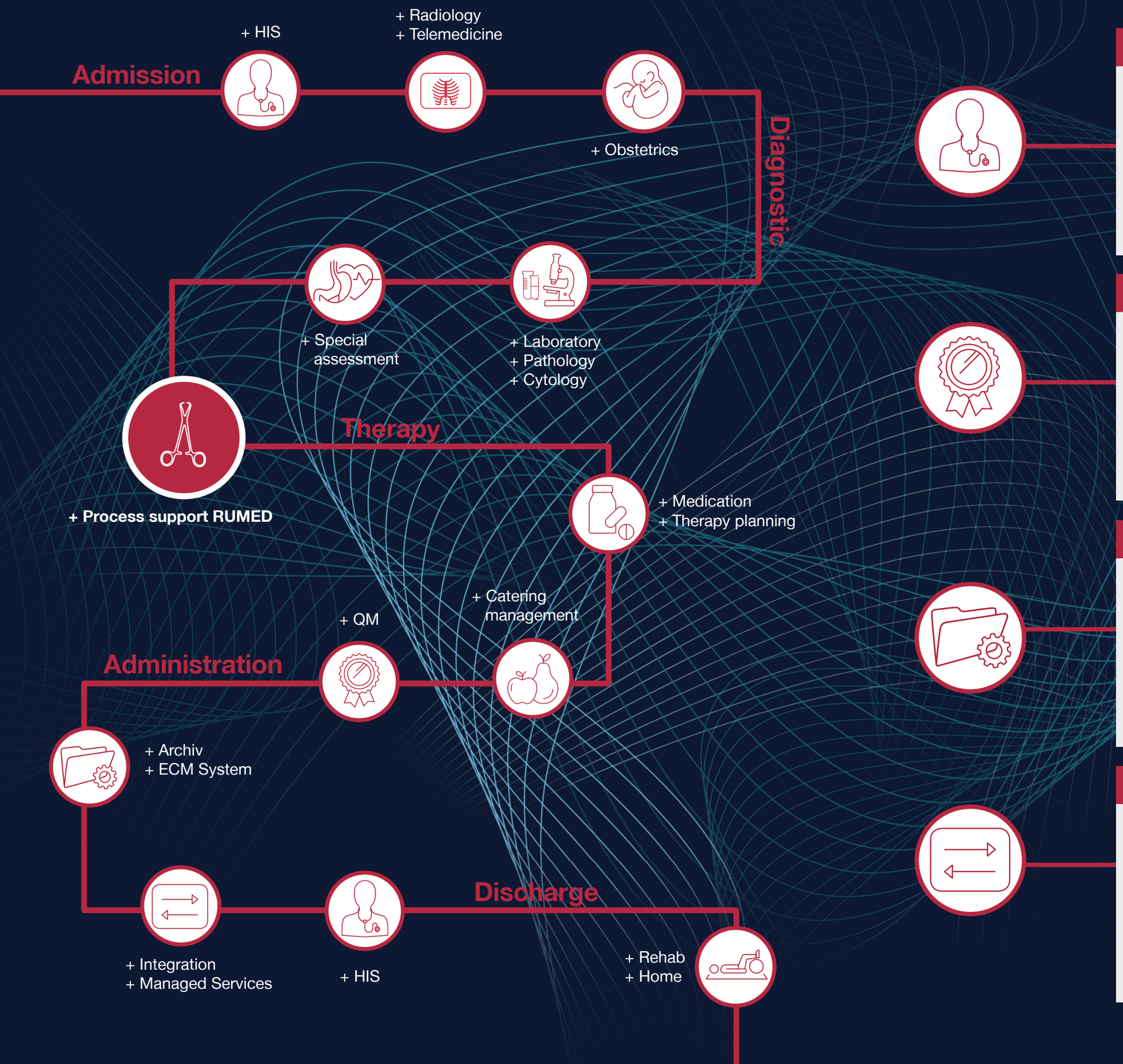
The return transport of used sets from the consumption cost center to the RUMED is also documented. For unused sets, the status is set to “used.” Transport carts and consumption can also be recorded across cost centers.

Master data and evaluations

The administration area provides access to all master data, function modules and evaluations. The master data area can be used to manage set and packing lists, cost centres, storage locations, devices, manufacturers and suppliers. In addition, access authorisations can be controlled and assigned to clients.

Evaluations are available for various areas: for example, statistics on machine utilisation, cost statistics or throughput times. Overviews of repairs, inventory by storage location, duration and owner, or the display of the hygiene pass for each set are also possible.

OPTIMAL INTEGRATION INTO YOUR HOSPITAL PROCESSES



HIS / OR-Planning

For optimal OR planning, the RUMED solution is deeply integrated into NEXUS / HIS^{NG}. With the help of the highest interface standard, the processes in the RUMED and in the OR can be linked with each other throughout. NEXUS / RUMED delivers all necessary information to the OR in real time, enabling effective scheduling with the availability traffic light system. The required medical devices can be conveniently ordered and prioritised from the OR. Consumption is recorded in the OR documentation and the medical device is assigned to the patient using a unique transaction number.

Quality management

We already support you with software for managing QM documents relevant to reprocessing in RUMED. This fully complies with the requirements of EN ISO 13485 and 9001 standards. For hospital-wide access, integration into a comprehensive QM solution is available as an option. NEXUS / CURATOR is a web-based knowledge database that is accessible to all employees. The system has a modular structure and can be expanded to meet the needs of your organisation, starting with pure document management geared towards quality management requirements and the basis for the intranet.

Archiving

By default, all processing and device data is automatically saved after the processing process has been approved and digitally signed with a checksum. This allows manipulation to be detected. All archived files can also be transferred to a cross-departmental document management system in a specific structure. NEXUS / PEGASOS archives data from a wide variety of departments in an audit-proof manner and makes it available system-wide at any time. The solution can be used as a specialist solution for individual company divisions or as a company-wide enterprise content management system.

Integration and Services

The NEXUS communication/interface and integration server connects different applications that process the generated data among themselves and with each other, as well as the RUMED with leading applications such as HIS, financial accounting or materials management, and with remote communication partners. The relevant information is quickly available for effective control of medical device reprocessing. Necessary procurements can also be easily transferred to materials management. The NEXUS / INTEGRATION SERVER can handle coordination within a hospital, but also between different departments.

NEXUS AG

NEXUS AG is a software company specialising in e-health solutions. NEXUS solutions help hospitals, psychiatric clinics and rehabilitation facilities treat their patients more efficiently and safely. With over 1,500 employees, NEXUS develops solutions for more than 240,000 users worldwide.

Your advantages at a glance

+ More than 30 years of experience in the medical sector
+ More than 1,000 installations worldwide
+ Procurement and installation of software and hardware from a single source
+ Simple, secure and efficient documentation of all steps in the reprocessing cycle
+ Modular software for individual customisation
+ Interfaces to all major device manufacturers and software solutions in hospitals
+ Training and support for users before and after installation
+ 24-hour support, 365 days a year

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