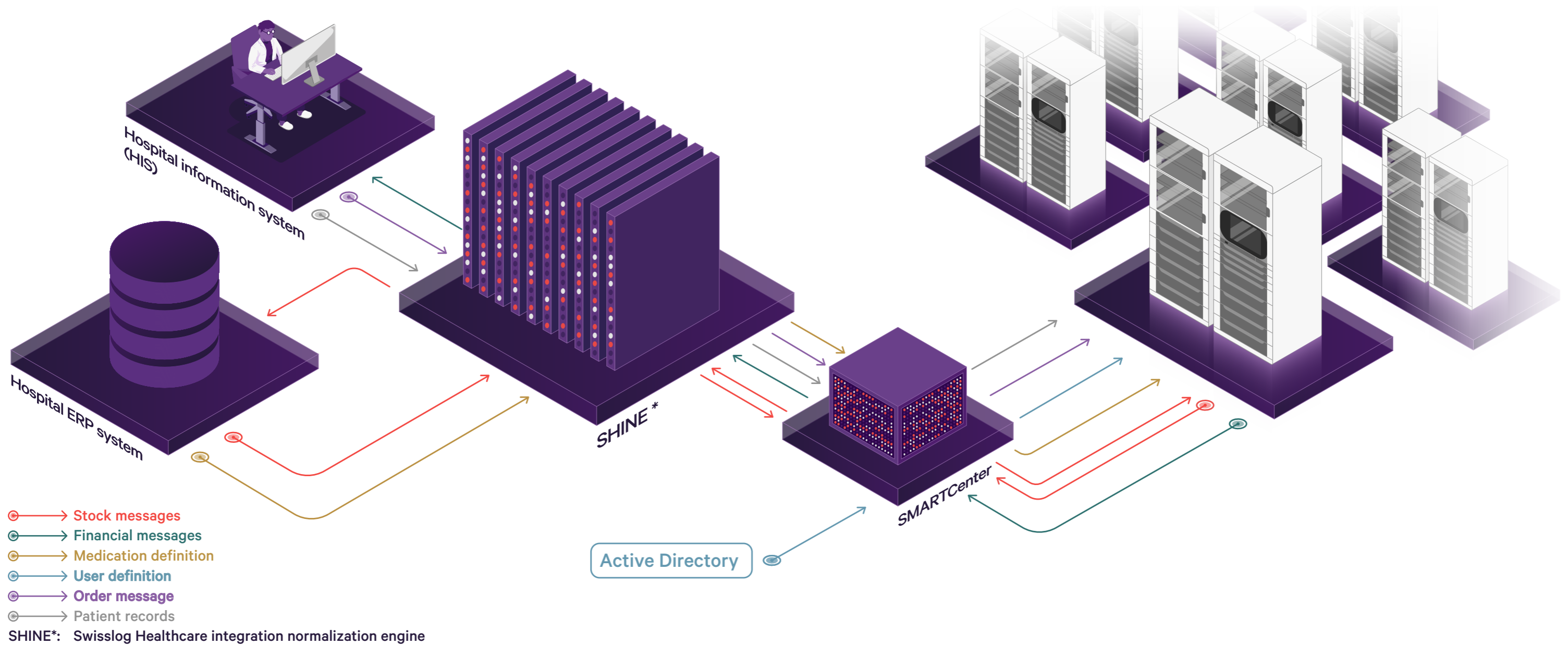


Seamless integration of automated dispensing cabinets.



Communication server SHINE (Mirth Connect): The cross-platform open-source communication server is the interface for data exchange. Swisslog Healthcare has a rich base template library for different kinds of data sources and data types that minimizes integration effort.

Order messages: All of the information in a medical prescription that is saved in the HIS is sent to the system via SHINE. This includes the prescription identification number, the name of the doctor and medication, the quantity to be administered, the start and end dates of the treatment, and the time of administration, for example.

Patient records: Via SHINE, the HIS conveys all patient-related data, such as name, date of birth, gender or hospitalization status (inpatient, transferred, discharged) in encrypted form to the SMARTCenter.

Financial messages: MedSMART makes billing as smooth as possible by sending all financial data like the transaction ID, medication ID, user ID, quantity, etc. to the HIS via SHINE.

User definitions: To ensure secure access to MedSMART, the system uses the user data in the active directory. This includes the user's name and identification number, as well as their role at the hospital.

Medication definitions: The ERP system sends all medication data to the SMARTCenter via SHINE, so that the right medication can be dispensed from a MedSMART as required. This data includes the name and form of the medication, as well as the identification number and generic drug designations.

Stock messages: To maintain a constant overview of the current medication inventory, all stock changes like withdrawals or returns are reported back to the ERP system. This optimizes medication stocks and reduces waste.

How does the data transfer work?

SMARTCenter is a web application that acts as a central hub. It uses the SHINE communication server to control all the information between the hospital systems and the MedSMARTs, therefore automating the dispensing of medication at the point of care.

All kinds of information from the various hospital departments flow into the SMARTCenter. This information is bundled and undergoes encryption via SHINE before being forwarded to one or more automated dispensing cabinets. The server also sends stock information from MedSMART to the corresponding hospital systems.

The systems communicate via standard data formats such as **HL7, XML** or **JSON**. These determine how the information is structured and organized.

Protocols like **TCP, HTTP** or **SOAP** ensure smooth data transfer. This makes sure that information is sent to the corresponding systems in the right order and format, and without any losses, so it can be used for special tasks.

Did you know: We use SHINE for all our pharmacy automation solutions. This enables us to achieve a fast and smooth integration.

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