Blood Typing Manager

All your results, secured at your fingertips. Easy. Efficient. Secure.

An innovative compliant data management tool to centralize multi-instrument and multi-site data handling securely from a single interface, facilitating implementation, thus reducing IT efforts and budget.

Easy implementation

- Benefit from the **flexible and very easy installation**, which can be performed in a physical server or virtual environment
- Optimize application set-up for one or multiple laboratories from a **single interface**, reducing resources needed to manage and maintain the system
- Achieve multi-site and multi-instrument connectivity with this **web-based software** compatible with Windows 10 and requiring no special client workstations

Smooth connectivity

- Efficiently connect your IH instruments to LIS with the assistance of **Grifols subject matter experts**
- Achieve a **smooth and unique** bidirectional connection to LIS
- Improve work efficiency of your lab or network with the ability to interface to **multiple LIS**
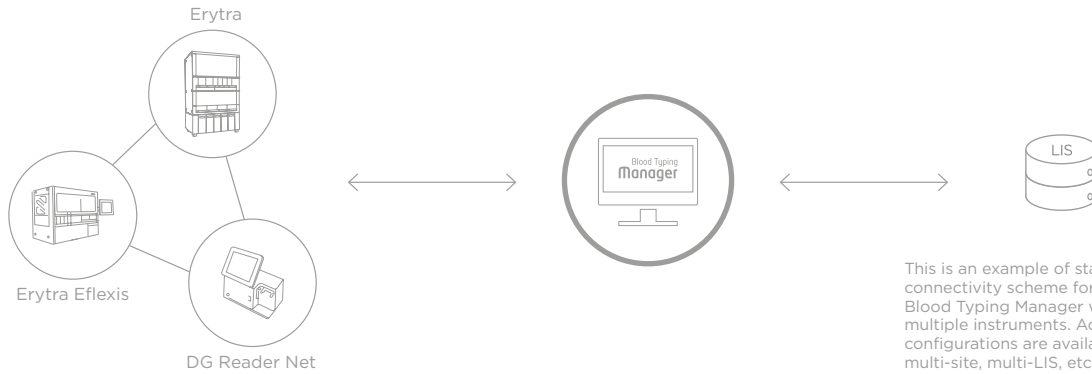
Secured data

- Have confidence knowing that the confidentiality, integrity, and availability of your data are in good hands. Grifols designs products with **cybersecurity** in mind
- Patient data is securely managed in Blood Typing Manager, complying with **data protection** and **cybersecurity standards**
- Keep your lab running smoothly with Secure Remote Connectivity, a tool for the technical support team to **remotely access** the middleware to reduce incident handling time while optimizing system uptime

TYPING

GRIFOLS

Blood Typing Manager

Erytra

Erytra Eflexis

DG Reader Net

LIS

This is an example of standard connectivity scheme for Blood Typing Manager with multiple instruments. Additional configurations are available: multi-site, multi-LIS, etc.

Technical specifications

INSTALLATION

Component	Server Computer Specification	Client Computer Specification
CPU	Intel 4 cores 3GHz or faster	Intel Celeron or faster
Memory	8 GB or more	4 GB or more
Hard drive	250 GB or more, 7200 rpm or faster	250 GB or more
Operating system	Windows 10 v1607 (or higher), or Windows Server 2016 (or higher)*	Not applicable
Web browser	Not applicable	Google Chrome and Microsoft Edge

ORDERING INFORMATION

Code	Description
21040401	Blood Typing Manager Core Module
21040402	Blood Typing Manager Multi-site Plus (> 5 sites)
21040403	Blood Typing Manager Antibody Identification Module

*Windows 10 is recommended for environments of up to 4 concurrent users and 5 connected instruments. In other environments, Windows Server 2016 or above is recommended.

SOFTWARE CONNECTIVITY

LIS connectivity	Bidirectional connectivity to one or more LIS
LIS protocol	Serial port: HL7, File sharing: HL7, TCP/IP: HL7
Instrument connectivity	File sharing or TCP/IP connectivity to unlimited number of IH Grifols instruments
IH Grifols instruments compatibility	Erytra, Erytra Eflexis, DG Reader Net
Sites connectivity	Multiple laboratory connectivity sharing a unique database
Client PC connectivity	Web access (HTTPS)
Technical support and remote connectivity	Compatible with Grifols Secure Remote Support tool that provides remote desktop and file transfer capabilities for troubleshooting for technical support

STANDARDS

Regulatory standards	CE Mark, FDA 510k; ISO 13485 & ISO 14971; IEC 62304 & IEC 62366-1, UKCA mark according to UK Medical Devices Regulation 2002
Cybersecurity standards	AAMI TIR57: Principles for medical device security
Data protection standards	HIPAA (Health Insurance Portability and Accountability Act). 45 CFR Parts 160, 164 Regulation (EU) 2016/679 (General Data Protection Regulation)

DIAGNOSTIC
Support & Services

With you every step of the way
We deliver solutions to facilitate high-quality patient care with a dedicated and responsive team of professionals.