

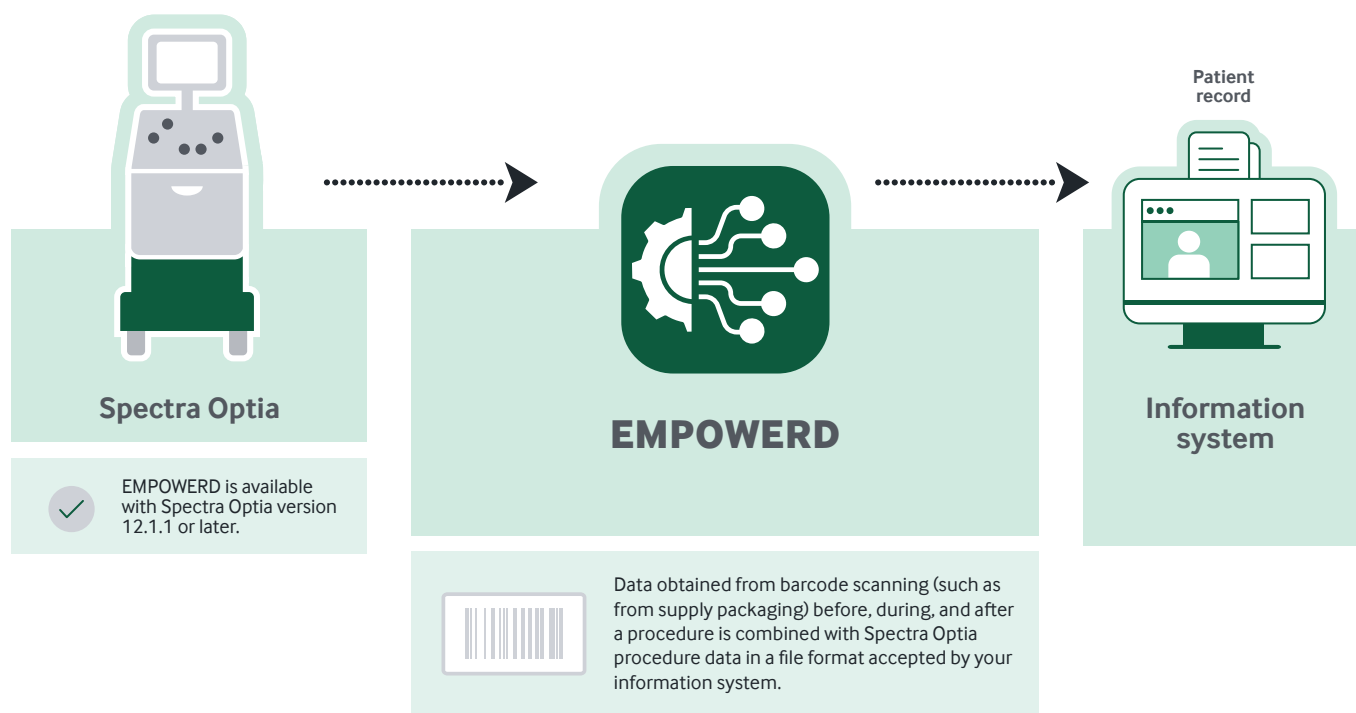
Empower Your Team With Automated Data Connectivity

Capture and transfer accurate procedural data to help enhance operational efficiency and enable compliance using EMPOWERD™ Data Management Software for the Spectra Optia™ Apheresis System.

EMPOWERD software addresses data-related challenges your healthcare teams face, from time-consuming, error-prone manual entry to complex electronic medical record (EMR) system integrations to ever-evolving compliance demands.

How it works

Integrated connectivity with EMPOWERD Data Management Software



EMPOWERD was designed in partnership with customers and their IT teams. It is available to automatically and securely transfer procedural data from Spectra Optia, and additional information from operator barcode scans, to your patient information system.

EMPOWERD benefits

EMPOWERD offers straightforward integration with your existing information systems, supporting industry-standard protocols. Plus, your clinical, IT, and quality teams can enjoy enhancements in time management, data integrity, compliance, and security.

- **Save time** by reducing documentation and data collection time
- **Improve data quality and data integrity, and enhance patient safety** by replacing manual entry¹
- **Enhance operational efficiency and enable procedure data management**
- **Give staff more time** for direct patient care¹
- **Improve communication and collaboration** — easily find procedure information in the patient record²

System requirements

Designed in partnership with customers and their IT teams, EMPOWERD is available on Spectra Optia version 12.1.1 or later and works with TOMEs™ (Terumo Operational Medical Equipment Software). The tables below list additional software and hardware requirements.

Software requirements

The configuration for EMPOWERD must meet the following minimum software requirements.

Item	Requirements and Supported Versions
Microsoft Windows operating system	Microsoft Windows 2022, 2025
Database server	Microsoft SQL Server 2019, 2022 with SQL Server and Windows authentication mode; Collation Latin1_General_CI_AS
Microsoft .NET Framework (for TOMEs and EMPOWERD application servers)	TOMEs + EMPOWERD application server: <ul style="list-style-type: none">■ Microsoft .NET Version 4.8■ .NET 8.0* (ASP.NET Core Hosting Bundle)
Microsoft Windows Server IIS (for TOMEs server)	Version 10.0
OpenSSH (for SFTP server)	Version 8.1 (or later)
TOMEs software	Version 8.2.1 (or later)
Microsoft PowerShell	Version 7.4 (or later) x64
AdoptOpenJDK* (for Mirth Connect)	Version 21

*User can select any Java development kit (JDK) supported by Mirth Connect.

Hardware requirements

The configuration for the EMPOWERD application must meet the following minimum hardware requirements for the servers that host TOMEs, the EMPOWERD application, SFTP, and the database.

Component	Minimum Requirements
Uninterruptible power supply (UPS)	Any UPS that is appropriate for the purchased hardware
Processor	4 CPUs: 4 cores or vCPUs in a virtual environment
RAM	32 GB
C partition	250 GB
D partition	250 GB
Disks	Recommended: RAID 1 on 2 SAS SSD disks
Network interfaces	1 minimum

Empower your data management

Unlock operational efficiency, automated data capture, and more seamless integration with your patient information systems.

¹Bauer JC, John E, Wood CL, Plass D, Richardson D. Data entry automation improves cost, quality, performance, and job satisfaction in a hospital nursing unit. *J Nurs Adm.* 2020 Jan;50(1):34-39. doi: 10.1097/NNA.0000000000000836

²Chen P, Lai D, Xu X, Long M, Kang N. How to improve blood transfusion safety through information technology and practices. *Comput Biol Med.* 2025 May;190:110120. doi: 10.1016/j.combiomed.2025.110120.

Not all products and solutions are available in all areas. Availability depends on regulatory approval in each country. EMPOWERD™, Spectra Optia™, and TOMEs™ are either registered trademarks or trademarks of Terumo BCT, Inc. in the United States and/or other countries. See [TerumoBCT.com/Trademarks](https://www.terumobct.com/Trademarks) for details. The referenced products may be covered by one or more patents or pending patent applications. See [TerumoBCT.com/Patents](https://www.terumobct.com/Patents) for details. Microsoft, Windows, Windows Server, PowerShell, and SQL Server are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. Java is either a registered trademark or a trademark of Oracle America, Inc. in the United States and/or other countries. Mirth is either a registered trademark or a trademark of NXGN Management, LLC in the United States and/or other countries.



Terumo Blood and Cell Technologies is a medical technology company. Our products, software, and services enable customers to collect and prepare blood and cells to help treat challenging diseases and conditions. Our employees around the world believe in the potential of blood and cells to do even more for patients than they do today. [TerumoBCT.com](https://www.terumobct.com)