

## Empower 3: Advantages of a Networked Chromatography Data System

Waters® Empower® 3 Chromatography Data System (CDS) provides analysts with advanced data analysis and reporting capabilities. When deployed as a workgroup or enterprise network, Empower extends beyond the workstation, delivering significant value in the laboratory or throughout the organization.

### WORKGROUP OR ENTERPRISE NETWORKS

Empower network solutions are available in both workgroup and enterprise configurations. The Empower workgroup network is an entry level solution for a small laboratory or company with less than 10 software users. The Empower enterprise network is for large laboratories, multi-site or global deployments with greater than 10 software users. Since workgroup and enterprise configurations use identical software, organizations can expand their Empower network from a workgroup to an enterprise deployment as their needs change.

### MORE EFFICIENT DATA MANAGEMENT WORKFLOW

- The Empower network allows analysts to review, process, and print their chromatographic data from any client computer on the network.
- Eliminate bottlenecks when operated in a personal workstation configuration, where two or more people need access to the same computer at the same time.
- Create sample sets at any workstation, even while the target instrument is in use.
- Initiate data acquisition, review real-time data acquisition, as well as review, process, and print results from any Empower client workstation.



### BENEFITS OF AN EMPOWER 3 NETWORK

- Improve laboratory productivity with enhanced communication and system availability.
- Secure chromatographic data with automated disaster recovery backup and centralized data archive.
- Minimize exposure during regulatory audits by facilitating GLP/GMP and 21 CFR Part 11 compliance.
- Minimize IT support requirements by streamlining software maintenance.
- Reduce the cost of future chromatographic system purchases and annual software support plans.

### SEAMLESS DATA AND METHOD SHARING

With the Empower network, individual analysts can benefit from the combined effort of the entire laboratory.

- Create and administer methods to automate repetitive tasks, which can be utilized by everyone in the lab.
- Use project folders to enhance project management effectiveness in a network environment.
- Share projects with multiple users.
- Seamlessly transfer methods from project to project.
- Projects shared department-wide reduce the number of projects to manage.
- Multiple chromatographic assays can be combined into one project to produce summary reports.

### CONTROL OF LOCAL AND NETWORKED CHROMATOGRAPHS

The Empower network provides the ability to setup, initiate, and review sample run sequences from any Empower client workstation, regardless of where the chromatographic hardware is attached.

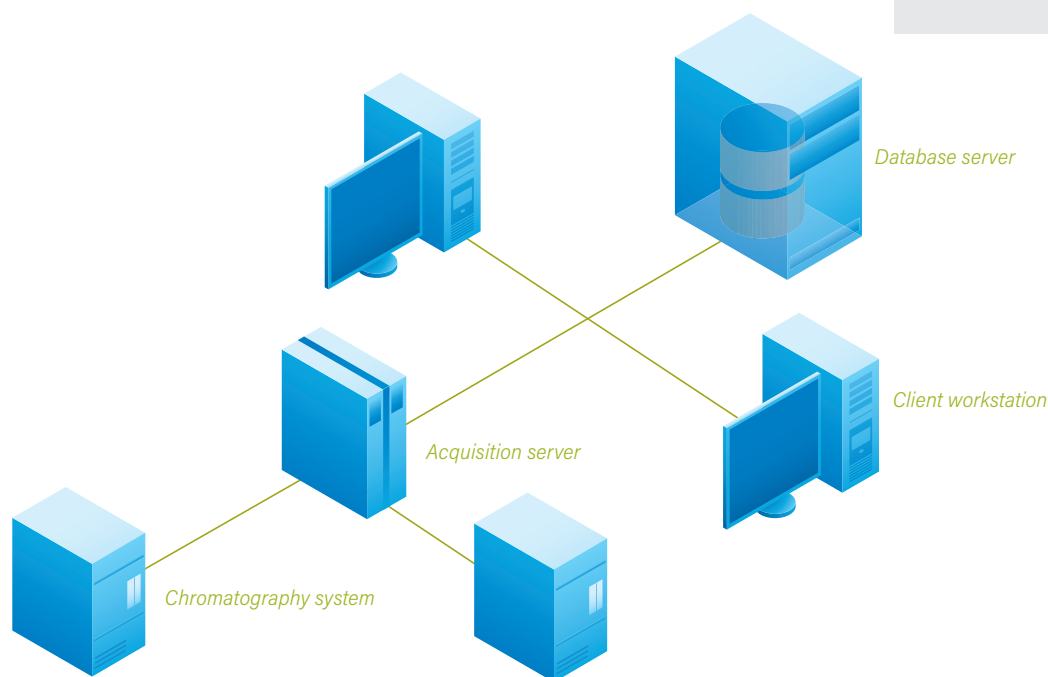
In addition to supporting client workstations for chromatographic data acquisition and instrument control, the Empower network configurations support the Waters LAC/E<sup>32</sup> Acquisition Server. The LAC/E<sup>32</sup> is a laboratory network appliance that provides enhanced raw data security, remote access to instruments, data buffering, and enhanced performance for your chromatographic systems.

### GLP/GMP AND 21 CFR PART 11 COMPLIANCE

- To reduce the risk of exposure in a regulatory audit, the Empower network makes it easier for organizations to meet compliance requirements.
- To comply with 21 CFR Part 11, the embedded Empower database offers an additional form of security. It prevents access to the data files and the database on the server, except through the Empower Software.
- Customize privileges and restrictions to functions within Empower on a user-by-user basis.
- PC client workstations install Empower by downloading it from the server during setup, which insures all software files are the same on all of the PC client workstations – Empower also verifies that the files were installed correctly.
- Installation Qualification (IQ) and Operational Qualification (OQ) can be executed remotely from any Empower client workstation with the Empower SystemsQT for Software Tool.

**Empower 3 workgroup network**

*An entry-level network with less than 10 users, which is ideal for a small laboratory or company.*



## ARCHIVE AND BACKUPS

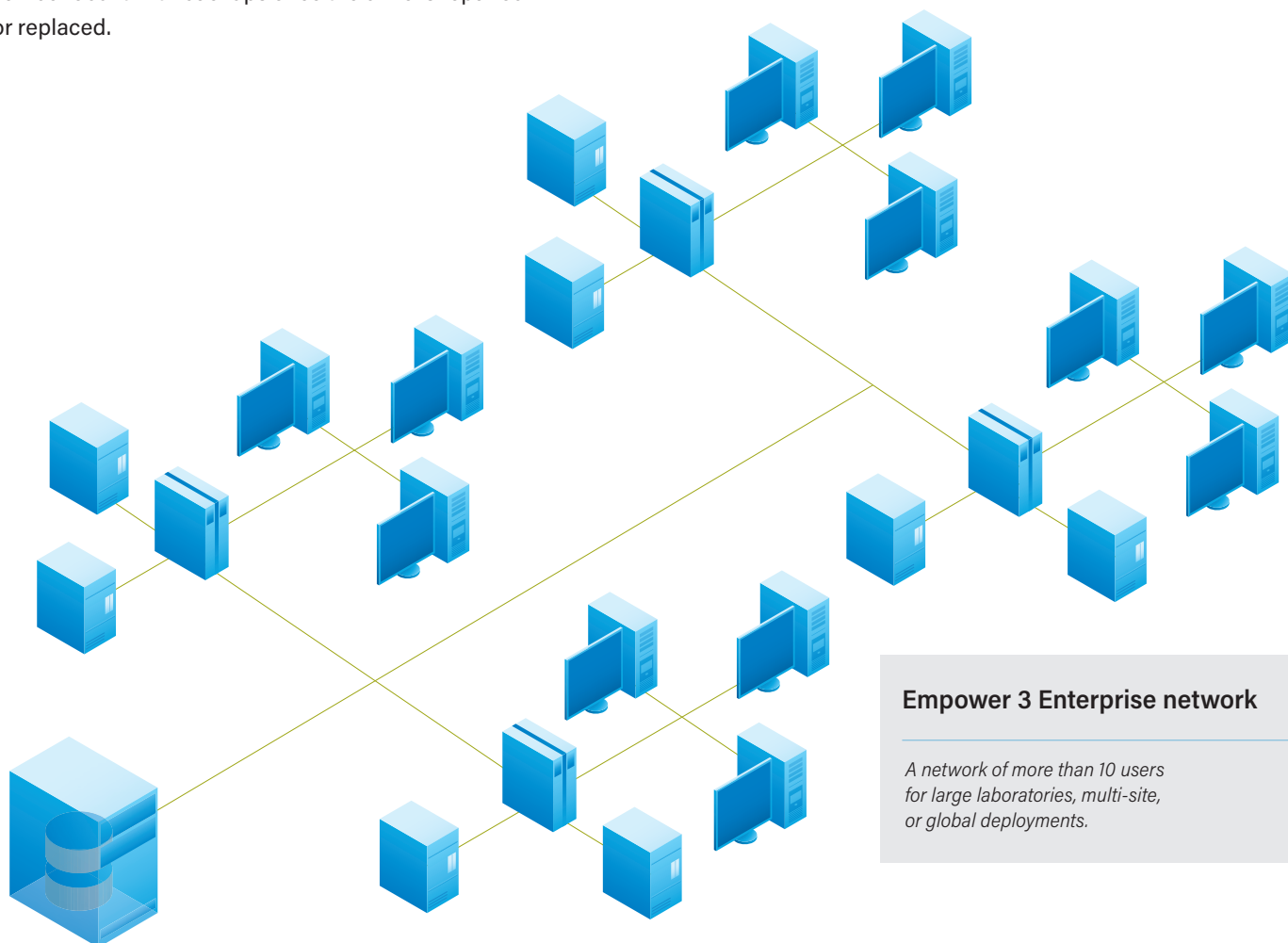
- You invest significant time, effort, and budget to acquire chromatography data that is critical for product development, compliance, and intellectual property. The Empower network helps ensure that this information is secure.
- Project Archive can be initiated from any Empower client workstation – an analyst collecting data at a specific client workstation can move to an open client workstation to initiate the project archive procedure.
- In the Empower network environment, the Empower database server automatically initiates a backup each night. In the event of a server disk drive failure, the drive can be rebuilt with backups once the drive is repaired or replaced.

## VERSION CONTROL AND SOFTWARE MAINTENANCE

With the Empower network, software is installed on the server and distributed to each client through the network. The update and upgrade process becomes more streamlined with minimal downtime, consistent software versions throughout the network, and a reduction on the demand for IT resources.

## INCREASED PERFORMANCE

The Empower network is based on 'true client/server architecture' – tasks such as data processing, printing, and database storage and retrieval are divided and distributed to the computer that is best optimized to perform them. Since a single computer is no longer executing all of the tasks, this 'distribution of power' increases overall performance.



### Empower 3 Enterprise network

*A network of more than 10 users for large laboratories, multi-site, or global deployments.*

# Waters

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