



OpenLAB Data Store For MS

Standard System Configurations and
Recommended Hardware and Software

Data Sheet

Benefits

- Provides audit and security features necessary for a compliant system
- Automated secure central storage of data, methods and reports
- Easy search and retrieval
- Affordable, with simplified deployment and administration
- Networked solution boosts productivity
- Industry-standard technology
- Available in English, Chinese, and Japanese

OpenLAB Data Store for MS

The Agilent OpenLAB Data Store for MS is a networked solution for the compliant storage of data acquired with Agilent ICP-MS MassHunter systems. An ICP-MS MassHunter system includes an Agilent 7700 Series ICP-MS or 8800 Triple Quadrupole ICP-MS instruments, and Agilent ICP-MS MassHunter Software with User Access Control (UAC).

As a networked solution, the OpenLAB Data Store for MS software is scalable to support up to 15 ICP-MS MassHunter systems. In combination with an overall compliance plan, an ICP-MS MassHunter system with OpenLAB Data Store for MS provides the controls needed to meet USP <232>/<233>, US FDA 21 CFR Part 11, and EU Annex 11 requirements.



Agilent Technologies

Standard Configurations Provide Simplified Deployment and Proven Performance

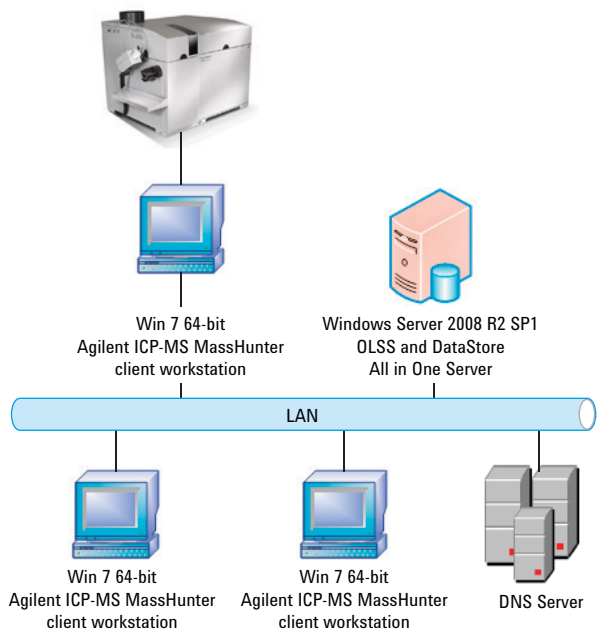
To assist your laboratory in implementing an OpenLAB Data Store for MS solution, this guide describes the standard system configuration, and its associated hardware and software component specifications. This configuration has undergone extensive factory-based benchmarking to ensure proven and reliable system performance. In addition, the standard configuration generally offers the most simple and cost-effective deployment with fixed-price Agilent Professional Services. Other system configurations are supported by Agilent, but have not undergone the same level of benchmarking, and may require additional services to ensure a successful deployment.

A Networked Solution

OpenLAB Data Store for MS is a server-based system. As shown in Figure 1, each Agilent ICP-MS instrument configured on the system is controlled by its own unique ICP-MS MassHunter client workstation. Up to 15 concurrent ICP-MS systems may be configured. If desired, additional ICP-MS MassHunter workstations can be added for offline data processing.

Network proximity between system components can have a direct and significant impact on performance. The best performance is achieved when the components are configured in close proximity on the same subnet.

While OpenLAB Data Store for MS is focused on the laboratory workgroup, it can be connected to a corporate network if your organization requires use of corporate-level user accounts and groups. If your organization manages machine names using a DNS server, the system can also connect to a DNS server as shown in Figure 1.



Notes:

- Configurations without a DNS server are supported.
- Up to 15 Agilent ICP-MS MassHunter instrument-client workstations may be configured on the system.
- OpenLAB Data Store for MS does not support storage of Agilent OpenLAB Chromatography Data System (CDS) data in this release.

Figure 1. Standard OpenLAB Data Store for MS system configuration.

Standard OpenLAB Data Store for MS Server Hardware and Software Specifications

The recommended OpenLAB Data Store for MS server specifications will depend on the number of ICP-MS MassHunter systems configured. As shown in Table 1, when more ICP-MS MassHunter systems are configured, a more powerful server and greater data storage capacity are required. The data disk recommendations are based on an average data acquisition rate of 100 MB per day per instrument. This configuration can be modified depending on actual or expected use patterns in your laboratory.

OpenLAB Data Store requires a database backend. While PostgreSQL is the standard choice, or Microsoft SQL Server 2008 R2 is also supported. OpenLAB Data Store for MS is not designed to be run on a virtual machine.

Standard Agilent ICP-MS MassHunter Client Workstation Hardware and Software Requirements

OpenLAB Data Store for MS integrates with ICP-MS MassHunter and UAC software to provide the capabilities labs need to manage and secure their ICP-MS data. The ICP-MS MassHunter client workstation hardware and software requirements are shown in Tables 3 and 4. Each Agilent ICP-MS instrument is controlled by its own ICP-MS MassHunter client workstation.

The ICP-MS MassHunter client workstation is not supported on a virtual machine. OpenLAB CDS software cannot be installed on the ICP-MS MassHunter client workstation.

Table 1. Recommended OpenLAB Data Store for MS server hardware for standard system configurations.

Hardware	Minimum configuration: one Agilent ICP-MS system	Recommended for up to five Agilent ICP-MS systems	Recommended for up to 15 Agilent ICP-MS systems
Processor	1 × (Intel Xeon 2.0 GHz 4 Core)	2 × (Intel Xeon 2.0 GHz 4 Core) or 1 × (Intel Xeon 3.0 GHz 6 Core)	2 × (3.0 GHz Xeon 4 Core)
RAM	12 GB	16 GB	24 GB
Disk (OS and software)	1 × (100 GB 7.2 K rpm SATA)	2 × (150 GB 7.2 K rpm SATA RAID 1)	2 × (250 GB 15 K rpm SATA RAID 1)
Disk (Data)	2 × (100 GB 7.2 K rpm SATA RAID 1)	3 × (150 GB 7.2 K rpm SATA RAID 5)	3 × (500 GB 7.2 K rpm SATA RAID 5)
Removable Media	DVD ROM (12X)	DVD ROM (12X)	DVD ROM (12X)
Network	1 GB	1 GB	1 GB

Table 2. OpenLAB Data Store for MS server software requirements for standard system configurations.

Software	Version
Microsoft Windows Server OS	2008 R2 SP1
.Net Version	3.5 and 4.5
OpenLAB Data Store	A.01.03
OLSS	A.01.06
Database	PostgreSQL 9.0.12 (standard) or SQL 2008R2 SP2 (supported)

Table 3. Minimum Agilent ICP-MS MassHunter client workstation specifications.

Hardware	Minimum configuration
Processor	Intel(R) Xeon(R) E31225 at 3.10 GHz (Quad core)
Ram	4 GB
Disk (OS and software)	1 (250 GB)
Removable media	DVD ROM (12X)
Network	1 GB
Video	1,280 × 1,024 resolution (SXGA) (Tested with 1,680 × 1,050)

Table 4. Agilent ICP-MS MassHunter client workstation software requirements.

Software	Version
Microsoft Windows Client OS	Windows 7 64 bit
.Net Version	3.5 and 4.5
Agilent ICP-MS MassHunter software	B.01.03
Microsoft Excel	2010 or 2013

OpenLAB Software Suite

OpenLAB Data Store for MS is part of an industry-leading suite of software products designed to integrate and manage scientific information throughout its lifecycle, across the laboratory and the enterprise. It complements the Agilent OpenLAB Enterprise Content Manager (ECM) software for the compliant management of multivendor, multi-instrument MS data in larger laboratories

Agilent Professional Services

Professional Services for the OpenLAB suite—Site Preparation, Installation and Familiarization, Training, Migration, Workflow, and General Consulting Services—maximize your return on investment in OpenLAB software throughout the life of your OpenLAB solution from its design and implementation to its ongoing use and evolution.

During system design, Site Preparation Services include evaluation and preparation of the installation site, selection of correctly-sized system components, and working with you to ensure the availability of appropriate utilities, people, and supplies. Agilent consultants work with the laboratory and IT to review the readiness of the network for the OpenLAB solution, and recommend changes to optimize system performance. Our consultants identify any IT hardware savings and suggest how to shift resources to prevent performance bottlenecks.

To learn more about OpenLAB Data Store for MS visit

www.agilent.com/chem/openlabdatastore-ms

To learn more about the OpenLAB Laboratory Software Suite visit

www.agilent.com/chem/openlab

To learn more about Agilent ICP-MS systems visit

www.agilent.com/chem/icpms

To learn more about the Agilent Professional Services Visit

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