

> Increase Productivity and Facilitate Decision Making

SPSS is a suite of products for statistical analysis and data management that enables analysts and researchers to access, prepare, manage, analyze, and report on data in order to solve business and research problems throughout the entire analytical process. SPSS Server features client/server architecture, which is the combination of two powerful products:

- SPSS for Windows®, SPSS Inc.'s flagship software for in-depth data exploration, analytical reporting, and modeling
- SPSS Server, server-based software that delivers enterprise-strength scalability, additional tools, security, and enhanced performance

When you combine the strength of world-class analytical tools and techniques with the flexibility and speed of server functionality, you have a powerful solution for supporting better decision making throughout your enterprise.

Increase productivity

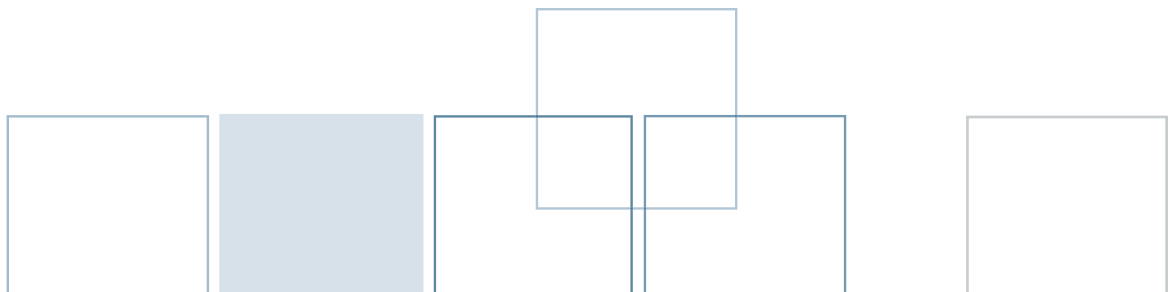
SPSS Server uses server-grade resources to perform data preparation and analysis faster than desktop resources can. It also removes the need to keep a copy of the data on the desktop, freeing local resources and network bandwidth and enabling you to perform additional tasks while using these resources.

Administrative controls in SPSS Server enable you to increase performance for high-priority users and also allocate server resources where they are needed most—rather than on a first-come, first-served basis.

Additional features unique to the server version of SPSS increase the tools available for preparing data and creating reports. These features enable you to:

- Sort and aggregate data inside the database prior to its retrieval for analysis
- Open multiple XML models created by SPSS, Clementine®, or AnswerTree® and score new data
- Achieve high-performance sorting using SyncSort® (must be purchased separately; contact your account representative for more information), which provides dynamic optimization, parallel processing when using multiple processors, and patented performance algorithms
- Process large data preparation or analysis tasks when using the SPSS Batch Facility

SPSS Batch Facility (included with SPSS Server) also enables you to process repeated analytical jobs, especially when server use is low (such as overnight). SPSS Batch Facility runs without requiring an active or connected client machine and can deliver output in text, HTML, and XML formats. It can also save data preparation work to the SPSS (SAV) file format.



Analyze massive data files faster

SPSS provides a scalable client/server version for your enterprise-wide analytical solution. By analyzing data on a server rather than your desktop, you can analyze massive datasets quickly. You can handle large data analysis problems easily because SPSS Server practically eliminates data size limitations. You also receive better performance because less temporary file space is needed when using procedures that change or add more data (such as recoding variables, saving regression residuals, or saving cluster membership).

SQL pushback enables SPSS Server to sort and aggregate data in the database prior to its retrieval. With this, you can take advantage of more scalable data preparation abilities at the DBMS level.

Streamline and speed data access

With SPSS Server, data remain on the server and don't need to be copied to the client machine or converted into an SPSS file. You dramatically reduce data handling processing times with conversion-free, copy-free data access from SQL databases when using the SPSS Data Access Pack (included with SPSS Server). Because data remain on the server, you increase the speed of your analysis and reduce network traffic. And, because you don't have to convert data into SPSS format, you can save even more time.

Make better use of existing hardware

SPSS Server is a flexible product that enables you to create a solution customized to your organization's unique environment. You can run SPSS Server on a wide variety of popular server platforms, which communicate seamlessly with the desktop version of SPSS*, and enable your IT staff to use resources they may already have.

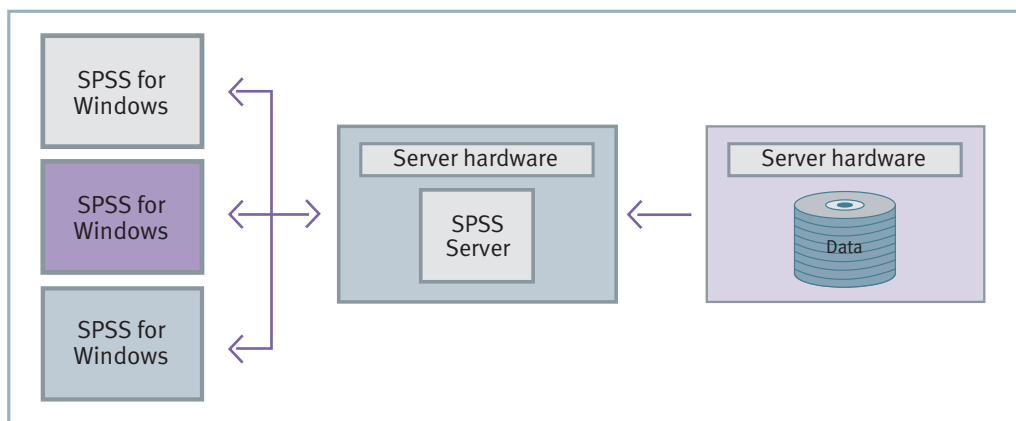
By providing a native 64-bit analytical solution that directly contributes to increased productivity and improved decision making, 64-bit versions of SPSS Server will enable your organization to more easily realize positive ROI from its 64 bit-hardware investment.

Access your data remotely—even from outside a firewall

Do you or others need to access data outside of your company's firewall? SPSS Server uses various port-forwarding schemes so that remote analysts with permissions can securely tunnel through firewalls and access datasets. And because data are processed on the server, remote employees do not have to download entire datasets for processing—an important consideration for users with limited bandwidth. Secure sockets layer (SSL) encryption of the traffic between the SPSS client and SPSS Server is possible and ensures that all communication between the two is unreadable by third parties if intercepted.

* Currently, this is possible only in the Microsoft® Windows® desktop version of SPSS.

■ SPSS Server



SPSS Server enables you to analyze data on your server for better decision making throughout your enterprise. Data can reside on the same machine as SPSS Server or on a remote data server.

Features

Client/server architecture

- Run server-based “back end” processes such as data access, aggregation, transformations, and statistical analysis using SPSS command syntax language
- Reduce network traffic because data reside on the server and are not brought down to users’ machines for analysis
- Reduce the amount of temporary space required for many processes
- Analyze massive datasets faster using server-grade hardware
- Increase the speed of your analyses by letting your server do the heavy computation work, freeing your desktop for other activity
- Work with a separate analytical server framework and receive:
 - Performance improvements, including the increased size of messages (which increases client/server communication speed and the optimized variable sort, especially on wide datasets) and faster data loading
 - Multiple instances of the SPSS Batch Facility (SPSSB) can run while the server framework manages the processes
 - Additional tools to increase productivity and performance

Copy-free data access in SQL DBMS

- Perform analysis without the need to convert data to SPSS format (data must be at the same level as the current ODBC)
- ▣ Sort and aggregate data inside the database prior to its retrieval for analysis

- Easily read in data tables with the SPSS Data Access Pack
- Read data stored in SPSS (SAV) format

Ability to launch multiple sessions

- Run multiple sessions of SPSS simultaneously on the same desktop
- Access multiple datasets simultaneously by running multiple sessions from a single desktop of SPSS client

Security

- Work efficiently within your vendor’s security framework
 - Require password protection when clients access SPSS Server
 - Set security levels and require passwords to access data sources
- Receive support for Open SSL

Communications framework between client and server

- Move client freely between server and local mode
- Work in a multi-platform environment (for example, use a Windows client with a UNIX® server)
- Work in multiple locations (for example, Japanese and French SPSS clients can be attached to a single English version of SPSS Server)

SPSS Batch Facility (SPSSB)

- Automate production of SPSS data preparation and statistical reports through command syntax files in a UNIX script or Windows batch files without requiring an active and connected SPSS client
- Use the following output formats: Text, HTML, and XML
- Save prepared data to the SPSS (SAV) file format
- Run more efficiently in a production environment using return codes
- ▣ Create any SPSS chart type (except SPSS Maps™ and interactive graphics) and export it in HTML format

Tunneling protocol

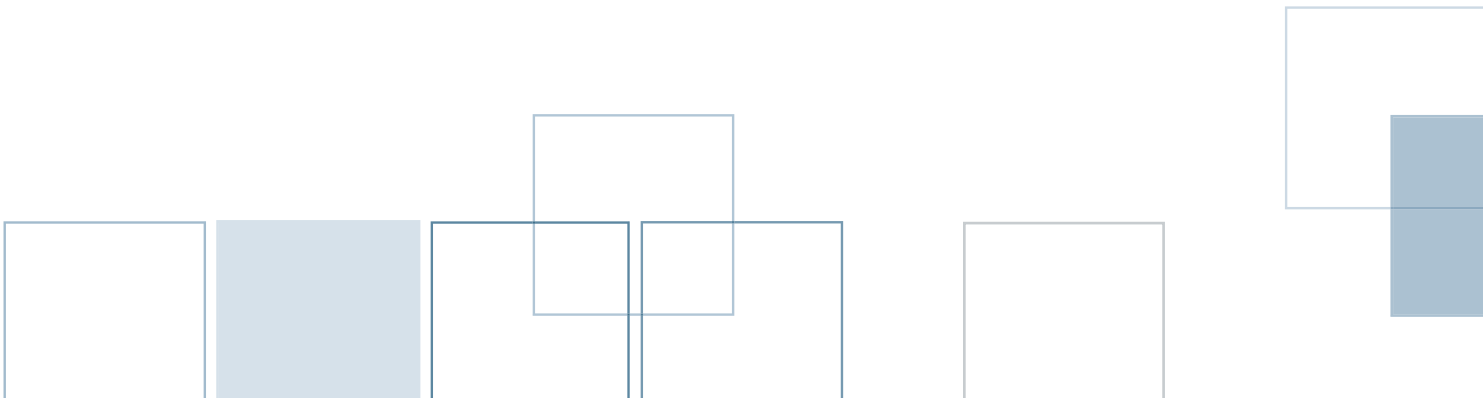
- Enable remote users to analyze data from off-site locations while keeping the data and SPSS Server safely behind a firewall. Modern internationalized communications protocols are included with SPSS Server to enable users to connect to SPSS server using:
 - Point-to-Point Tunneling Protocol (PPTP)
 - Level 2 Tunneling Protocol (L2TP)
 - Network Address Translation (NAT)

Features subject to change based on final product release.

▣ Symbol indicates a new feature.

▣ “SPSS Server is much faster and gives more time to focus on strategy rather than the analysis....We can run a command and see the results almost immediately.”

– Jon White
Customer Database Analyst
Direct Wines



Administrator controls

- Work with a utility that assists the SPSS administrator in monitoring and managing SPSS usage on the server
 - Start/stop user sessions
 - Start/stop server processes
 - Log events
 - Tune use of the server
- ☐ Assign priority to individual users
- ☐ Assign a unique disk to individual users for temporary files
 - Disconnect users

Increase functionality beyond that of the desktop version

- Leverage the same functionality as the client-only product: Graphical user interface (GUI) or syntax-driven capabilities in all areas, including statistics, graphics, OLAP report cubes, and data transformations
- Increase the tools available for preparing data and creating reports using tools unique to the server version
 - ☐ In-database sort and aggregate control
 - ☐ Open multiple XML models from SPSS, Clementine, or AnswerTree and score new data using a scoring engine
- SPSS Batch Facility

Ability to maximize use of enterprise-level servers

- ☐ Automatically detect and use SyncSort** for high-performance sorting with dynamic optimization and parallel processing when using multiple processors and patented performance algorithms
- Harness the full power of your multiple CPU servers using multithreaded ODBC to access your data
- Take advantage of your powerful 64-bit machines with the upcoming 64-bit version of SPSS Server (contact your representative about availability)

Available on several server platforms

- Windows Server 2003 and 2000
- Sun™ Solaris™ 2.8 and later
- IBM® AIX® 4.3.3 and later
- Red Hat® Linux® 8.0 and later

System requirements

System requirements vary according to platform, number of concurrent users, amount of data, and planned tasks. Contact your SPSS account representative for requirements on your platform, given your anticipated use scenario.

** Must be purchased separately; contact your account representative for more information.

To learn more, please call Technologies4Targeting Ltd +44 (0)1733 890790 or visit www.tech4t.co.uk/spss

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