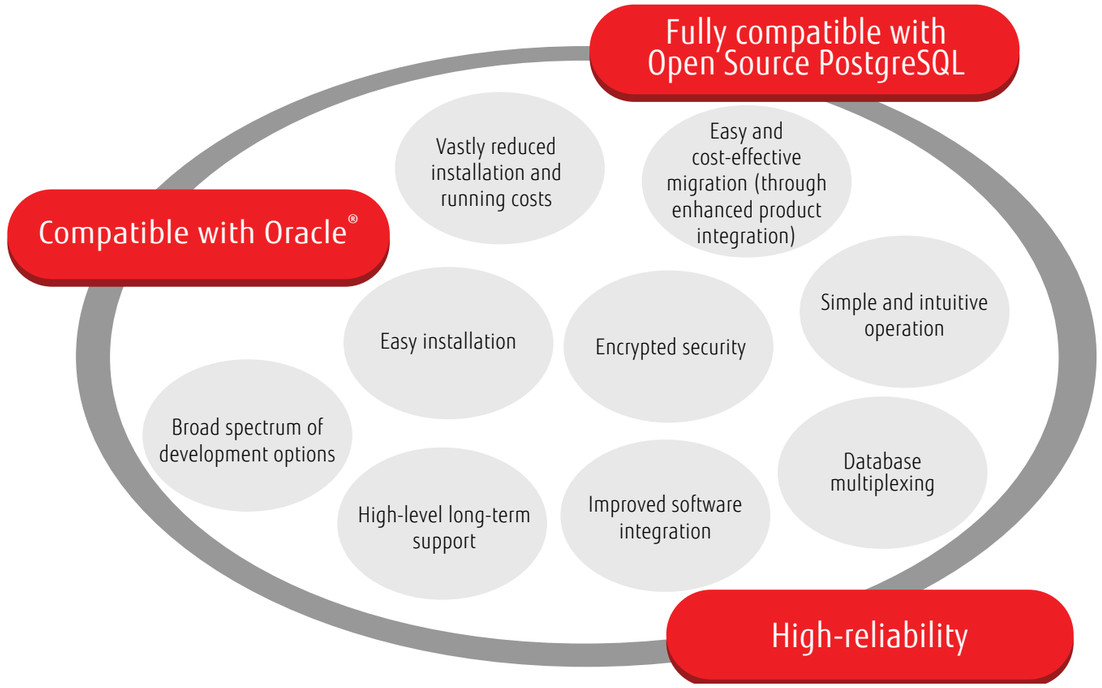
Features & Benefits



Supported Operating Systems

Product	Server Operating System	Client Operating System
Symfoware Server V12.1	Microsoft® Windows Server® 2012 R2 Microsoft® Windows Server® 2012 Microsoft® Windows Server® 2008 R2 Microsoft® Windows Server® 2008 Microsoft® Windows Server® 2003 (Intel64) Microsoft® Windows Server® 2003 Red Hat Enterprise Linux 7 (Intel64) Red Hat Enterprise Linux 6 (Intel64) Red Hat Enterprise Linux 6 (x86) Red Hat Enterprise Linux 5 (Intel64) Red Hat Enterprise Linux 5 (x86)	Windows® 8.1 Windows® 8 Windows® 7 Windows Vista® Microsoft® Windows Server® 2012 R2 Microsoft® Windows Server® 2012 Microsoft® Windows Server® 2008 R2 Microsoft® Windows Server® 2008 Microsoft® Windows Server® 2003 (Intel64) Microsoft® Windows Server® 2003 Red Hat Enterprise Linux 7 (Intel64) Red Hat Enterprise Linux 6 (Intel64) Red Hat Enterprise Linux 6 (x86) Red Hat Enterprise Linux 5 (Intel64) Red Hat Enterprise Linux 5 (x86)

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Data Sheet Symfoware Server V12

FUJITSU

Fujitsu Software
Symfoware Server V12

A high-performance, high-reliability and high-availability relational database that is quick to set up and easy to use

Symfoware Server is a relational database management system that delivers high performance and high reliability. It incorporates Fujitsu's own database technology and Open Source PostgreSQL to provide an RDBMS that can be used with a wide range of applications where fast and effective data management is of paramount importance.

Symfoware Server leverages the technology of Open Source PostgreSQL, the world's most advanced open-source database system. As a result, **Symfoware Server** is fully compatible with Open Source PostgreSQL and applications can run un-changed.

Fujitsu's development team has introduced cutting-edge setup and recovery features that ensure seamless integration into any existing business system to provide hassle-free installation, along with easy and intuitive operation for the end user. System Managers now no longer have to meet the challenge of allocating specific database expertise.

Enhanced compatibility with Oracle® databases has been achieved by using the SQL interface and Connectors of Open Source PostgreSQL.

A broad spectrum of development options are made available through the use of carefully considered software bundles, information utilization systems, development tools, and application runtime environments.

The improved high reliability and high performance along with the advantage of long-term support and a competitive price point has created substantial benefits to further compliment intelligent business data systems for enterprises.

Symfoware Server provides effective solutions to common business challenges

Problem	Solution
High-cost of database migration	Easy migration from PostgreSQL / Oracle®
Increasing technical staff overheads	**Easy** setup technology
High risks associated with data loss or downtime	• Database multiplexing • One-click recovery technology
Inadequate or unreliable support mechanisms	Fujitsu long-term support

Features

- Easy installation
- Easy setup
- Easy recovery
- Simplified migration
- PostgreSQL compatible
- Oracle compatible SQL layer
- Support for Oracle packages and functions
- Standby clustering
- Database multiplexing (from V12.1)
- Performance monitoring (from V12.1)
- Index-only scans
- Range types
- Secure data encryption
- Web-based and command line interfaces
- Application development support
- Linux and Windows support

Benefits

- Simplified setup and recovery
- Seamless integration into pre-existing systems
- Reduced staff overheads
- Cost-effective migration process
- Increased flexibility and scalability
- Increased transaction throughput
- Simplified queries
- Better scheduling ability
- Provision for ultra fine-grained query statistics for use with monitoring tools
- Proven product quality
- Guaranteed support

Easy Setup and Support

Reduced database design and implementation expenditure

Symfoware Server employs a minimal setup process based on optimized resource deployment. The setup process performs dynamic hardware resource detection during installation and the software is automatically tuned with the customer's server configuration. Using this method the parameter and backup settings are all completed during the deployment of the system.

Fujitsu's innovative development methodology has been a key factor in producing an installation process that takes just 3 simple steps to perform:

1. Launch the installer (the installation is completed using automatically tuned values)

2. Launch WebAdmin (A web based administration client)

3. WebAdmin can be used to create new instances and also to configure backup and recovery options

This simplified installation and setup process allows **Symfoware Server** to be implemented within a very efficient time frame.

One-click recovery technology

If a database problem occurs or if data is accidentally deleted, recovery can be performed with a single click, so there is almost no need for technical user intervention.

Database multiplexing (new feature for V12.1)

Enables continuous job processing with no downtime when an error occurs, data is synchronized across the primary and secondary server.

Performance monitoring (new feature for V12.1)

Performance information is fully utilized as it is based on the Symfoware support knowledge base so that performance issues can be quickly identified to improve performance. This is done by using the information in the view table.

Easy Migration

Easy and cost-effective migration

Symfoware Server has been designed to be fully compatible with Open Source PostgreSQL databases, and also offers enhanced compatibility when migrating from existing Oracle® systems.

Previously, migration has proved problematic and in many cases been avoided due to the high workload and expenditure required. This problem is resolved by significantly reducing migration time so that budget restraints and business disruption are no longer a concern; the migration process has now become much more streamlined.

Enhanced system integration

PostgreSQL technology enables integration with a wide range of software bundles, information utilization systems, development tools, and application runtime environments. Investing in additional software systems in addition to any migration costs is no longer a consideration. User disruption is also avoided due to the ability to retain software products that users are already familiar with.

PL/extJava (new feature for V12.1)

By supporting development of stored procedures using Java the same programming language can be used for both client and server applications.

Fujitsu Support

Fast and effective support

The **Symfoware Server** Development Division works in unison with the Support Division to provide a permanently aligned best-of-breed support service.

Long-term support

Long-term standard support is provided for a period of five years, starting from the end of the sales phase for the product release. In addition, an extended support option is available for ongoing assurance, so that future support and system confidence is a guaranteed business outcome.

Technical Specification

Item			Symfoware Server V12	
Basic architecture	Max. number of columns in table		1,600	
	Max. row length in table		Up to 400 GB	
	Max. number of rows in table		Unlimited	
	Max. number of indexes per table		Unlimited	
	Index storage format in table		btree	Gist
			hash	GIN
	Data types	Character types	CHARACTER	NCHAR
			CHARACTER VARYING	NCHAR VARYING etc
			text	
		Numeric types	smallint	real
			integer	double precision
			bigint	serial
			decimal	bigserial
			numeric	smallserial
		Datetime types	timestamp	interval
			date	time
			timestamp with time zone	
		Binary data types	bytea	
		XML	Yes	
	Character set	UNICODE	Yes	
	Multilingual support		Yes (149 locales)	
Security	Data Encryption		Yes	
Reliability	Standby		Yes	
Application development	SQL standard		Compliant with ANSI/ISO SQL: 2011	
	Oracle compatible SQL		Outer join operator	
			DUAL table	
			Functions (SUBSTR / NVL / DECODE)	
			Built-in packages (UTL_FILE / DBMS_OUTPUT / DBMS_SQL)	
	Language	C	Yes	
		COBOL	Yes	
	Interface	ODBC	Yes	
		JDBC	Yes	
		.NET Framework	Yes	
		Additional standard interfaces	Yes	
	Development environment (Eclipse, Visual Studio, etc)		Yes	
	Stored procedures / Functions		Yes	
	Access control	Deadlock automatic detection	Yes	
		Query by other transactions during updates	Multi version control	
Support	High quality long-term support		Guaranteed	