

Grow with  
Fujitsu  
Enterprise  
Postgres





# PostgreSQL-based, highly reliable relational database management system

As your business grows, so does your data. Fujitsu Enterprise Postgres is a PostgreSQL-compatible, highly reliable relational database management system that enhances your business at every stage, and well into the future, no matter how technology changes over time.

As an enterprise-grade relational database management system, it offers open source value and enterprise quality as well as acting as a mainstay for mission-critical applications.

Being fully compatible with open source PostgreSQL means that you can enjoy the benefits of open source along with a set of additional enterprise features for significantly improved performance, security, and usability.

Fujitsu Enterprise Postgres is free from vendor lock-in providing utmost flexibility, and is extremely cost-effective compared to proprietary databases in the market. Fujitsu's strong foothold in mission-critical enterprise systems backs the technological strength that Fujitsu Enterprise Postgres offers.

Fujitsu Enterprise Postgres leverages the inherent solidity and reliability of PostgreSQL, a feature-rich open source database management system backed by millions of active users worldwide, enabling integration with a wide range of software, information utilization systems, development tools, mission-critical database systems and application runtime environments.

The growth of your business is supported by Fujitsu every step of the way. Fujitsu's state-of-the-art technologies offering high reliability and performance walk hand-in-hand with highly acclaimed support to further complement intelligent business data systems for enterprises.



# Grow your business with the performance, security, reliability, and scalability features of Fujitsu Enterprise Postgres.

Break free from vendor lock-in and capitalize on significant cost saving

## Fujitsu Enterprise Postgres offerings

Fujitsu's flagship database management system combines the strengths of open source PostgreSQL with Fujitsu database technologies. Fujitsu Enterprise Postgres extends PostgreSQL with additional features for improved performance, increased data security, simplified operation, and compatibility with proprietary database systems.

**Full compatibility with PostgreSQL.** Fujitsu Enterprise Postgres has been designed to be fully compatible with open source PostgreSQL databases, and offers enhanced compatibility when migrating from existing proprietary systems.

**Enterprise functionality.** Lightning-fast performance with cutting-edge technologies such as In-Memory Column Store (IMCS)\*. Reinforced security with Data Masking and PCI-DSS compliant Transparent Data Encryption. An enhanced management console enables simple, intuitive operation of system tasks such as setup, instance management, replication functionality, and database backup and recovery.

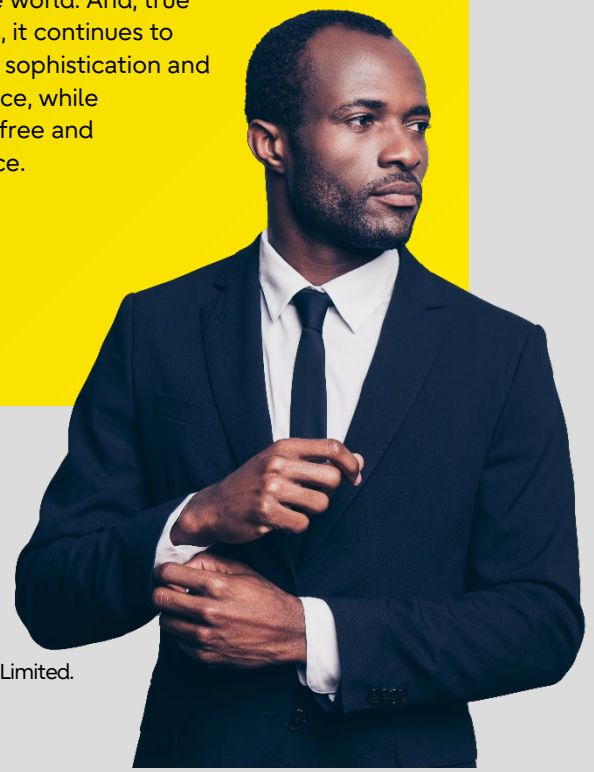
**Professional services.** Fujitsu is a leading global provider of IT services, and has the experience and resources to provide effective database solutions. Use our database migration assessment service to determine the feasibility of migrating your database to Fujitsu Enterprise Postgres. The assessment provides a clear picture of what will be required for successful migration. Fujitsu can assess all major vendor databases and advise alternatives that provide significant cost savings.

## PostgreSQL offerings

**Feature-rich.** PostgreSQL is the world's most advanced open source relational database system and the 4<sup>th</sup> most used database globally. It is a feature-rich database that has been under active development for nearly 30 years. Its proven architecture has earned it a strong reputation for reliability, stability, data integrity, performance, extensibility, and standards-compliance. It runs on all major OS.

**Enterprise-class.** An enterprise-class database, PostgreSQL has sophisticated features found only in advanced proprietary DBMSs, without the ever-increasing cost of renewal fees imposed by major database vendors. Features include Multi-Version Concurrency Control point in time recovery, tablespaces, asynchronous replication, write ahead logging for fault tolerance, online/hot backups, save points, query planner/optimizer, and more. PostgreSQL is highly scalable both in the quantity of data and number of users it can support.

**Perpetually open source.** PostgreSQL is the ideal database, under continual improvement by hundreds of dedicated developers from around the world. And, true to its roots, it continues to improve in sophistication and performance, while remaining free and open source.



\* IMCS is implemented using Vertical Clustered Index (VCI), a technology of Fujitsu Laboratories Limited.

# Technical details

Item		Fujitsu Enterprise Postgres				
Basic architecture	Max. number of columns in table		1,600			
	Max. row length in table		1.6 TB			
	Max. number of rows in table		Unlimited			
	Max. number of indexes per table		Unlimited			
	Index storage format in table		B-tree		BRIN	GIN
			hash		GiST/SP-GiST	VCI (Fujitsu's IMCS)
	Data types	Character types	CHARACTER		NCHAR	text
			CHARACTER VARYING		NCHAR VARYING	
		Numeric types	bigint		integer	smallint
			bigserial		numeric	smallserial
			decimal		real	serial
		Datetime types	date	time	time with time zone	
			interval	timestamp	timestamp with time zone	
		Binary data types	bytea	Large object		
		XML	Yes			
		JSON	Yes			
	Character set	UNICODE	Yes			
	Multilingual support		Yes (149 locales)			
AI	Generative AI for enterprise		Knowledge data can be managed in vector and graph formats			
	AI app development support		Integration with RAG development framework LangChain			
Security	Transparent data encryption		256-bit (compliant with PCI-DSS)			
	Data masking		Full masking   Partial masking   Regular expression masking			
	Dedicated audit log		Yes (compliant with PCI-DSS)			
	Key management for Transparent Data Encryption					
	Cloud-based key management					
	Confidentiality management					
	Policy-based login security					
Reliability	Standby		Yes			
	Split brain control		Yes			
	Instant failover		Yes			
	Transparent connection		Yes (ability to connect to database server without knowing its stage)			
Performance	In-Memory Columnar Index		Yes (implemented via Fujitsu's Vertical Clustered Index)			
	High-speed backup / recovery		Yes			
	High-speed data load		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   DBMS_ALERT   DBMS_ASSERT   DBMS_PIPE   DBMS_RANDOM   DBMS_UTILITY   PLUNIT   PLVCHR   PLVDATE   PLVLEX   PLVSTR   PLVSUBST)			
	Language		C	COBOL		
	Interface		ODBC	JDBC	.NET Framework	
	Development environments		Yes (Eclipse, Visual Studio, etc.)			
	Stored procedures / functions		Yes			
	Access control	Deadlock automatic detection	Yes			
		Query by other transactions during updates	Multiversion control			
High-quality long-term support		Guaranteed				

# Supported environments

## Fujitsu Enterprise Postgres 17

	Server operating system	Client operating system
Windows	<ul style="list-style-type: none"><li>• Windows Server 2025 (64 bit)</li><li>• Windows Server 2022 (64 bit)</li><li>• Windows Server 2019 (64 bit)</li><li>• Windows Server 2016 (64 bit)</li></ul>	<ul style="list-style-type: none"><li>• Windows Server 2025 (64 bit)</li><li>• Windows Server 2022 (64 bit)</li><li>• Windows Server 2019 (64 bit)</li><li>• Windows Server 2016 (64 bit)</li><li>• Windows 11 / 10 (64 bit, 32 bit) *</li></ul>
Linux	<ul style="list-style-type: none"><li>• Red Hat Enterprise Linux 9.2 or later minor version</li><li>• Red Hat Enterprise Linux 8.6 or later minor version</li><li>• SUSE Linux Enterprise 15 SP4 or later minor version</li></ul>	<ul style="list-style-type: none"><li>• Red Hat Enterprise Linux 9.2 or later minor version</li><li>• Red Hat Enterprise Linux 8.6 or later minor version</li><li>• SUSE Linux Enterprise 15 SP4 or later minor version</li></ul>
on IBM Z and LinuxONE (s390x)	<ul style="list-style-type: none"><li>• Red Hat Enterprise Linux 9.2 or later minor version</li><li>• Red Hat Enterprise Linux 8.6 or later minor version</li><li>• SUSE Linux Enterprise 15 SP4 or later minor version</li></ul>	<ul style="list-style-type: none"><li>• Red Hat Enterprise Linux 9.2 or later minor version</li><li>• Red Hat Enterprise Linux 8.6 or later minor version</li><li>• SUSE Linux Enterprise 15 SP4 or later minor version</li></ul>
on IBM Power ® (ppc64le)	<ul style="list-style-type: none"><li>• Red Hat Enterprise Linux 9.2 or later minor version</li><li>• Red Hat Enterprise Linux 8.6 or later minor version</li><li>• SUSE Linux Enterprise 15 SP4 or later minor version</li></ul>	<ul style="list-style-type: none"><li>• Red Hat Enterprise Linux 9.2 or later</li><li>• Red Hat Enterprise Linux 8.6 or later minor version</li><li>• SUSE Linux Enterprise 15 SP4 or later minor version</li></ul>

\*: If Windows is 32 bit, only the Windows client (32 bit) can be installed

# About Fujitsu

**Trust and performance for over 80 years.** Since it was founded back in 1935, Fujitsu has been innovating information and communication technologies (ICT) across the globe. A long line of landmark achievements and product milestones have made Fujitsu what it is today — a leading company in the ICT space.

**Experience — 40 years of database development.** Fujitsu Enterprise Postgres is the outcome of Fujitsu's experience in developing enterprise databases for 40 years, its vision for and commitment to open source, its contributions to PostgreSQL and its active participation in the PostgreSQL open source community.

**Proudly supporting customers around the world.** As Japan's largest and the world's fifth largest IT services provider, Fujitsu proudly supports customers in more than 100 countries with over 126,000 Fujitsu employees. We utilize our experience and the power of ICT to shape the future of society for our customers.

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