

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.

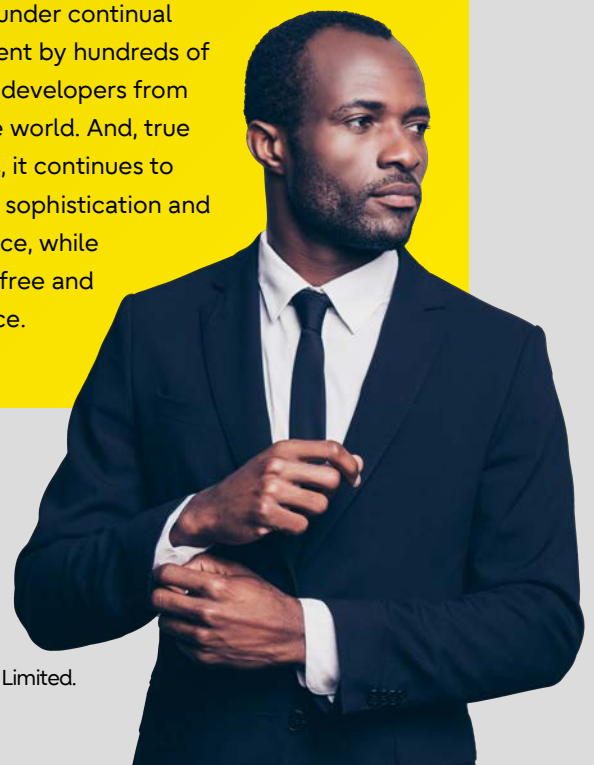
Professional services. Fujitsu is a leading global provider of IT services, and has the experience and resources to provide effective database solutions. Use our database migration assessment service to determine the feasibility of migrating your database to Fujitsu Enterprise Postgres. The assessment 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 4th most used database globally. It is a feature-rich database that has been under active development for more than 15 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, savepoints, 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	double precision	
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)					
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)				
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

	Server operating system	Client operating system
Windows	<ul style="list-style-type: none">• Windows Server 2022 (64 bit)• Windows Server 2019 (64 bit)• Windows Server 2016 (64 bit)	<ul style="list-style-type: none">• Windows Server 2022 (64 bit)• Windows Server 2019 (64 bit)• Windows Server 2016 (64 bit)• Windows 11 / 10 / 8.1 (64 bit, 32 bit) ^{*1*2}
Linux	<ul style="list-style-type: none">• Red Hat Enterprise Linux 7.4 or later• Red Hat Enterprise Linux 8.2 or later• SUSE Linux Enterprise 15 SP3• SUSE Linux Enterprise 12 SP5	<ul style="list-style-type: none">• Red Hat Enterprise Linux 7.4 or later• Red Hat Enterprise Linux 8.2 or later• SUSE Linux Enterprise 15 SP3• SUSE Linux Enterprise 12 SP5
on IBM Z and LinuxONE (s390x)	<ul style="list-style-type: none">• Red Hat Enterprise Linux 8.2 or later• SUSE Linux Enterprise 15 SP3	<ul style="list-style-type: none">• Red Hat Enterprise Linux 8.2 or later• SUSE Linux Enterprise 15 SP3
on IBM Power (ppc64le)	<ul style="list-style-type: none">• Red Hat Enterprise Linux 8.4 or later• SUSE Linux Enterprise 15 SP3	<ul style="list-style-type: none">• Red Hat Enterprise Linux 8.4 or later• SUSE Linux Enterprise 15 SP3

*1: Windows 10 Home/Education/Pro/Enterprise, Windows 8.1 Pro/Enterprise

*2: Windows 11 does not support the 32-bit version

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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