

Fujitsu BS2000/OSD Hardware, Software and Services Portfolio

BS2000/OSD
Mainframe technology in
dynamic IT infrastructures

In today's data centers enterprise systems work on the assumption of maximum data and application availability as well as outstanding economic efficiency as indispensable attributes. It must be possible to design and monitor a system in such a way that individual defects do not bring the system to a standstill. BS2000/OSD Business Servers are outstandingly successful in meeting these prerequisites.

The BS2000/OSD mainframe operating system is a highly available, scalable, high-performance basis for business-critical applications that is totally compatible across numerous versions. The BS2000/OSD mainframe operating system with its open interfaces enables outstandingly flexible and future-proof integration into modern application architectures.



FUJITSU

shaping tomorrow with you

Reliability coupled with Flexibility

High-end Performance with BS2000/OSD Mainframes

BS2000/OSD Business Servers

- Most economical component for the processing of large amounts of data and supporting numerous end users in the server pool of service-oriented IT infrastructures
- Ideal platform for the design of new business processes through the integration of state-of-the-art technologies

Excellent features of mainframes

- Best TCO values with a high number of end users
- High availability during normal IT operations and in case of a disaster
- Large amounts of data and scalability over an enormous performance bandwidth without any technological leaps

Business Servers S175 and S210

- High-end mainframes with state-of-the-art innovative technology
- Maximum stability, scalability and high performance for databases and applications
- Outstanding energy efficiency and low space requirements with at the same time maximum user numbers and changing workloads
- Capacity on demand for temporary processor activation
- High overall productivity due to excellent mono and system performance

Business Server SQ210

- Innovative mainframe platform for BS2000/OSD, Linux and Windows applications based on state-of-the-art INTEL XEON MP™ technology
- Powerful BS2000/OSD mainframe for entry level and medium range performance
- Investment protection through object-compatible functionality of all BS2000/OSD applications
- Business Server with improved BS2000/OSD performance supports up to 16 BS2000 processors
- Optional use of application units (AU) for x86 applications, support of Linux and Windows, virtualization with VMware

"State-of-the-art" high availability for mainframe guest systems and applications

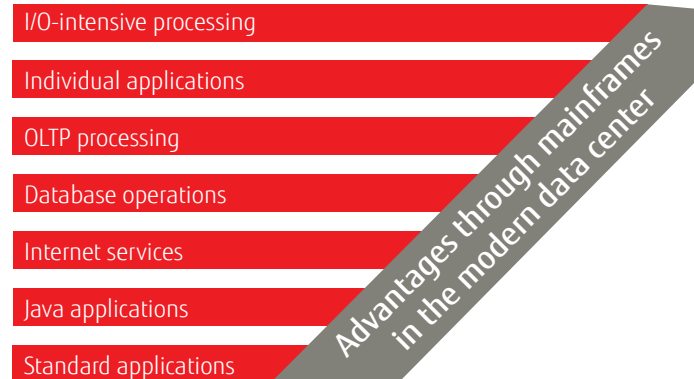
High Availability (HA) features of the Business Server SQ series

"Always-on" availability of mainframe applications thanks to LiveMigration (LM)

- LiveMigration (LM) is the world's first and only feature on mainframes to offer the customer through downtime elimination a maximum degree of availability for the users of these "business-critical" applications. Application areas are e.g. server/infrastructure maintenance slots or optimal workload management through the uninterrupted relocation of mainframe guest systems and applications during ongoing operation.

"Best-in-class" business continuity through High Availability (HA)

- High Availability (HA) is an innovative solution for mainframe infrastructure that minimizes unplanned downtimes (e.g. due to power outages, operating errors, etc.). Implementation is through the automatic restarting of systems and applications in a cluster failover solution. The availability of individual mainframe guest systems and applications can be automated and prioritized according to customer requirements. High Availability stands out here due to its very easy configuration and ease of use.






More information about BS2000 software can be found at:

www.fujitsu.com/fts/bs2000

BS2000/OSD Business Server Portfolio

Flexible – Efficient – Reliable

	Business Server SQ210 	Business Server S175 	Business Server S210 
Operating System	BS2000/OSD V9.0 (OSD/XC V9.0) or higher (Linux, Windows)	BS2000/OSD V7.0 or higher	BS2000/OSD V7.0 or higher
Processor type	Intel® Xeon® E7	CMOS in /390 architecture	CMOS in /390 architecture
Number of BS2000/OSD-processors	1 – 16 (cores)	1 – 3 (cores) 1 hot spare CPU	2 – 15 (cores) 1 hot spare CPU
Number of Linux-, Windows-processors	0 – 23 cores (for Linux, Windows)		
Application units	Optional 1 to 4 for Linux and Windows applications		
Performance	12 – 1,750 RPF* with 16 models	170 – 1,040 RPF* with 9 models	990 – 5,000 RPF* with 10 models
Main memory	16 – 512 GB (guest systems max. 352 GB)	up to 64 GB	up to 256 GB
Global storage		2 – 64 GB	2 – 128 GB
I/O processors		1 – 2 for 128 channels type 2, type S, type FC (Fibre Channel)	2 – 8 for 256 channels type 2, type S, type FC (Fibre Channel)
I/O interfaces		0 – 60 channels type 2 8 – 128 channels type S 0 – 16 channels type FC	0 – 60 channels type 2 8 – 256 channels type S 0 – 64 channels type FC
I/O processors	4 – 8 cores for X2000		
I/O interfaces	Fibre Channel; Ethernet; SAS		
Base rack	Server unit with CPU and I/O processor, memory modules, PCIe controllers, management console, TFT display, LTO drive	<ul style="list-style-type: none"> ■ CPU, spare CPU and I/O processor ■ Main storage ■ System control ■ I/O unit for 96 channels ■ Service Control Processor (SCP) 	<ul style="list-style-type: none"> ■ CPU, spare CPU and I/O processor ■ Main storage ■ System control ■ I/O unit for 256 channels ■ Service Control Processor (SCP)

More information about BS2000 software can be found at:

www.fujitsu.com/fts/bs2000/server

* RPF = Relative Performance Factor (1 RPF = 1,5 MIPS)

BS2000/OSD Software Portfolio

More than 100 Mainframe Products

Fujitsu covers all the relevant topics of modern data centers with more than 100 mainframe software products.

<p>Operating System BS2000/OSD</p> <p>Meets all important requirements of dynamic data centers as a fully compatible basis for business-critical applications</p> <p>Benefit Highly efficient platform</p> <p>Products</p> <ul style="list-style-type: none"> ■ BS2000/OSD ■ OSD/XC 	<p>Database systems</p> <p>Achieves secured, consistent, integrated and highly scalable information management</p> <p>Benefit Consistent data provision</p> <p>Products</p> <ul style="list-style-type: none"> ■ LEASY ■ ORACLE ■ SESAM ■ UDS/SQL 	<p>Integration</p> <p>"openSEAS" integrates BS2000/OSD applications (incl. corporate applications) into the Internet, also via mobile devices</p> <p>Benefit Internet access 24 hours a day</p> <p>Products</p> <ul style="list-style-type: none"> ■ BeanConnect ■ openFT ■ openUTM ■ WebTA 	<p>Job management</p> <p>Automates routine work and cross-platform functions</p> <p>Benefit Administration optimization</p> <p>Products</p> <ul style="list-style-type: none"> ■ AVAS ■ JV ■ SDF-A ■ SDF-P 	<p>Communication and Internet</p> <p>Offers open network architecture, selected interoperability features and optimized e-mail standards in accordance with communication systems</p> <p>Benefit Access to open networks</p> <p>Products</p> <ul style="list-style-type: none"> ■ Apache ■ interNet Services ■ openNet Server ■ TIAM, MT9750
<p>Performance management</p> <p>Analyzes and controls system performance in order to optimize load distribution</p> <p>Benefit Optimal performance and load distribution</p> <p>Products</p> <ul style="list-style-type: none"> ■ COSMOS ■ DAB ■ openSM2 ■ PCS, RAV ■ SCA, SM2-PA 	<p>Print management</p> <p>Provides all the services required to implement corporate print concepts</p> <p>Benefit Printing in networks on a cross-platform basis</p> <p>Products</p> <ul style="list-style-type: none"> ■ DPRINT ■ RSO 	<p>Programming systems</p> <p>Creates the foundation for professional development of individual applications on BS2000/OSD systems</p> <p>Benefit Easy of use</p> <p>Products</p> <ul style="list-style-type: none"> ■ ASSEMBH, C/C++, COBOL, CRTE ■ FOR 1, Pascal-XT, PL/ 1 ■ JENV (JAVA) ■ AID, COLUMBUS 85 ■ FHS, IFG 	<p>Security</p> <p>Offers exacting security concepts for a dynamic data center</p> <p>Benefit Maximum security</p> <p>Products</p> <ul style="list-style-type: none"> ■ openCRYPT Serv ■ openCRYPT Soft ■ SECOS 	<p>SNMP management</p> <p>Supports cost effective and efficient management of disparate systems in a corporate network</p> <p>Benefit Integration network</p> <p>Products</p> <ul style="list-style-type: none"> ■ SBA-BS2 ■ SSC-BS2 ■ SSA-SM2-BS2 ■ SSA-OUTM-BS2
<p>Storage management</p> <p>Permits the best possible benefit to be drawn from the handling and use of connected storage media</p> <p>Benefit Integration of storage systems and backup</p> <p>Products</p> <ul style="list-style-type: none"> ■ HSMS/ARCHIVE, FDDRL ■ ROBAR, PROP-TPM ■ SHC-OSD, SCCA-BS2 ■ MAREN, SPACEOPT 	<p>System management</p> <p>Covers products for the support and automation of system operation</p> <p>Benefit Central management</p> <p>Products</p> <ul style="list-style-type: none"> ■ OMNIS ■ OMNIS-Menu ■ OMNIS-PROP ■ PROP-XT 	<p>Utilities</p> <p>Adapts IT solutions with special utilities to customized requirements in a very flexible way</p> <p>Benefit Support of individual customer solutions</p> <p>Products</p> <ul style="list-style-type: none"> ■ EDT, FMS, LMS ■ NFS, RFA ■ PERCON, SORT ■ TASKDATE 	<p>Availability</p> <p>Ensures constant availability for business-critical applications (from standard operations through to a disaster)</p> <p>Benefit Constant availability (24/7)</p> <p>Products</p> <ul style="list-style-type: none"> ■ HA/LM ■ HIPLEX-AF ■ HIPLEX-MSCF ■ DRV 	<p>Virtualization</p> <p>Enables several virtual systems to be processed simultaneously on one server</p> <p>Benefit Efficient resource utilization</p> <p>Products</p> <ul style="list-style-type: none"> ■ VM2000

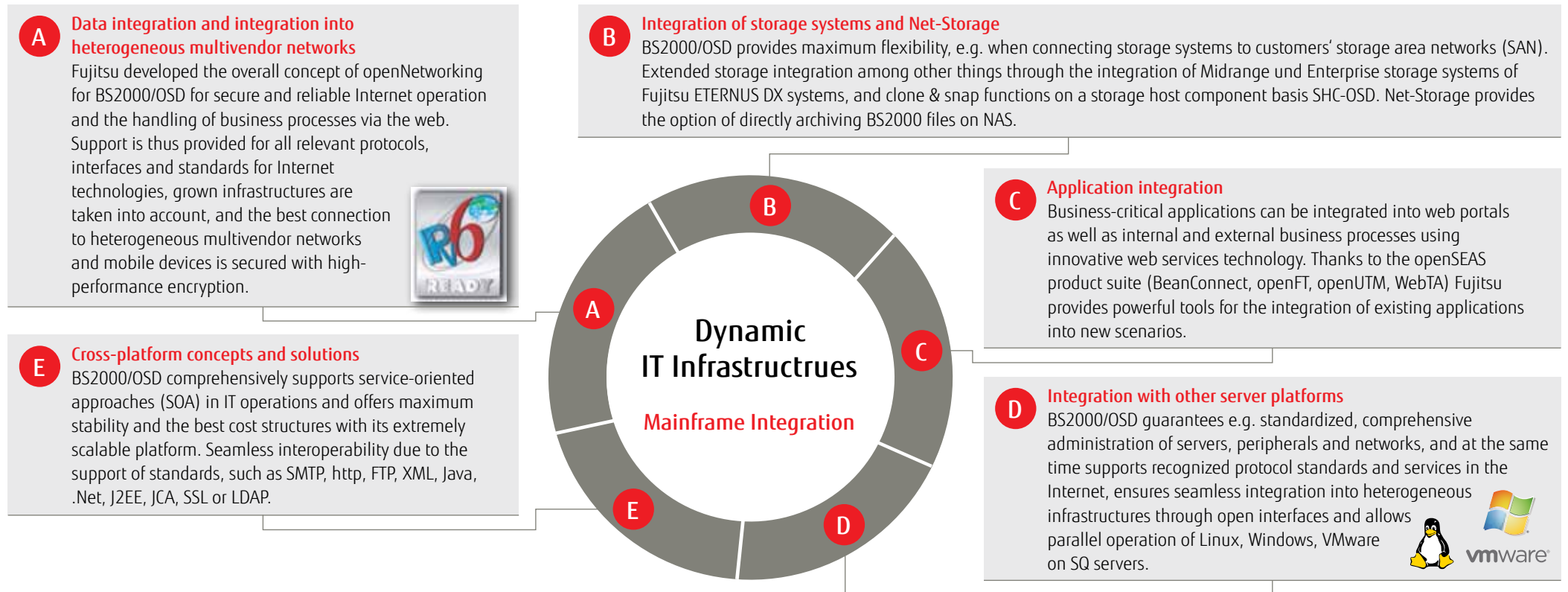
More information about BS2000/OSD Software can be found at:

www.fujitsu.com/fts/bs2000/software

* BS2000/OSD (OpenSystems Dimension)

Dynamic IT Infrastructures

Integration of BS2000/OSD Mainframes



Excellent integration through proven mainframe qualities

<p>Automation Automation of essential processes, from system operation and job handling across all operating systems right through to the failover and backup of cost effective administration, efficient resource utilization and 24/7 hour operation.</p>	<p>High availability Particularly reliable hardware and software as well as numerous system functions ensure the highest availability (99.999%). Failover cluster concepts enable optimal utilization of system resources for operational, capacity and availability clusters of several servers.</p>	<p>Virtualization This key technology enables extensive consolidation, adapts resource utilization to the changing requirements of business processes in the best way possible and significantly increases server utilization.</p>	<p>Management Intelligent system management ensures economic operation, optimal utilization of system resources and provides services on a network-wide and interoperable basis.</p>	<p>Performance & scalability The excellent multiprocessor characteristics and associated enormous scalability ensure almost unlimited growth in all sectors including high-end – with no need to change the system.</p>
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For more information:

Contact: bs2marketing@ts.fujitsu.com

BS2000/OSD Services and Support

Efficiency and Economy of Operational Procedures

Increase the efficiency of your operating procedures

Uncompromising availability and operational security of BS2000 systems with maximum economic viability and cost transparency are essential. Fujitsu's complete ecosystem of consulting, services, logistics and support helps you to reduce your overall IT costs, secure your IT operations on a high-availability basis and simultaneously create intelligent solutions in order to keep your IT infrastructure efficient and sustainable.

BS2000/OSD Services & Support in Dynamic Infrastructures

Managed Infrastructure	Managed Data Center BS2000 Remote and local services (system administration, consulting services) Financial Services (AIP, CoD)
Infrastructure as a Service	BS2000 Infrastructure as a Service Providing BS2000 IT infrastructure and staff by Fujitsu (productive-, information and archive systems and disaster recovery)
Infrastructure Solutions	BS2000 Solutions (DB offload, SOA Integration, Consult, Design, Build, Services, Training, etc.)
Infrastructure Products & Services	BS2000 Hardware- /Software- / Middleware-Portfolio (S/SQ Business Server, BS2000/OSD, BS2000/OSD-XC, openSEAS) Maintenance and Support Services (remote/local, SLAs, etc.)

Information about BS2000 services can be found at:

- www.fujitsu.com/fts/bs2000/services
- Contact: expert.bs2000@ts.fujitsu.com



More information:

www.fujitsu.com/fts/bs2000

Contact: bs2marketing@ts.fujitsu.com

BS2000/OSD Training Course Offerings

Standard and Customized Training Courses

Fujitsu has a comprehensive offer of technical training courses for BS2000/OSD products. On request, training course contents can be specifically adapted to customer requirements and, if required, training courses can also be held as in-house courses.

Topics:

- BS2000 Fundamentals
- BS2000 System applications
- BS2000 System operation
- BS2000 System support
- BS2000 Integration into data center infrastructure
- Application development products

Information about BS2000 training courses can be found at:

- www.fujitsu.com/fts/bs2000
- Contact: training@ts.fujitsu.com

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