

Tuxera SMB technical specifications

General information

Supported operating systems	<ul style="list-style-type: none"> Android, Linux
Hardware architectures	<ul style="list-style-type: none"> ARM, ARM64, Intel x86/x86_64 or compatible, MIPS, PowerPC, and more Flexible dual-port architecture: user- and kernel-space solutions
Supported client platforms	<ul style="list-style-type: none"> Windows XP, Windows 7, Windows 8, Windows 8.1, Windows 2008 Server, Windows 2012 Server, Windows 10, Mac OS X (various), and various Linux distributions
Capacity	<ul style="list-style-type: none"> No limits on volume size, file size, directories or files except those imposed by the underlying file system. Based on the available system memory, Tuxera SMB server can accommodate any number of clients.

System requirements

Minimum system requirements	<ul style="list-style-type: none"> RAM: 32 MB CPU frequency: 30 MHz 	Memory and CPU footprint	<ul style="list-style-type: none"> Read-write: 140–160 KiB Read-only: 70–80 KiB
-----------------------------	---------------------------------------------------------------------------------------------	--------------------------	---------------------------------------------------------------------------------------------------------

Features

Supported protocol dialects	<ul style="list-style-type: none"> CIFS, SMB v1.0, SMB v2.0, SMB v2.1, SMB v3.0, SMB v3.0.2, SMB v3.1.1
Protocol-specific features	<ul style="list-style-type: none"> Printer sharing Unix extension support User account management and related tools Simplified command set (SMB 2) Uniformity: UNICODE, timestamps, etc. (SMB 2) Expanded identifier space (SMB 2) HMAC-SHA256 signing (SMB 2) Dynamic crediting (SMB 2) Durable opens for handling disconnects (SMB 2) Request compounding (SMB 2) Symbolic link support (SMB 2) Encryption (SMB 3) SMB over RDMA (SMB 3) SMB Multichannel (SMB 3)

Extended features

Advanced features for continuous availability and high performance	<ul style="list-style-type: none"> Scale-out awareness Clustered client fail-over Persistent handles Directory leasing
--------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------

Licensing and maintenance

Customization and maintenance	<ul style="list-style-type: none"> Customizable to all software environments and hardware platforms User- and kernel-space solution for a more versatile choice
Licensing	<ul style="list-style-type: none"> Proprietary, commercial

Additional tools

User-space tool	<ul style="list-style-type: none"> Account management Share management tools
-----------------	------------------------------------------------------------------------------------------------------

Performance and reliability

High performance	<ul style="list-style-type: none"> Advanced algorithms, data structures, and low-level system integration ensure maximum I/O throughput, efficient memory and free space management, low CPU usage for small and large files, and high IOPS for file operations. Other features include: tunable settings, and workload-specific optimizations. Low power use for increased battery life. Tuxera's proprietary accelerator and performance optimizations increase network throughput, depending on the platform.
Reliability	<ul style="list-style-type: none"> Rigorous quality assurance, wide deployment, and fault-tolerant design guarantee outstanding robustness.