



Fusion File Share by Tuxera enterprise-grade SMB/Samba server technical specifications

1. General information

Supported operating systems	<ul style="list-style-type: none"> • Linux®, Android™
Hardware architectures	<ul style="list-style-type: none"> • ARM®, ARM64™, Intel® x86/x86_64 or compatible, MIPS®, 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, Windows 2016 Server • Mac OS X® (various) • Linux distributions (various)
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, Fusion File Share can accommodate any number of clients.

2. General features

Supported protocol dialects	<ul style="list-style-type: none"> • CIFS, SMB 1.0, SMB 2.0, SMB 2.1, SMB 3.0, SMB 3.0.2, SMB 3.1.1 		
Protocol-specific features	<ul style="list-style-type: none"> • Durable handles (v1 & v2) • Persistent handles • Oplock and Leases • Unix extension • Symbolic link support 	<ul style="list-style-type: none"> • Dynamic crediting • Pre-authentication integrity • Secure dialect negotiation • Apple Time Machine® support • Browser support 	<ul style="list-style-type: none"> • Printer sharing • Guest access • DFS support
Enterprise environment features	<ul style="list-style-type: none"> • Windows Active Directory: authenticate with Windows AD server and join domains • Audit/logging support • VFS stacking/custom VFS 	<ul style="list-style-type: none"> • Windows quota support • Windows ACL/inheritance • Windows backup • Volume Shadow Copy Services (VSS) for SMB shares • Directory leasing 	
High availability features	<ul style="list-style-type: none"> • Transparent fail-over: persistent handles over an active-passive cluster • Deployable as a container • Witness protocol 		
Security features	<ul style="list-style-type: none"> • Encryption: AES-128-CCM, AES-128-GCM • Signing: HMAC-SHA256, AES-CMAC • Authentication: NTLM, Kerberos, LDAP 		
High performance	<ul style="list-style-type: none"> • Modular and threaded design to suit all variety of parallel workloads • SMB over RDMA • SMB multichannel • Alternate data stream support, optimized for Apple MacOS® clients • Scale-out cluster 		

5. Test suites for stability and interoperability validation

Microsoft protocol test suites	<ul style="list-style-type: none">• Microsoft® protocol test suite evaluates whether a protocol or protocol family implementation meets certain interoperability requirements
Protocol fuzz test suite	<ul style="list-style-type: none">• Proprietary protocol fuzz testing test suite to find hidden vulnerabilities
Enterprise workload test tool	<ul style="list-style-type: none">• Enterprise storage workload performance and scalability validation tool
SMB Torture tests	<ul style="list-style-type: none">• Open source based smbtorure test suite improved by adding 500+ Tuxera's proprietary test cases
XFS tests	<ul style="list-style-type: none">• Tests for stability and regression

6. Additional tools

User account/share management and configuration utilities	<ul style="list-style-type: none">• tsmb.conf: configuration file for Fusion File Share• tsmb-passwd: utility to configure user accounts• tsmb cfg: utility to change Fusion File Share configurations in runtime• tsmb-privilege: utility to manage privilege database
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7. Licensing, integration, and maintenance

Customization and maintenance	<ul style="list-style-type: none">• Customizable to all software environments and hardware platforms• User- and kernel-space solutions available
Integration	<ul style="list-style-type: none">• Integration support to integrate Fusion File Share to customer environment and customer specific file system
Licensing	<ul style="list-style-type: none">• Proprietary, commercial

**For
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