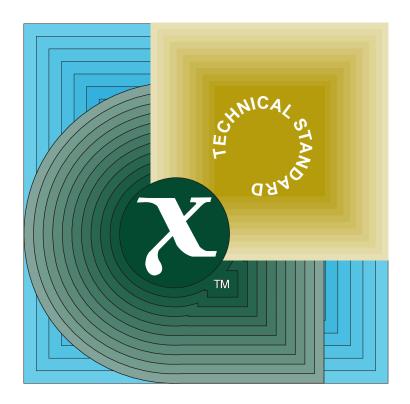
Technical Standard

Protocols for X/Open PC Interworking: SMB, Version 2







[This page intentionally left blank]



X/Open CAE Specification

Protocols for X/Open PC Interworking: SMB, Version 2

X/Open Company Ltd.



© September 1992, X/Open Company Limited

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior permission of the copyright owners.

X/Open CAE Specification

Protocols for X/Open PC Interworking: SMB, Version 2

ISBN: 1872630456

X/Open Document Number: C209

Published by X/Open Company Ltd., U.K.

Any comments relating to the material contained in this document may be submitted to X/Open at:

X/Open Company Limited Apex Plaza Forbury Road Reading Berkshire, RG1 1AX United Kingdom

or by Electronic Mail to:

XoSpecs@xopen.org



Contents

Chapter	1	Introduction	1
•	1.1	Why Republish	1
	1.2	This Document	1
	1.3	Overview of Document Layout	2
Chapter	2	SMB File-sharing Service Model	3
	2.1	SMB Protocol Principles	4
	2.2	Security Overview	5
	2.2.1	Share-level Security Mode	5
	2.2.2	User-level Security Mode	5
Chapter	3	SMB Protocol Conventions	7
	3.1	Summary of SMBs	7
	3.2	SMB Environment Definitions	10
	3.3	Share-level and User-level Security Modes	12
	3.3.1	Share-level Security Mode	12
	3.3.2	User-level Security Mode with Extended Protocols	12
	3.3.3	User-level Security with Core Protocol	13
	3.4	Connection Protocols	14
	3.5	Naming	15
	3.5.1	Resource Names	15
	3.5.2	NetBIOS Names	15
	3.5.3	Uniform Naming Convention	16
	3.5.4	Canonical Pathnames	16
	3.5.5	Long Names	16
	3.6	Wildcards	17
	3.7	File Paradigm	17
	3.7.1	Regular Files	18
	3.7.2	Open Modes	18
	3.7.3	Write Behaviour	19
	3.8	Locking Conventions	20
	3.8.1	Byte Locking	20
	3.8.2	Opportunistic Locking	20
	3.9	Chaining of Extended SMB Requests	22
	3.10	Exception and Error Handling	24
	3.10.1	Disorderly LMX Session Dissolution	24
	3.10.2	Errors and Error Handling	24
	3.11	Timeouts	25
	3.12	Downward-compatibility Support	25



DOCKET

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

