

**S N I A**  
Storage Networking Industry Association

# **SNIA CIFS Documentation Work Group**

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# Agenda

- ◆ **GENERAL SESSION TOPICS**
  - ◆ **CIFS Technical Reference Status**
  - ◆ **Benchmarking**
  - ◆ **Test Suites**
  - ◆ **CIFS C&PF**
  - ◆ **Layering Spreadsheet**
  - ◆ **An invitation ...**



# SNIA CIFS Work Group

- ◆ **Sub-group of the NAS WG**
- ◆ **Chartered December 1999**
- ◆ **Open participation**
  - SNIA members
  - Non-SNIA CIFS developers
- ◆ **Meetings**
  - Bi-weekly conference calls
  - Face-to-face meeting 3-4 times a year
  - Special meetings and conference calls



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# TWG Mission & Status

Documentation  
(V 0.99 SNIA Site)

Test Suite Library  
(Collecting)

Interoperability & Development Environment

Benchmark  
(Investigating)

Conference &  
Plug-Fest  
(2001 & 2002)



# CIFS TR Background

SNIA CIFS TR 0.99

Revised “Boiler Plate” Language, Formatting

SNIA CIFS TR 0.95

Submitted Document to General Review, New Edits

SNIA CIFS TR 0.90

Gathered Questions from Microsoft CIFS Alias and SNIA CIFS Reflector; Assigned Champions, Priority and Classifications; Corrected Omissions; Updated and Added New Content to Satisfy Issues; Edited and Reformatted the Document

Leach IETF-Draft Documents



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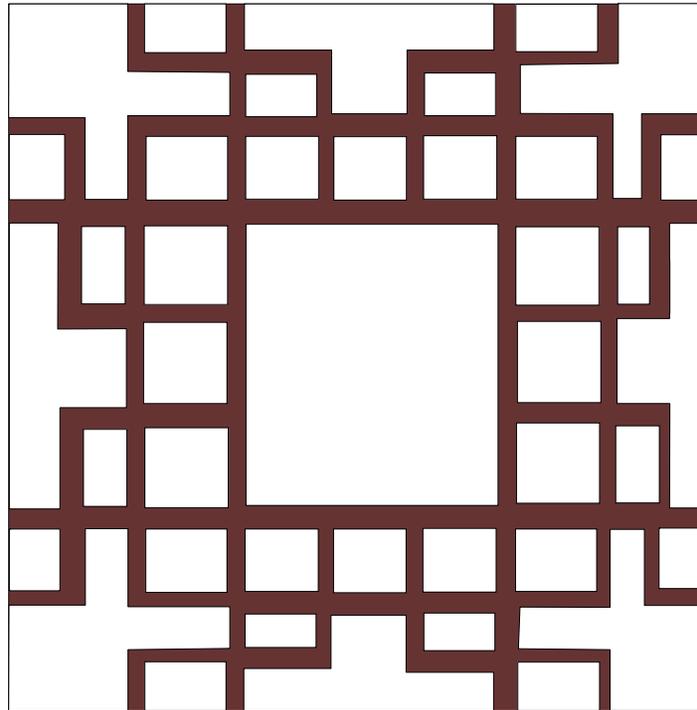
# End of Status

## ◆ Thank You





# CIFS Documentation Challenge





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# CIFS Protocol Understanding

Grade	Operation	Description
<b>A-</b>	File	Retrieve and modify files and directories, read and writes to files, file and byte range locking, client caching, operations on file system volumes
<b>B+</b>	Shared Resource	Locate shared resources and the servers they are on, how do you connect, how do you locate shared resources in the global namespace
<b>B+</b>	Authentication & Authorization	Authenticate and authorize access to resources
<b>B</b>	Printing	Print job submission, Print job control, Print Queue management
<b>C+</b>	Server Management	How you manage resources on a server -- closing an open file on a remote server, things relating to adding or deleting a share
<b>C-</b>	Topology Management	How you manage server and users in a domain -- things beyond the server -- how do structure the domains, trust relationships, server to server kinds of information, replication of servers
<b>A</b>	Infrastructure	Core components common to multiple operation areas such as the documentation relating to use of underlying transport and RPC protocols



# CIFS C&PF

- ◆ **Requested SNIA to host CIFS C&PF 2002**
  - **FORMAT: Same as the 2000 & 2001 conferences with the follow modifications**
    - ◆ **Increase conference length 1 additional day this would be 3 days of conference agenda**
    - ◆ **Allow for tutorial presentations (including SNIA material)**
  - **LOCATION: San Jose, CA**
  - **Date: TBD – mid August or September**



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# CIFS C&PF

- ◆ **CIFS C&PF Value**
  - **Widely used by CIFS developers for**
    - ◆ Design debug
    - ◆ Interoperability testing
  - **5 Previous Events**
    - ◆ (last 2 hosted by SNIA)
      - San Jose, CA
      - Redmond, WA
  - **Plug-Fest**
    - ◆ Attended by most CIFS developers
    - ◆ 2001 16 Companies
    - ◆ 2000 18 Companies
  - **Conference**
    - ◆ Attended by developers & managers
    - ◆ 2001 110 people (34 companies)
    - ◆ 2000 200 people (47 companies)



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# CIFS Problem

- ◆ **CIFS protocol**
  - CIFS/SMB protocol is widely used in the industry
  - Expertise not readily available
  - Protocol test suite for backward compatibility is not available
  - Perception of proprietary elements
  - Documentation information spread across various sources
- ◆ **CIFS development community**
  - Must interact with CIFS protocol for product competitiveness
  - Incomplete/Inaccurate documentation
  - Always chasing an existing implementation
  - Desire for a documented Standard
  - Development is expensive and unreliable



# SNIA CIFS Objective

- ◆ **Stabilize the CIFS development environment using a four prong approach:**
  - **Submit Incremental improvements to CIFS protocol**
  - **Develop a CIFS Benchmark**
  - **Collect CIFS test suites and information (to improve interoperability year round)**
  - **Collect reference implementations of CIFS client(s) and server(s)**



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# End of TR Status Presentation

◆ Thank You

