

Discussion of 00-211r2
Corrections to SCSI
EXTENDED COPY

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Outline

- Reasons for changes to EXTENDED COPY
- Process, goals and constraints
- Key provisions

Reasons for change

- Ambiguity in data results when CAT=1 for:
 - ▶ Multiple sources, multiple targets
 - ▶ StreamToDiscard and InlineToStream together
 - ▶ Data held for application client
- Ambiguity/impreciseness of error reporting
 - ▶ Lost frames; commands aborted
 - ▶ Imprecise target state
- Unnecessary limitations
 - ▶ StreamToStream in blocks
 - ▶ "Errors of intent"

Process, goals and constraints

- Behavior consensus in SNIA (Backup Working Group)
 - ▶ XC "providers" and "consumers"
- Write/edit with Ralph Weber, Greg Prestas
- Predictability, Implementability
- Compatibility with code "in place"
- Enable advanced uses

Characteristics

- Residual data ("CAT data") anonymous
 - ▶ Not allied to a target device
 - ▶ Required for implementability and predictability
- "Open box" not black box
 - ▶ Simpler expression of residual data handling
 - ▶ Copy manager not expected to understand target devices

Key Provisions

- Source and destination data "pipes" for CAT, PAD handling
- Clearer error reporting
 - ▶ Sense data preservation/RCCR retrieval
 - ▶ Distinguish target failures
- **RECEIVE COPY RESULTS** enhancements

Copy manager data pipes

