SCSI Diagnostic Command Set
Current Situation

RECEIVE DIAGNOSTIC RESULTS

SEND DIAGNOSTICS

Diagnostic Pages

* Impure SCSI
* Difficult to write Applications
* Totally Non-Standardized
SCSI Diagnostic Command Set
X3B7.1 Proposal

* Extension of SEND/REC Diagnostics
* Additional Pages Added

Advantages:
Attempt to Standardize

Disadvantages:
Pages are Clumsy
Only "Canned" Routines
Firmware Decode is huge
Not Extendable easily
SCSI Diagnostic Command Set
Western Digital Proposal

SCSI "Personalities": Standard and Diagnostic

* Utilize all SCSI Mechanisms
* Preserve Entire Logical Command Set
* Simple Command Extensions
* No mandatory removal of other methods
* Firmware implementation straightforward
* Vendor Unique is truly meaningful
* Standardization for Test Manufacturers
SCSI Diagnostic Command Set
Western Digital Proposal

Detection:
* DCS Bit in INQUIRY

Enable/Disable:
* Control Mode Page (0Ah)

Modified Commands:
* MODE SELECT, MODE SENSE

New Commands:
MANDATORY:
- Read Physical
- Write Physical
- Translate Address
- Set Cylinder Offset
- Set Data Separator
- Read ID

OPTIONAL:
- Format Track
- Format Sector
- DC Erase

VENDOR UNIQUE
- You Decide!