Write Same Translation Proposal

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Rev 0

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9.x Write Same (10) command (41h) and Write Same (16) command (93h)
9.x.1 Command Summary
The WRITE SAME (10) command requests that the device server transfer a single logical block
from the data-out buffer and write the contents of that logical block, with modifications based on
the LBDATA bit and the PBDATA bit, to the specified range of logical block addresses. Each
logical block includes user data and may include protection information, based on the
WRPROTECT field and the medium format.

Field	SAT Type	Description or Reference
OPERATION CODE	E	If the ATA device implements SCT (TR-, the SATL shall issue SCT Long Segment Access which repeatedly writes the data in the buffer to the device. If the device does not implement SCT then the SATL shall issue WRITE_DMA (C8h), WRITE_DMA_EXT (25h), or WRITE_FPDMA_QUEUED to the attached non-packet device. (see 9.12.2).
WRPROTECT	U	See SBC-2
PBDATA		specifies mode of operation, see SBC-2
LBDATA		specifies mode of operation, see SBC-2
LOGICAL BLOCK ADDRESS		32 bit start address
GROUP NUMBER	U	The SATL may implement this field as defined in SBC-2
NUMBER OF BLOCKS		A NUMBER OF BLOCKS of 0 indicates that data shall be repeatedly written from LOGICAL BLOCK ADDRESS through the last user addressable sector on the media. If the NUMBER OF BLOCKS is not zero, the SATL shall write the number of sectors specified to the device. If the NUMBER OF BLOCKS field is greater than the number of Sector Count bits in the ATA commands supported by the target device (i.e. 8 if Extended commands are not supported, or 16 if Extended commands are supported), the SATL may terminate the command with CHECK CONDITION STATUS with the sense key set to ILLEGAL REQUEST and the additional sense code set to INVALID FIELD IN CDB.
CONTROL	I	(See 6.4)