

## Firestreamer Drivers 4.0.1: Supported SCSI Commands and IOCTLs

### Updated: 2014-06-21

#### Generic commands

##### SCSIOP\_REPORT\_LUNS

Zeroed fields: Control, Reserved1...3  
AllocationLength >= 16

##### SCSIOP\_INQUIRY

Zeroed fields: CommandSupportData, Control, Reserved1...2  
Supported parameters:  
    EnableVitalProductData=0, PageCode=0  
    EnableVitalProductData=1, PageCode=VPD\_SUPPORTED\_PAGES,  
        VPD\_SERIAL\_NUMBER

##### SCSIOP\_REQUEST\_SENSE

Zeroed fields: Control, Reserved  
Supported parameters:  
    SelfTest=1, SelfTestCode=0, AllocationLength=0

##### SCSIOP\_SEND\_DIAGNOSTIC

Zeroed fields: Control, Reserved1...2

##### SCSIOP\_TEST\_UNIT\_READY

Zeroed fields: Control, Reserved1...2

##### SCSIOP\_MODE\_SENSE(6)

Zeroed fields: Control, Reserved1...2  
Not supported: MODE\_SENSE\_SAVED\_VALUES  
Pages supported by changers:  
    Page 0x00  
    MODE\_PAGE\_ELEMENT\_ADDRESS(0x1D)  
    MODE\_PAGE\_TRANSPORT\_GEOMETRY(0x1E)  
    MODE\_PAGE\_DEVICE\_CAPABILITIES(0x1F)  
    Page 0x1F/Subpage 0x41 (MODE\_EXTENDED\_DEVICE\_CAPABILITIES\_PAGE)  
Pages supported by tape drives:  
    Page 0x00  
    MODE\_PAGE\_DATA\_COMPRESS(0x0F)  
    MODE\_PAGE\_DEVICE\_CONFIG(0x10)  
    MODE\_PAGE\_MEDIUM\_PARTITION(0x11)  
    FIRESTREAMER\_CUSTOM\_MODE\_PAGE\_CODE(0x31) (reports the remaining capacity)

##### SCSIOP\_MODE\_SENSE(10)

Zeroed fields: Control, Reserved1...3, LLBAA  
See SCSIOP\_MODE\_SENSE(6)

##### SCSIOP\_MODE\_SELECT(6)

Zeroed fields: Control, Reserved1...2, LogicalUnitNumber  
Not Supported: SP  
Supported densities: 0, 0x7F, 0xFE  
Changeable pages/fields by changers: none  
Changeable pages/fields by tape drives:  
    MODE\_PAGE\_DATA\_COMPRESS(0x0F)  
        DCE  
    MODE\_PAGE\_DEVICE\_CONFIG(0x10)  
        DCAlgorithm (0x00 or 0x01)

##### SCSIOP\_MODE\_SELECT(10)

Zeroed fields: Control, Reserved1...2, LogicalUnitNumber  
See SCSIOP\_MODE\_SELECT(6)

SCSIOP\_MEDIUM\_REMOVAL  
Zeroed fields: Control, Reserved1...3, LogicalUnitNumber

SCSIOP\_RESERVE\_UNIT(6)  
SCSIOP\_RESERVE\_UNIT(10)  
SCSIOP\_RELEASE\_UNIT(6)  
SCSIOP\_RELEASE\_UNIT(10)  
NO-OP

#### Changer commands

SCSIOP\_READ\_ELEMENT\_STATUS  
Zeroed fields: Control, Reserved0...2

SCSIOP\_MOVE\_MEDIUM  
Zeroed fields: Control, Reserved1...3, Flip, LogicalUnitNumber

SCSIOP\_EXCHANGE\_MEDIUM  
Zeroed fields: Control, Reserved1,3, Flip1,2, LogicalUnitNumber

SCSIOP\_INIT\_ELEMENT\_STATUS  
Zeroed fields: Control, Reserved1...3, LogicalUnitNumber

SCSIOP\_INITIALIZE\_ELEMENT\_STATUS\_WITH\_RANGE\_STANDARD(0x37)  
Zeroed fields: Control, Reserved1...3

SCSIOP\_INITIALIZE\_ELEMENT\_STATUS\_WITH\_RANGE\_OBSOLETE(0xE7)  
Zeroed fields: Reserved1...4

#### Tape drive commands

SCSIOP\_ERASE(6)  
Zeroed fields: Immediate, Control, Reserved1...2, LogicalUnitNumber  
Supported parameters:  
Long=1

SCSIOP\_LOCATE(10)  
Zeroed fields: Immediate, Control, Reserved1,3,4, LogicalUnitNumber  
Not Supported: BT=1, DestType>2, (CP=1 && Partition!=0)

SCSIOP\_LOCATE(16)  
Zeroed fields: Immediate, Control, Reserved0...3, LogicalUnitNumber  
Not Supported: BAM=1, DestType>2, (CP=1 && Partition!=0)  
Supported parameters:  
LOCATE\_LOGICAL\_OBJECT  
LOCATE\_LOGICAL\_FILE  
LOCATE\_LOGICAL\_SET

SCSIOP\_READ\_BLOCK\_LIMITS  
Zeroed fields: Control, Reserved1

SCSIOP\_READ\_POSITION  
Zeroed fields: Control, Reserved1...2  
Supported parameters:  
READ\_POSITION\_SHORT\_BLOCK\_ID  
READ\_POSITION\_LONG

SCSIOP\_REPORT\_DENSITY\_SUPPORT  
Zeroed fields: Control, Reserved1...2

SCSIOP\_LOAD\_UNLOAD  
Zeroed fields: Immediate, Control, Reserved1...3, EOT  
Supported parameters:  
HOLD, LOAD

SCSIOP\_REWIND

Zeroed fields: Immediate, Control, Reserved1...2

SCSIOP\_SPACE(6)

Zeroed fields: Immediate, Control, Reserved

Supported parameters:

SPACE\_LOGICAL\_BLOCKS

SPACE\_FILEMARKS

SPACE\_SETMARKS

SPACE\_END\_OF\_DATA

SCSIOP\_WRITE\_FILEMARKS

Zeroed fields: Immediate, Control, Reserved, LogicalUnitNumber

Supported parameters:

WriteSetMarks=0,1

SCSIOP\_READ6

Zeroed fields: Control, Reserved

Not Supported: (Fixed=1 && SILI=1)

SCSIOP\_WRITE6

Zeroed fields: Control, Reserved1