

How to Reset the SAS IO Module in DNS-1660

Here are several ways to reset SAS IO modules



ENCLOSURE STRING OUT CMD	Action
43h No Additional Data	Both SAS IO Modules in the enclosure will reset within 5 seconds after COMMAND COMPLETE is return for the SCSI SEND DIAGNOSTIC command used to send the String Out page. This command also resets the Signal Conditioning Processor FPGA on the baseboard.
40h No Additional Data	"Reset Other" The other SAS IO Module will reset within 5 seconds after COMMAND COMPLETE is return for the SCSI SEND DIAGNOSTIC command used to send the String Out page.
45h No Additional Data	"Reset Self" The SAS IO Module that receives the String Out page will reset within 5 seconds after COMMAND COMPLETE is return for the SCSI SEND DIAGNOSTIC command used to send the String Out page.
4Ah No Additional Data	"Reset A" SAS IO Module A will reset within 5 seconds after COMMAND COMPLETE is return for the SCSI SEND DIAGNOSTIC command used to send the String Out page.
4Bh No Additional Data	"Reset B" SAS IO Module A will reset within 5 seconds after COMMAND COMPLETE is return for the SCSI SEND DIAGNOSTIC command used to send the String Out page.

Command:

```
ses.exe -c -p 0x04 -d < STRING OUT CMD> <device name>
```

Example to reset SAS IO module A:

```
PS C:\DataON\bin> .\mctoad.exe -scan
DataON SES Toolkit, scan v4.0.0
Copyright (c) DataON Storage 2013
```

Type	Description	FW	Prt	Bus	TID	LUN	Device Name
SES	LSI SAS616x	0e00	3	1	21	0	SCSI3:1,21,0
SES	DataON DNS-1660	0508	3	1	22	0	SCSI3:1,22,0
SES	DataON DNS-1660	0508	4	0	127	0	SCSI4:0,127,0
SES	LSI SAS616x	0e00	4	1	1	0	SCSI4:1,1,0

```
PS C:\DataON\bin> .\ses.exe -c -p 0x4 -d 4A "SCSI3:1,22,0"
DataON DNS-1660 0508
Sending String Out [0x4] page, with page length=1 bytes
```

Example to reset SAS IO module B:

```
PS C:\DataON\bin> .\mctoad.exe -scan
DataON SES Toolkit, scan v4.0.0
Copyright (c) DataON Storage 2013
```

Type	Description	FW	Prt	Bus	TID	LUN	Device Name
SES	LSI SAS616x	0e00	3	1	21	0	SCSI3:1,21,0
SES	DataON DNS-1660	0508	3	1	22	0	SCSI3:1,22,0
SES	DataON DNS-1660	0508	4	0	127	0	SCSI4:0,127,0
SES	LSI SAS616x	0e00	4	1	1	0	SCSI4:1,1,0

```
PS C:\DataON\bin> .\ses.exe -c -p 0x4 -d 4B "SCSI3:1,22,0"
DataON DNS-1660 0508
Sending String Out [0x4] page, with page length=1 bytes
```