ADI Data Availability

- Survey current availability for ADI desired data from SCSI command base
  - SSC
  - Vendor unique
- Propose mapping of drive polling frames to SCSI
  - ADI device parameters

	Current Availability/Source	
Drive Related Status	**SSC**	**Vendor SCSI**
Number of loads		Log Page 0Ch
Number of cleans		Log Page 0Ch
Power on hours		
Tape motion hours		
Meters of tape processed		
Metric since last clean (hours, data, loads, meters?)		
Cleaning required	Log Page 0Ch, parm 0100h	
Drive error code or error state	Log Pages 7h, 2Eh	
Recovered read errors	Log Page 3h, parm 3	
Unrecovered read errors	Log Page 3h, parm 6	
Recovered write errors	Log Page 2h, parm 3	
Unrecovered write errors	Log Page 2h, parm 6	
	Current Availability/Source	
Media Related Status	**SSC**	**Vendor SCSI**
Write protected	Mode Sense Dev specifc parm	
Data compression enabled	Mode Page 0Fh	
Cartridge position (loading, loaded, unloading, unloaded)		
Tape status (locating, writing, reading, rewinding)		
Read compression ratio	Log Page 0Ch, parms 2-3	Log Page 32h
Write compression ratio	Log Page 0Ch, parms 0-1	Log Page 32h
Recovered read errors (cartridge specific)		Log Page 30h
Unrecovered read errors (cartridge specific)		Log Page 30h
Recovered write errors (cartridge specific)		Log Page 30h
Unrecovered write errors (cartridge specific)		Log Page 30h
Media type (data, firmware, cleaning)		
Format type (media format, density, capacity)	Report Density, Mode Sense Density Code	
Number of loads		Log Page 30h
Capacity used, capacity free		Log Page 31h
Cleans remaining		
Data transfer rate		Log Page 34h
Bytes transferred (read and write)	Log Page 0Ch	Log Pages 0Ch, 32h
Where:		
SSC=SCSI Streaming Command set standard.		
Vendor SCSI=Sample Vendor Unique SCSI command parameters		
***Note:** the sample Vendor Unique SCSI parameters is not inclusive of all possible vendor*		
implementations and only represents examples of where one or more vendors chose to		
locate this information.		

Polling Frames to SCSI

- Very High Frequency frame as Log Page
- High Frequency Tape Alert as Log Page
- Control frame as Inquiry Page

Very High Freq. Log Page

Bit Byte	7	6	5	4	3	2	1	0
0	Reserved		Page Code = ?					
1	Reserved							
2	Page Length = 08h							
3								
4	Parameter Code = 0000h (single parameter)							
5								
6	DU=0	DS=1	TSD=0	ETC=0	TMC=0		LBIN=1	LP=1
7	Parameter Length = 04h							
8	Status Valid	Rsvd	Rsvd	Compress	Write Protect	Clean Requested	Clean Required	Drive Initialized
9	Access Allowed	Unload Complete	Load Complete	Media Present	Media Ejected	MAM Accessible	Media Seated	Media Threaded
10	Tape Motion Status							
11	Rsvd	Rsvd	Rsvd	Rsvd	Error	Error Changed	Interface Changed	TapeAlert Changed

High Freq. Tape Alert Log Page

Bit Byte	7	6	5	4	3	2	1	0
0	Reserved		Page Code = ?					
1	Reserved							
2	Page Length = 0Ch							
3								
4	Parameter Code = 0000h (single parameter)							
5								
6	DU=0	DS=1	TSD=0	ETC=0	TMC=0		LBIN=1	LP=1
7	Parameter Length = 08h							
8	FLAG 08	FLAG 07	FLAG 06	FLAG 05	FLAG 04	FLAG 03	FLAG 02	FLAG 01
9	FLAG 16	FLAG 15	FLAG 14	FLAG 13	FLAG 12	FLAG 11	FLAG 10	FLAG 09
10	FLAG 24	FLAG 23	FLAG 22	FLAG 21	FLAG 20	FLAG 19	FLAG 18	FLAG 17
11	FLAG 32	FLAG 31	FLAG 30	FLAG 29	FLAG 28	FLAG 27	FLAG 26	FLAG 25
12	FLAG 40	FLAG 39	FLAG 38	FLAG 37	FLAG 36	FLAG 35	FLAG 34	FLAG 33
13	FLAG 48	FLAG 47	FLAG 46	FLAG 45	FLAG 44	FLAG 43	FLAG 42	FLAG 41
14	FLAG 56	FLAG 55	FLAG 54	FLAG 53	FLAG 52	FLAG 51	FLAG 50	FLAG 49
15	FLAG 64	FLAG 63	FLAG 62	FLAG 61	FLAG 60	FLAG 59	FLAG 58	FLAG 57

Control Frame Inquiry Page

Bit / Byte	7	6	5	4	3	2	1	0
0	Peripheral Qualifier = 000b			Peripheral Device Type = 10010b				
1	Page Code = ?							
2	Reserved							
3	Page Length = 05h							
4	Rsvd	Rsvd	Rsvd	Rsvd	MC Protocol	Encaps Protocol	Basic Protocol	Legacy Protocol
5	Rsvd	Rsvd	Rsvd	Rsvd	Rsvd	Rsvd	HFTA Valid	VHF Valid
6	VHF Polling Delay							
7								
8	HFTA Polling Delay							