VERITAS Input on SSC-3 Features

Roger Cummings
(with significant help from Ray Gilson)
VERITAS Software
SSC-3 Areas

- Mandatory Commands
- Density Support
- Attributes
- Tape Alert
- Density Determination
- Misc
- FYI Info on VRTS requirements
Mandatory Commands

- All mandatory in SSC-2 plus:
  - Read Attribute
  - Write Attribute
Density Support

- Report Density Command
  - Must include all density codes supported in Inquiry
    - Including Secondary codes
  - Would like descriptor list to be ordered from lowest to highest capacity
  - Would like Assigning Organization | Density Name duple to be world-wide unique
    - Requirement to use SCSI vendor ID??
    - Same format having multiple names adds complexity
    - Assigning Organization of "UNKNOWN" is unacceptable
    - Misspelling ID is unacceptable
Attributes

• Make following mandatory (i.e. provide valid data with Read Attribute) for WORM & new devices
  – 0400h Medium Manufacturer
  – 0401h Medium Serial Number
  – 0406h Medium Manufacture Date
  – 0408h Medium Type

• Make following mandatory (i.e. allow to be written with Write Attribute):
  – 0800h thru 0808h

• New attribute on how long recorded (for inventory)
Tape Alert

• Provide either:
  – Specific “directed clear” protocol
    • Allow bits to be cleared on a bit-by-bit basis
  – “Sticky” bits that record any Tape Alert indications since media load
    • New Read Attribute type?
    • Could have a “previous load” attribute as well?

• N.B. Tape Alert can be accessed by log sense, which works even through reservations
Density Determination

• Method to read actual density code media written at, even if drive cannot read it
• Better differentiation between
  – Density codes support by currently loaded media
  – Density codes supported by the driver (with suitable media)
• Read serial number without loading media
Misc

• Are we going to redefine Mode Sense as NOT generating a Reservation Conflict?
FYI Info on VRTS requirements

• Our backup products will require support for:
  – Reserve/Release with exceptions to SPC-2 Reserve and Release behavior in 5.6.2 of SPC-3 rev 17
  – OIR bit able to be set to 1 in Device Configuration Page
    • Would like bit able to be saved as well
  – SPACE (6) by logical blocks (forwards/backwards), filemarks (forwards/backwards), and eom