

SBC-6: Aspects of Storage Initialization

During the January CAP Ad Hoc, proposed changes in the FORMAT UNIT command and its model led to a realization that a 1980's vintage model could not accommodate all the block storage devices types in 2020's SCSI.

The ideas in this summary are intended to inform the development of detailed SBC-6 modernization changes.

Summary of Activities

Activity (Sheet 1 of 2)	Ordering [†]	Examples	Device Types
Device-wide Configuration	User Data Erased	???	Any
Protection Information	User Data Erased???	FMTPIINFO and PROTECTION FIELD USAGE fields ⁺⁺	Any???
Zoning	User Data Erased???	Zoned ⁺⁺ vs no Zoned...	HDD Array
Semi-Dynamic Settings	Later	Logical Block Size (512 vs 4K bytes) <u>Logical→Physical Mapping</u>	HDD Array
LBA→PBA Mapping	Later	Logical Block Provisioning	HDD
	Normal Operation	Erase Block Handling	SSD
[†] Ordering details may vary based on what is being changed.			

Summary of Activities (Continued)

Activity <small>(Sheet 2 of 2)</small>	Ordering [†]	Examples	Device Types
Writing per-Logical Block Structure Information	<div>Later</div> <div>Normal Operation</div>	LBA in Header	HDD
TBD	<div>Earlier</div> <div>Later</div>		SSD HDD Array
[†] Ordering details may vary based on what is being changed.			

Notes

- ✓ r0 is one person's hurried effort to get the dialogue rolling. It must not be read as anything close to the final word on the topic.
- ✓ The contents of the format preset descriptor (see SBC-5) were reviewed as part of creating the r0 summary table.