HPE StoreEver Storage Sizer Tool

General Requirements

Full Backup window *(e.g. weekend contiguous hours)*	Initial (Year 0) amount of data to be backed up (TB)	Data growth (% per year)	Data compressiblity
48	**200**	**5**	**2**

Schedule/Policy

Intermediate backup type	Incremental backup window *(e.g. week-day, hours per day)*	Schedule (incremental backups between each full)	Data change between incremental backups (%)
Incremental	**8**	**5**	**5**

Separate tapes required for each incremental backup set	Number of full backup tape sets in master backup schedule	Number of copies of full backup tape sets for offline archive
No	**5**	**1**

Other Features

Spare drive (hot spare per expanded library)	Encryption
No	**No**

Libraries to Compare

Library Type A	Library Type B
MSL6480	**MSL3040**
Drive used in Library Type A	Drive used in Library Type B
LTO-9 (FC)	**LTO-8 (FC)**

General

	YEAR 0	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
Data to be backed up in a full backup (TB)	200	210	220	232	243	255
Network restricted backup time (Hours)	8	8	9	9	10	10
Drive throughput needed to meet full backup window (MB/s)	579	608	638	670	703	739
Maximum amount of data per incremental backup (TB) - no compression	10	10	11	12	12	13
Average amount of data per incremental backup (TB) - no compression	10	10	11	12	12	13
Maximum amount of data per incremental backup (TB) - compression	5	5	6	6	6	6
Average amount of data per incremental backup (TB) - compression	5	5	6	6	6	6
Total capacity required for all for all incremental backups in schedule	25	26	28	29	30	32
Drive throughput needed to meet incremental backup window (MB/s)	87	91	96	100	106	111

Library Type A MSL6480

	YEAR 0	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
Number of LTO-9 (FC) drives to meet full backup window [1]	3	3	3	3	3	3
Number of LTO-9 (FC) drives to meet incremental backup window [2]	1	1	1	1	1	1
Number of MSL6480 library base modules to meet full backup window	1	1	1	1	1	1
Number of MSL6480 library expansion modules to meet full backup window	0	0	0	0	0	0
Number of LTO-9 tapes in library needed for full backups (Online)	30	30	35	35	35	40
Number of LTO-9 tapes in library for incremental backups	2	2	2	2	2	2
Number of LTO-9 tapes for archive vault (Offline)	6	6	7	7	7	8
Number of LTO-9 tapes (total)	38	38	44	44	44	50
Encryption Licenses	0	0	0	0	0	0

Library Type B MSL3040

	YEAR 0	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
Number of LTO-8 (FC) drives to meet full backup window [1]	3	3	3	3	3	3
Number of LTO-8 (FC) drives to meet incremental backup window [2]	1	1	1	1	1	1
Number of MSL3040 library base modules to meet full backup window	1	1	1	1	1	1
Number of MSL3040 library expansion modules to meet full backup window	1	1	1	1	1	1
Number of LTO-8 tapes in library needed for full backups (Online)	45	45	50	50	55	55
Number of LTO-8 tapes in library for incremental backups	3	3	3	3	3	3
Number of LTO-8 tapes for archive vault (Offline)	9	9	10	10	11	11
Number of LTO-8 tapes (total)	57	57	63	63	69	69
Encryption Licenses	0	0	0	0	0	0

[1] This assumes that the schedule includes regular full backups within the “Full Backup Window” as well as regular intermediate backups (incremental or differential).

[2] This assumes that the full backups are not part of the regular schedule, i.e. they are effectively done off-line. The schedule only considers the regular incremental or differential backups, resulting in a need for fewer drives.