VLS9000 Deduplication Licensing

VLS9000 Deduplication licensing (LTU) is based on useable storage capacity (not number of nodes) with the basic concept being 1 LTU (T9708A) for every 10TB of useable storage capacity

= 1 LTU

+

= 1 LTU

+

= 1 LTU

+

= 0 LTU*

= 1 LTU

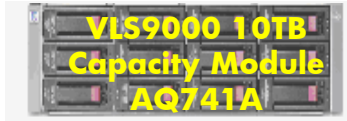
+

= 1 LTU

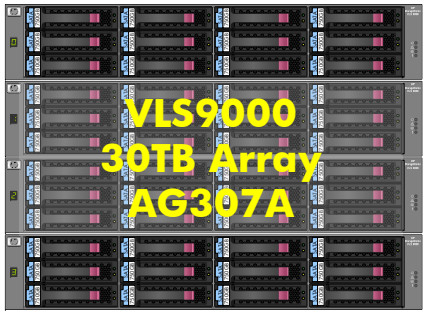
+

= 1 LTU

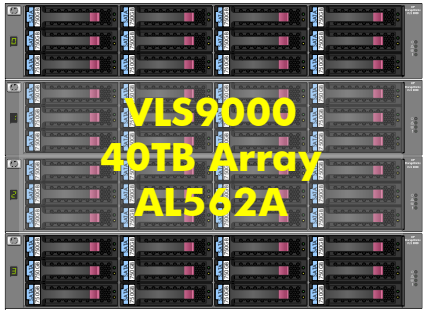
+



= 1 LTU



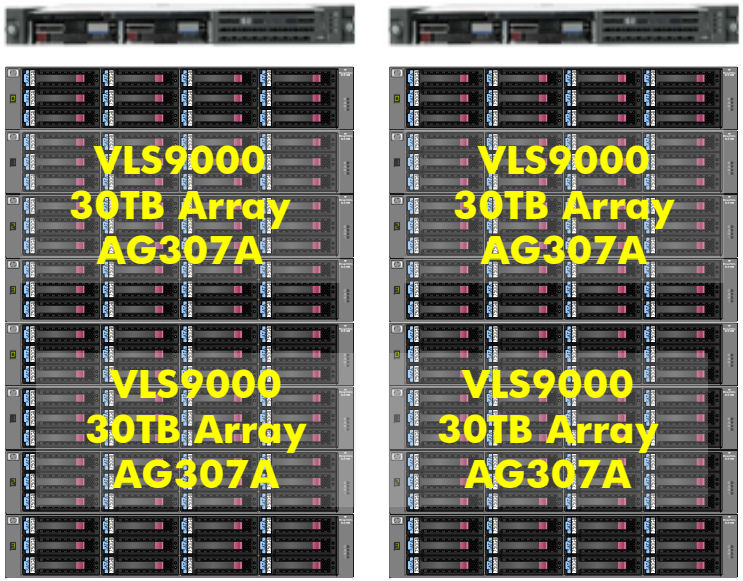
= 3 LTU



= 4 LTU

*The VLS9000 7.5TB System with 4 shelves of storage is 30TB in total and therefore only requires 3 LTUs which is reached by the time the second AQ739A is added to the base product

VLS9000 Multi-node Deduplication Licensing example



The above example with two nodes and four 30TB arrays would require qty12 T9708A Accelerated deduplication LTUs
(4 arrays x 3 LTU per array = 12 LTUs

* as of 3/09 max deduplication configuration supported is 4 nodes and 8 arrays, additional node/array support (grey portion) TBA

Table of VLS900 deduplication LTUs

T9708A Deduplication LTUs required per array	# of arrays	30TB array	40TB array
	1	3	4
	2	6	8
	3	9	12
	4	12	16
	5	15	20
	6	18	24
	7	21	28
	8	24	32
	9	27	36
	10	30	40
	11	33	44
	12	36	48
	13	39	52
	14	42	56
	15	45	60
	16	48	64

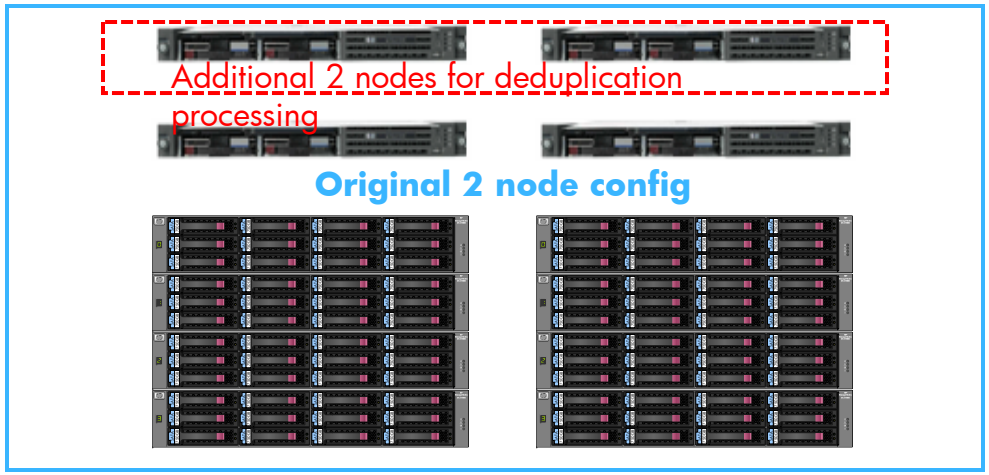
*

VLS9000 Deduplication Processing Nodes

With Accelerated deduplication on the VLS9000, customers have the ability to add additional nodes to enhance the deduplication performance of their systems. The basic premise is for every standard node one extra node can be used for deduplication processing up to the maximum of 8 nodes total*. This is the same standard AG310B SKU, however, it is dedicated to deduplication processing versus backup and has no dedicated storage array attached.

***as of 3/09 total limit of supported nodes for deduplication including deduplication processing nodes is 4.**

Example: Customer has a 2 node VLS9000 system and licenses it for deduplication. They want additional deduplication processing power and therefore can add up to 2 additional deduplication processing nodes. Note that this configuration must have a min of 2 arrays under the 2 standard VLS9000 nodes but does not require any storage arrays to be purchased for the 2 additional deduplication processing nodes.



# of nodes	Min # of arrays supported	Max # of arrays supported
1	1	2
2	1	4
3	2	6
4	2	8
5	3	10
6	3	12
7	4	14
8	4	16

*

VLS9000 Deduplication Processing Nodes

Number of Arrays	Number of Nodes*			
	1	2	3	4
1	X	Y		
2	X	X	Y	Y
3		X	X	Y
4		X	X	X
5			X	X
6			X	X
7				X
8				X

* as of 3/09 max deduplication configuration supported is 4 nodes and 8 arrays

X = node for backup and restore

Y = node for deduplication processing only