



VFM Ordering Guidelines

1. Account for all devices: Account for all storage devices that will be managed under VFM. This includes:
 - o all source devices from where the data will be moved in the event of a migration
 - o all remote storage nodes or file servers that will be backed up to the data center in a remote-branch backup or replication scenario
 - o both primary and all failover devices in a business continuity/disaster recovery scenario
 - o all DFS root servers and replicas that are part of VFM global namespace
2. Clusters/multiple nodes or blades: Each node or blade should be counted individually and needs a separate license.
3. Virtual Machines (VMware): Each virtual machine/image should be counted as a separate node and needs an individual license
4. Transfer/upgrade policy: A new license needs to be purchased every time a new device is brought under VFM management
 - o If an existing device(s) is being replaced with a new device(s), VFM license(s) cannot be transferred or upgraded. New license(s) needs to be purchased for every new device
5. Remote nodes (IBM Windows Server feature): If a storage device meets the following criteria, it should be counted as a remote node. Otherwise, it should be ordered using the tiered features structure:
 - o Device is located at a remote office/branch office
 - o Device has no more than 1 TB data
 - o Device is not a NAS system
 - o Device is not attached to a SAN (expandable capacity)

VFM Tiered Server Definition Matrix

Products	IBM N series	DAS (Windows/UNIX) or SAN Storage	NetApp Filers	EMC Celerra	HDS NAS	BlueArc NAS	
Tiers	Unit of Measure	Per Node	Per Server	Per Node	Per Node/ Blade	Per Node/ Blade	Per Node
Tier 1	N3300	0 to 1 TB	F250, F2020				
Tier 2	N3600, N3700	2 to 5 TB	F270, R200, F2050	NS20			
Tier 3	N5200	6 to 20 TB	F920, F3020, V3020	NS40, NS40G			
Tier 4	N6040	21 to 40 TB	F940, F840, F3140, V3140				
Tier 5	N5300, N5500, N6070	41 to 70 TB	F3050, F880, F960, F3040, V3040, F3170, V3170	NS80, NS80G	HNAS 2000	Titan 1100	
Tier 6	N5600, N7600, N7700	71 to 110 TB	F980, F3070, V3070, F6030, V6030, F6040, V6040		HNAS 2100, 2200	Titan 2100, 2200, 2500	
Tier 7	N7800, N7900	111 to 150 TB	F6070, V6070, F6080, V6080		HNAS 3100	Titan 3100	



IBM N series models to VFM tiers cross-reference table

N series Model	MTM	VFM Tier	Tiered Quantity Required
N3300 Single node	2859-A10	Tier 1	1
N3300 Cluster node	2859-A20	Tier 1	2
N3600 Single node	2862-A10	Tier 2	1
N3600 Cluster node	2862-A20	Tier 2	2
N3700 Single node	2863-A10	Tier 2	1
N3700 Cluster node	2863-A20	Tier 2	2
N5200 Single node	2864-A10	Tier 3	1
N5200 Cluster node	2864-A20	Tier 3	2
N5200 Single node	2864-G10	Tier 3	1
N5200 Cluster node	2864-G20	Tier 3	2
N6040 Single node	2858-A10	Tier 4	1
N6040 Cluster node	2858-A20	Tier 4	2
N5500 Single node	2865-A10	Tier 5	1
N5500 Cluster node	2865-A20	Tier 5	2
N5500 Single node	2865-G10	Tier 5	1
N5500 Cluster node	2865-G20	Tier 5	2
N5300 Single Node	2869-A10	Tier 5	1
N5300 Cluster Node	2869-A20	Tier 5	2
N5300 Single Node	2869-G10	Tier 5	1
N5300 Cluster Node	2869-G20	Tier 5	2
N6070 Single node	2858-A11	Tier 5	1
N6070 Cluster node	2858-A21	Tier 5	2
N5600 Single Node	2868-A10	Tier 6	1
N5600 Cluster Node	2868-A20	Tier 6	2
N5600 Single Node	2868-G10	Tier 6	1
N5600 Cluster Node	2868-G20	Tier 6	2
N7600 Single node	2866-A10	Tier 6	1
N7600 Cluster node	2866-A20	Tier 6	2
N7600 Single node	2866-G10	Tier 6	1
N7600 Cluster node	2866-G20	Tier 6	2
N7800 Single node	2867-A10	Tier 7	1
N7800 Cluster node	2867-A20	Tier 7	2
N7800 Single node	2867-G10	Tier 7	1
N7800 Cluster node	2867-G20	Tier 7	2
N7700 Single node	2866-A11	Tier 6	1
N7700 Cluster node	2866-A21	Tier 6	2
N7700 Single node	2866-G11	Tier 6	1
N7700 Cluster node	2866-G21	Tier 6	2
N7900 Single node	2867-A11	Tier 7	1
N7900 Cluster node	2867-A21	Tier 7	2
N7900 Single node	2867-G11	Tier 7	1
N7900 Cluster node	2867-G21	Tier 7	2