

Number of nodes supported in SGeRAC for SLVM, ASM, CVM and CFS Matrix (September 4, 2009)

HP-UX Version	SGeRAC /SG OPS Version	Maximum number of nodes supported for SLVM ¹	Maximum number of nodes supported for ASM	Maximum number of nodes supported for CVM ² & CFS ³
11i v3	SGeRAC A.11.19	16	16 (ASM over SLVM or ASM with raw disks/LUs)	<ul style="list-style-type: none"> - CVM 5.0 - up to 16 nodes. This is supported with the SGeRAC A.11.19 product, or the HP Serviceguard Cluster File System for RAC A.02.01 bundle. - CFS 5.0 - up to 16 nodes, requires Oracle Disk Manager (ODM). This is only supported with the HP Serviceguard Cluster File System for RAC A.02.01 bundle.
	SGeRAC A.11.18	16	16 (ASM over SLVM or ASM with raw disks/LUs)	<ul style="list-style-type: none"> - CVM 5.0 - up to 8 nodes. This is supported with the SGeRAC A.11.18 product, or the HP Serviceguard Cluster File System for RAC A.02.00 bundle. - CFS 5.0 - up to 8 nodes, requires Oracle Disk Manager (ODM). This is only supported with the HP Serviceguard Cluster File System for RAC A.02.00 bundle.
	SGeRAC A.11.17.01	16	16 (ASM over SLVM or ASM with raw disks/LUs)	No support for CVM or CFS
11i v2	SGeRAC A.11.19	16	16 (ASM over SLVM)	<ul style="list-style-type: none"> - CVM 5.0 - up to 16 nodes. This is supported with the SGeRAC A.11.19 product, or the HP Serviceguard Cluster File System for RAC A.02.01 bundle. - CFS 5.0 - up to 16 nodes, requires Oracle Disk Manager (ODM). This is only

- **NOTES:**

1. If MirrorDisk/UX mirroring is used for an SLVM volume group, the maximum number of nodes supported is 2 nodes on HP-UX 11i v2. A maximum of 4 nodes is supported on HP-UX 11i v3, requires SLVM v2 released with HP-UX AR0809 or later.
2. The values stated for the maximum number of nodes with CVM require a full CVM license. The Base VxVM 3.5 license supports CVM disk groups for up to 2 node clusters with Serviceguard and SGeRAC. Base VxVM 4.1 does not include support for CVM disk groups.
3. CFS support begins with Serviceguard and SGeRAC A.11.17. CFS 4.1 requires VxVM and CVM 4.1.

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				supported with the HP Serviceguard Cluster File System for RAC A.02.01 bundle.
	SGeRAC A.11.18	16	16 (ASM over SLVM)	<ul style="list-style-type: none"> - CVM 3.5 - up to 8 nodes (more than 4 nodes requires a CVM 3.5 patch, PHCO_29605 or later). - CVM 4.1 - up to 8 nodes. Support for more than 4 nodes requires the patches PHKL_34741 (or later) and PHNE_34664 (or later). This is supported with the SGeRAC A.11.18 product, or the HP Serviceguard Cluster File System for RAC A.01.01 bundle. - CFS 4.1 - up to 8 nodes, requires Oracle Disk Manager (ODM). Support for more than 4 nodes requires the patches PHKL_34741 (or later) and PHNE_34664 (or later). This is only supported with the HP Serviceguard Cluster File System for RAC A.01.01 bundle. - CVM 5.0 - up to 8 nodes. This is supported with the SGeRAC A.11.18 product, or the HP Serviceguard Cluster File System for RAC A.02.00 bundle. - CFS 5.0 - up to 8 nodes, requires Oracle Disk Manager (ODM). This is only supported with the HP Serviceguard Cluster File System for RAC A.02.00 bundle.
	SGeRAC A.11.17	16	16 (ASM over SLVM)	<ul style="list-style-type: none"> - CVM 3.5 - up to 8 nodes (more than 4 nodes requires a CVM 3.5 patch, PHCO_29605 or later).

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2. The values stated for the maximum number of nodes with CVM require a full CVM license. The Base VxVM 3.5 license supports CVM disk groups for up to 2 node clusters with Serviceguard and SGeRAC. Base VxVM 4.1 does not include support for CVM disk groups.
3. CFS support begins with Serviceguard and SGeRAC A.11.17. CFS 4.1 requires VxVM and CVM 4.1.

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				<ul style="list-style-type: none"> - CVM 4.1 - up to 8 nodes. Support for more than 4 nodes requires the patches PHKL_34741 (or later) and PHNE_34664 (or later). This is supported with the SGeRAC A.11.17 product, or the HP Serviceguard Cluster File System for RAC A.01.00 bundle. - CFS 4.1 - up to 8 nodes, requires Oracle Disk Manager (ODM). Support for more than 4 nodes requires the patches PHKL_34741 (or later) and PHNE_34664 (or later). This is only supported with the HP Serviceguard Cluster File System for RAC A.01.00 or A.01.01 bundles.
	SGeRAC A.11.16	16	NA	8 - (more than 4 nodes requires CVM 3.5 with patch, PHCO_29605 or later)
11i v1	SGeRAC A.11.16	16 - (more than 8 nodes requires SLVM patch, PHKL_30622 or later)	NA	8 – (more than 4 nodes requires CVM 3.5 with patches, PHCO_29980 and PHKL_29981 or later)

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2. The values stated for the maximum number of nodes with CVM require a full CVM license. The Base VxVM 3.5 license supports CVM disk groups for up to 2 node clusters with Serviceguard and SGeRAC. Base VxVM 4.1 does not include support for CVM disk groups.
3. CFS support begins with Serviceguard and SGeRAC A.11.17. CFS 4.1 requires VxVM and CVM 4.1.