Liqid Composable vSAN HCI Appliance

Liqid Powered platform delivers an all-solid-state vSAN disaggregated and composable appliance that leverages NVMe SSD and Intel® Optane™ for hyperconverged and virtualized environments.

*Improve data center agility, management and utilization with increased disk groups, storage capacity, and machine performance for VMware vSAN and other virtualized environments.*

To address the challenges associated with the evolving virtualized data center, Liqid delivers Composable Disaggregated Infrastructure (CDI) solutions to enable IT users to significantly increase data agility, capacity and bandwidth in virtualized environments for which lighting fast, adaptive data manipulation is necessary.

Through the power of storage disaggregation, the Liqid Powered vSAN solution bundle delivers up to 78TB of NVMe storage and 3TB of Intel® Optane™ in a Dell R640 compute node. This solution provides 40x NVMe devices per 1RU node to enable the highest number of disk groups, massive Optane memory capacity, and ultra-fast VM performance for hyperconverged environments.

By leveraging the Liqid Composable vSAN HCI appliance in conjunction with Liqid Grid Fabric technology, users can also leverage pools of disaggregated GPU and other physical resources to create balanced servers that can adapt on-demand based on user activity. Liqid composable disaggregated infrastructure is optimized for VMware’s vSAN and hyperconvergence.

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<th>R640 vSAN Storage Platform</th>
<th>75% Smaller Foot Print</th>
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<td>40x Drives per 1RU Chassis</td>
<td>2-4x Higher Performance</td>
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<td>4x Disk Groups Per Node</td>
<td>High-density Storage Solution</td>
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<td>3TB of Optane Cache Drives</td>
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<td>78TB of NVMe Data Drives</td>
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**Liqid Composable vSAN**
**LQD8350v Appliance**

**Software**
VMware ESXi Rev. 6.7.0

**Platform**
Dell R640 with Dual Intel Xeon CPU

**CPU & Memory**
Up to 3.6 GHz CPUs and 3TB of RAM

**Architecture**
vSAN with Internally Disaggregated NVMe

**Data Capacity**
Up to 78TB Raw (NVMe SSD)

**Cache Capacity**
Up to 3TB Raw (Intel® Optane™)

**Disk Groups**
4x Per Node (7x Data Disk+ 1x Cache Disk)

**Data Drives**
40x NVMe up to 1.96TB Per Drive

**Cache Drives**
8x Intel® Optane™ up to 375 GB per Drive

**Cache Latency**
10µs (Intel® Optane™)

**Form Factor**
1RU per Node with 48x Internal NVMe SSD

**GPU Expansion**
Up to 8x GPU over PCIe Expansion Fabric

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