DATASHEET

VMware EVO:RAIL
A radically simple building block for your software-defined data center

Introduction
What is EVO:RAIL?
EVO:RAIL combines VMware compute, network, storage, and management resources into a hyper-converged infrastructure appliance to create a simple, easy-to-manage, all-in-one solution for all your virtualized workloads, including tier-1 production and mission-critical applications. Offered by selected partners, EVO:RAIL is backed by a single point of contact for software and hardware support.

Radical Simple
Meet accelerated business demands by simplifying infrastructure design with predictable sizing and scaling, and by streamlining purchase and deployment. With EVO:RAIL, you go from initial power-on to VM deployment in minutes, and easily scale to 16 appliances. Manage your VMs, appliance, and cluster from a single pane of glass.

Resilient and Secure
Designed with four independent hosts, distributed Virtual SAN™ datastore, built-in VM security policies, and leveraging best in class VMware availability capabilities ensures zero application downtime during planned maintenance or during disk, network, or host failure.

Trusted and Proven
Powered by VMware’s industry leading infrastructure virtualization technology, including VMware vSphere®, vCenter Server™ and VMware Virtual SAN™, EVO:RAIL delivers the first hyper-converged infrastructure appliance designed, powered, and validated by VMware.

The EVO:RAIL Engine
Management that Adapts to You
EVO:RAIL orchestrates deployment, configuration, and management in a predictable manner to maximize cost efficiency. Deployment, configuration, and management tasks are streamlined, allowing users to configure and deploy VMs in minutes, not hours or days, and add new appliances to a cluster in a few clicks.

The EVO:RAIL management interface is optimized for both new and for experienced administrators. Administrators with minimal IT knowledge or in environments with limited on-site IT access can easily deploy and managed their virtualized IT environment.

The EVO:RAIL engine simplifies virtual machine provisioning by utilizing predefined sizing and security policies that are enacted with a single click. Once provisioned, VMs can be monitored at a glance from the dashboard. You can monitor compute and storage resources, including CPU, storage, and VM usage and health, by individual nodes, by appliance, as well as by entire clusters.

AT A GLANCE
VMware EVO:RAIL™ is a hyper-converged infrastructure appliance designed to help you meet today’s data center challenges head on by optimizing your entire IT infrastructure lifecycle. From planning, design and, procurement to deployment and management, EVO:RAIL is a building block for your software-defined data center that radically simplifies your data center operations.

KEY BENEFITS
• Radically simplify all your data center operations
• Increase your speed of business
• Ensure top performance for all your virtualized workloads with best-in-class VMware software and flexible hardware configurations
• Lower your CapEx and OpEx cost
• Reduce your risk with high-resiliency hardware, built-in security policies and VMware software

EVO:RAIL Architecture: Flexible, Scalable and Resilient

EVO:RAIL Appliance
Nodes per Appliance 4
Max VM’s per Appliance 800*

EVO:RAIL Cluster
Max Appliances per cluster 16
Max VM’s per Cluster 12,800*

EVO:RAIL Hardware
Hardware form factor 2U
Configurations Flexible hardware configurations with up to 100 options

* Depending on your hardware configuration and VM profile
Use Cases
EVO:RAIL supports any applications that run on vSphere or Virtual SAN. Each EVO:RAIL appliance is designed to run up to 800 virtual machines scaling-out up to 12,800* virtual machines in a 16 appliance cluster.

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<tr>
<th>EVO:RAIL appliance</th>
<th>.scaling-out up to 12,800* virtual machines</th>
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**Infrastructure that Grows with You**
EVO:RAIL allows you to radically simplify and automate IT infrastructure scale-out. Increasing compute, networking, or storage resources is as easy as powering up a new appliance and adding it to an EVO:RAIL cluster. The EVO:RAIL engine automatically discovers the new appliance and shares configuration information with other appliances in the cluster effortlessly with only a password and a few mouse clicks.

EVO:RAIL scales up to 16 appliances per cluster, for a total of 64 ESXi™ hosts and one Virtual SAN datastore, managed by a single vCenter Server and EVO:RAIL engine instance.

**Preloaded Management Software**
EVO:RAIL software is preloaded by your selected EVO:RAIL partner and is comprised of:
- EVO:RAIL deployment, configuration, and management engine
- vSphere Enterprise Plus, including ESXi for virtual compute management
- VMware Virtual SAN for virtual storage
- vCenter Server
- VMware vRealize™ Log Insight™

As part of the vSphere Loyalty Program, customers can leverage existing vSphere Enterprise Plus licenses.

**Resilient Design**
The EVO:RAIL appliance is designed with fault-tolerance and high availability in mind with four independent nodes, each consisting of dedicated compute, network, and storage resources:
- Four ESXi hosts in a single appliance enables resiliency for unplanned hardware failures and planned maintenance
- Two fully redundant power supplies
- Two redundant 10Gbe NIC ports
- Enterprise-grade ESXi boot device, HDDs, and SSDs
- Fault-tolerant Virtual SAN datastore

* Depending on your hardware configuration and VM profile

**Hardware and Software Specification (per Appliance)**

<table>
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<tr>
<th>Software</th>
<th>Processor</th>
<th>Memory</th>
<th>Storage</th>
<th>Network</th>
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<tbody>
<tr>
<td>EVO:RAIL, vSphere Enterprise Plus, Virtual SAN, vCenter Server, vRealize Log Insight</td>
<td>8 x Intel ES Processors, Ivy Bridge or Haswell (48, 64, 80, 96, or 144 cores)</td>
<td>512, 768, 1024, 1536, or 2048 GB</td>
<td>16 or 27.2 TB Hybrid Storage (HDD/SSD)</td>
<td>8 x 10 Gbe NIC port (copper or fiber)</td>
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**Learn More**
- Call 877-4-VMWARE (outside North America call +1-650-427-5000)
- Visit [http://www.vmware.com/products/evorail](http://www.vmware.com/products/evorail) and try a free demo
- Follow us @vmwevorail