

# vOperations Suite Integration Capabilities

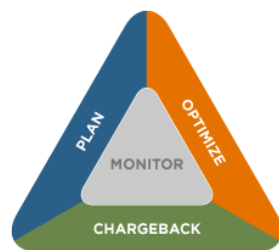
Performance and capacity management data, which is generated by the Capacity Analytics Engine™ which powers the vOperations Suite™ (also referred to as vOPS™) can be critical to execute multiple data center operations. This data is particularly important during VM provisioning, deployment, maintenance and retirement. Applications, for example, cannot be provisioned without sufficient capacity. When VM performance issues occur, ticketing systems require up-to-date capacity root cause analysis and remediation steps to resolve problems. Financial systems need billing data to generate invoices for customers. These are a small sample of use cases where capacity intelligence is required to complete a data center workflow.

VKernel offers several capacity management data integration capabilities into external systems to both incorporate VKernel data into other systems, and also, to allow for VKernel tasks to be triggered by third-party systems.

## VKernel Integration Through the vOPS API

VKernel's vOPS API provides REST-based programmatic access to all information within vOPS. This data can be easily integrated into

external system with web services access. Additionally, vOperations Suite actions, such as creating and populating Business Views with VM groupings can be initiated via API by a third-party application. External systems commonly requiring performance or capacity management data include:



- Billing systems
- Reporting frameworks
- Systems management consoles
- Application performance management (APM) systems
- Issue ticketing applications
- Self-service portals
- Orchestration engines

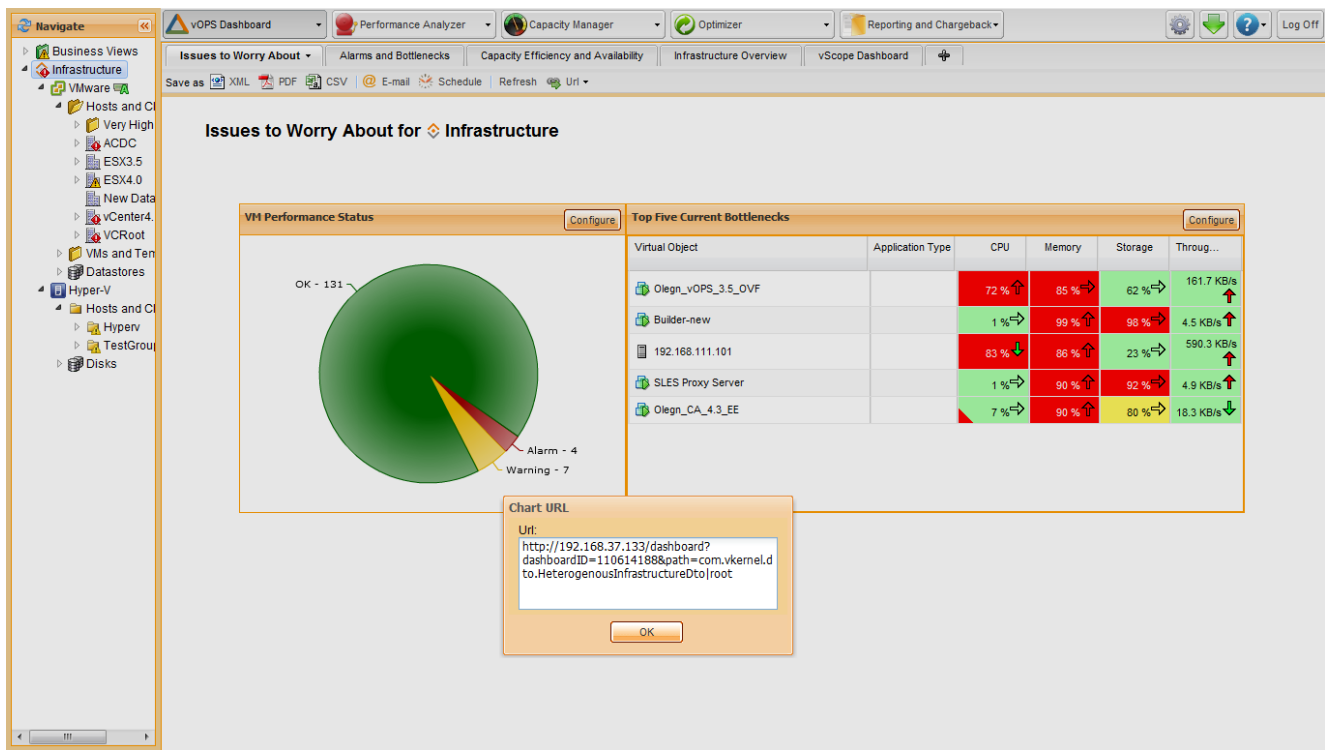
## VKernel's Capacity.LINK™ Program Provides vOPS API Development Support

The VKernel Capacity.LINK program is available for customers and VKernel partners that wish to undertake capacity management integration initiatives using the vOPS API. Documentation and support is offered as part of the program.

## Reporting Integration and Distribution

VKernel features numerous other methods to extract information from the vOperations Suite for reporting purposes:

- **Custom URL Generation** – Custom dashboard and summary reports for customers, management or other stakeholders can be embedded into web portals or other systems through custom URLs generated in vOPS Reporting & Chargeback and the vOPS Dashboard
- **Email** – All screens and reports in vOPS can be sent via email on an ad hoc or scheduled basis in XML, PDF or CSV
- **SNMP** - All screens and reports in vOPS can be sent as via SNMP on an ad hoc or scheduled basis in XML, PDF or CSV
- **Download** - All screens and reports in vOPS can be downloaded in XML, PDF or CSV



## Alert Integration

VKernel features numerous methods to send alerts from the vOperations Suite to external systems:

- **Microsoft Systems Center Integration** – vOPS™ Capacity Manager and vOPS™ Performance Analyzer can send PROtip alerts to SCVMM.
- **RSS Feeds** - Alerts can be displayed in RSS feed
- **SNMP** – Alerts can be sent via SNMP
- **Email** – Alerts can be sent via email

## Fast to Download and Install, Easy to Trial

vOPS is available for download and a 30 day free trial at <http://www.vkernel.com>. vOPS can be installed as a VMware vSphere, Red Hat Enterprise Virtualization (RHEV) or Microsoft Hyper-V VM and the entire process typically takes under an hour. All of the integration capabilities discussed in this datasheet are available within the installed virtual appliance.

## System Requirements for vOPS

vOPS (which includes listed integration) requires:

- 4 vCPUs
- 8 GB of memory
- 64 GB of storage space
- VMware ESX 3.0 or vCenter 2.5 or higher (if installed as a VMDK)
- Microsoft Systems Center Operations Manager 2007 R2 (if installed as a VHD)
- Microsoft Systems Center Virtual Machine Manager 2008 R2 U1 (if installed as a VHD)

## Support

For technical support please visit <http://www.vkernel.com/support>, email us at [support@vkernel.com](mailto:support@vkernel.com) or call +1 (978) 289 6300.

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