

EMC VIPR AND EMC VIPR SRM

Automation and Insight for Multi-Vendor Storage

ESSENTIALS

ViPR Software-Defined Storage

- Lightweight, software-only solution
- Automate storage and deliver policy-based classes of service to users through a self-service catalog
- Integrate with industry-standard APIs (Amazon S3, OpenStack Swift, Atmos)
- Supports EMC, third-party and commodity arrays

ViPR SRM

- View relationships and performance trends across the data path
- Track and analyze storage consumption
- Optimize storage resources and automate charge-back reports

ViPR and ViPR SRM: Better Together

- Automation and insight solution for managing complex storage environments
- Delivers end-to-end views of physical and virtual resources in a single pane of glass
- Automates and simplifies repetitive, manual tasks
- Tightly integrated for seamless navigation

Today's storage infrastructures consist of multiple sites using a patchwork of storage platforms from different vendors to deliver a wide variety of storage services. Each storage platform is chosen based on its ability to handle specific workloads, each with its' own unique set of APIs, management and monitoring tools. With this diversity, comes the challenge of managing these storage silos efficiently. As the amount of data grows, it takes an increasingly large number of specialized IT administrators executing repetitive, serial and manual tasks to deliver static, slow-to-respond storage services. This dynamic is driving end-user investment in shadow IT. Delivering storage services as usual is not a sustainable option for today's always on, dynamic businesses.

Together EMC ViPR and EMC ViPR SRM simplify the management of multi-vendor storage by automating provisioning and reducing management time while extending visibility and insight into storage infrastructures across traditional and software-defined environments.

EMC VIPR: SIMPLE. EXTENSIBLE. OPEN.

EMC® ViPR™ is truly software-defined storage, a lightweight, software-only solution that transforms existing infrastructure into a simple, extensible, and open platform. ViPR delivers fully automated storage and policy-driven storage services on-demand allowing organizations to optimize their current infrastructures while providing a path to the cloud.

SIMPLE

ViPR abstracts and pools multi-vendor storage arrays into a single virtual storage pool that can then be managed by policy and delivered as an on-demand self-service catalog. ViPR automates repetitive storage provisioning tasks and provides self-service access to storage. ViPR makes it as easy to consume enterprise storage as it is to consume a public cloud storage service. Independent lab testing shows that ViPR can reduce provisioning time up to 85%* or from weeks or days to mere minutes – freeing administrators from mundane, manual tasks.

ViPR also includes Object, HDFS and Block services, which allow organizations to shift away from array-specific application dependencies, to services that span arrays. The ViPR Object Data Service, for example, enables applications to directly access objects as files, without having to rework or rewrite existing applications.

*Principled Technologies, April, 2014

EXTENSIBLE

ViPR extends beyond EMC to plug into third-party and commodity storage as well as cloud stacks, so customers have the freedom to make the choice that's right for their business.

ViPR integrates with:

- o EMC Storage Platforms: ECS Appliance, Isilon, VMAX, VNX, VPLEX, XtremIO
- o Third-party Storage Platforms: NetApp, HDS, IBM, HP, Oracle, Solidfire
- o Commodity Platforms: HP SL4540
- o Cloud Stacks: OpenStack, VMware, and Microsoft

OPEN

ViPR is accessible via an open ViPR REST API. It seamlessly integrates with VMware, OpenStack Swift and Microsoft Hyper-V, making it easy to incorporate ViPR in existing data center operations or build a Software-Defined Data Center.

EMC VIPR SRM: VIRTUALIZE. ANALYZE. OPTIMIZE.

ViPR SRM makes it easier than ever to manage the complexity of growing, heavily virtualized storage environments. It enables you to visualize application to storage dependencies and analyze configurations and capacity growth. While ViPR abstracts and pools arrays into virtual storage pools, ViPR SRM's integration with ViPR helps you understand the physical to logical relationships. Armed with this information you can optimize your traditional and ViPR Software-defined Storage environment to improve your return on investment.

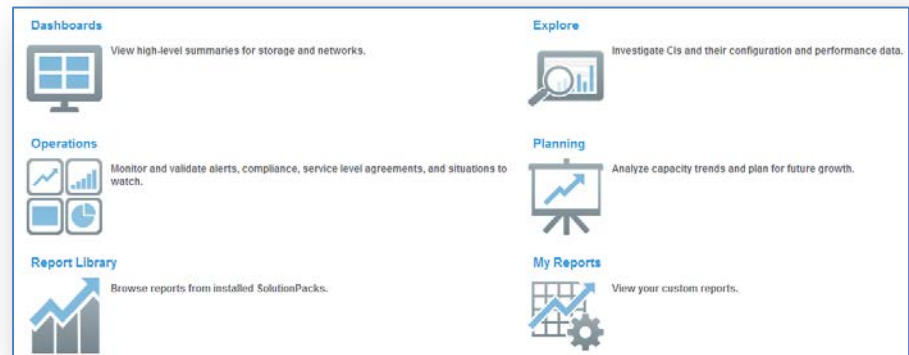


Figure 1: ViPR SRM has an intuitive user interface for easy navigation.

VISUALIZE

With ViPR SRM, you can obtain detailed relationship and topology views from virtual or physical hosts down to the logical unit number (LUN) to identify application to storage dependencies. You can also view performance trends across the data path to help you understand the impact that storage has on your applications.

ANALYZE

ViPR SRM allows you to quickly spot service-level agreement (SLA) problems through dashboards and reports that meet the needs of a wide range of users and roles. You can track storage consumption across your data centers with built-in views that help you understand who's using capacity, how much they're using and when more will be required.

OPTIMIZE

ViPR SRM helps you optimize capacity and improve productivity to get the most out of your storage investments. It shows historical workloads and response times to help

you determine whether you've selected the right storage tier. It maps ViPR virtual pools to service levels, tracks capacity use by service level or EMC Fully Automated Storage Tiering (FAST) policy, enabling you to create show-back or charge-back reports to align application requirements with costs. Detailed capacity reporting improves planning to enhance purchasing processes and reduce costs. Armed with this information, you can optimize your storage environment

BETTER TOGETHER

Together, ViPR and ViPR SRM enable you to do more than manage data growth across your multi-vendor storage environment. They provide you a path to the cloud with control, choice and insight. With ViPR you can deliver agile, innovative storage services to stakeholders, while providing visibility and control of your traditional and software-defined storage with ViPR SRM. Harness explosive data growth, while optimizing your IT resources with ViPR and ViPR SRM.



CONTACT US

To learn more about how EMC products, services, and solutions can help solve your business and IT challenges, contact your local representative or authorized reseller—or visit us at www.EMC.com.

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