

SVPC Current Work

Virtualization Management 2 is in development in the work group. This extends the resource allocation model to include aggregating resources from multiple resource pools. Improved resource allocation descriptors better define the underlying resources that support the pool and the virtual resources allocated from that pool to support the virtual computer systems.

Virtualization Management 2 uses a scalable recursive resource model to allow collections of virtual computer systems (aka Virtual Machine) to be managed and thus supports management of a data center or multiple data centers.

Virtual Networking is part of this effort and is currently working on:

- Definition of CIM-based data
- OVF extensions for Network and Storage Networking deployment
- A Port Profile XML Schema for describing VSI Network attributes
- Extensions for Edge Virtual Bridging
- Extensions for Firewalls and Load Balancers
- Extensions for PCI SRIOV technology

OVF 2 is in development in the work group. This extends the attributes to deal with:

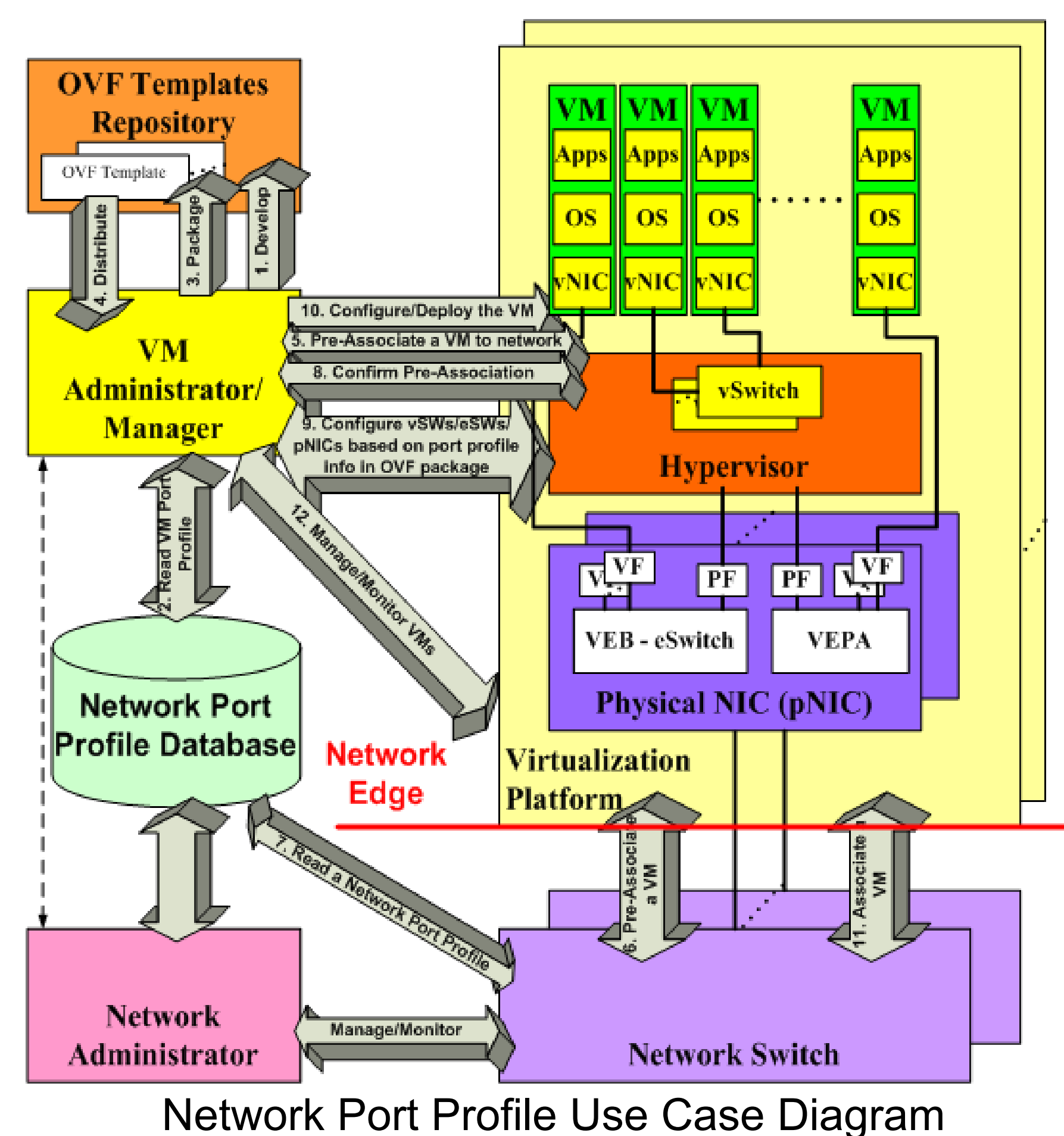
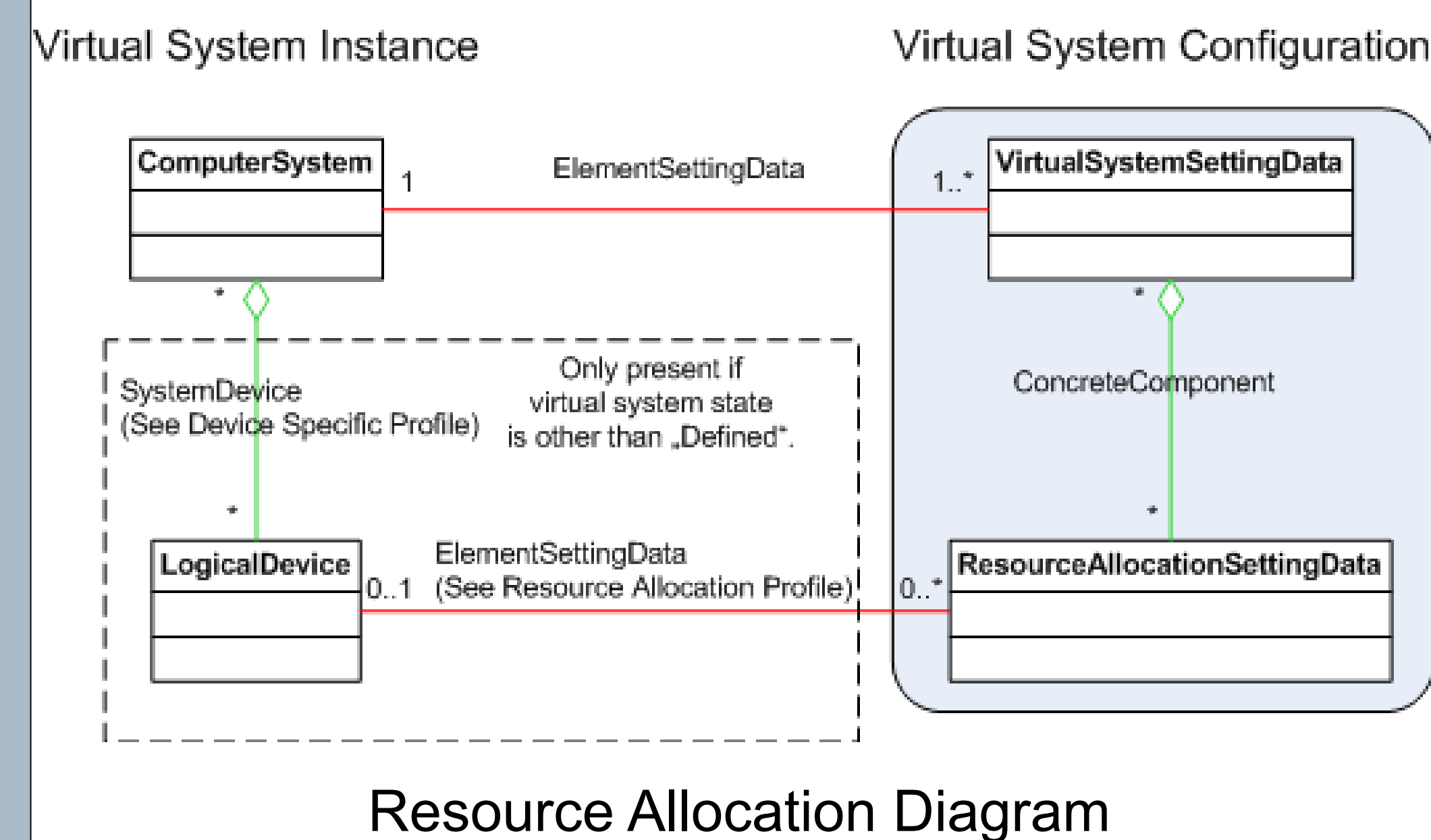
- Device Boot order to allow adaptation of the virtual computer system on deployment
- Encryption of sections and disks within a package
- Display of EULA text with internationalization
- Virtual System Group for scaling virtual computer systems
- Passing data and files to the guest
- Shared disks
- Placement of virtual computer systems relative to each other
- Support for the Network Port Profile

Virtualization Management 2 – Development

DSP#	Title
DSP1041	Resource Allocation Profile
DSP1042	System Virtualization Profile
DSP8026	System Virtualization Message Registry
DSP1044	System Virtualization Processor Resource Profile
DSP1045	System Virtualization Memory Resource Profile
DSP1050	System Virtualization Ethernet Port Resource Profile
DSP1081	System Virtualization Migration Profile
DSP1047	System Virtualization Storage Resource Profile
DSP1097	Virtual System Ethernet Switch Profile
DSP2013	System Virtualization White Paper
DSP8048	System Virtualization Metrics Registry
DSP8049	Network Port Profile XML Schema
DSP2025	Virtual Networking White Paper

Virtualization Management Technology Overview

Virtualization Management standards provide a consistent way to discover, monitor, and administer virtualized computer systems. In conjunction with the Server Management standards it allows an IT organization a cost effective means to deal with a multi-vendor data center (both the physical and virtual systems).

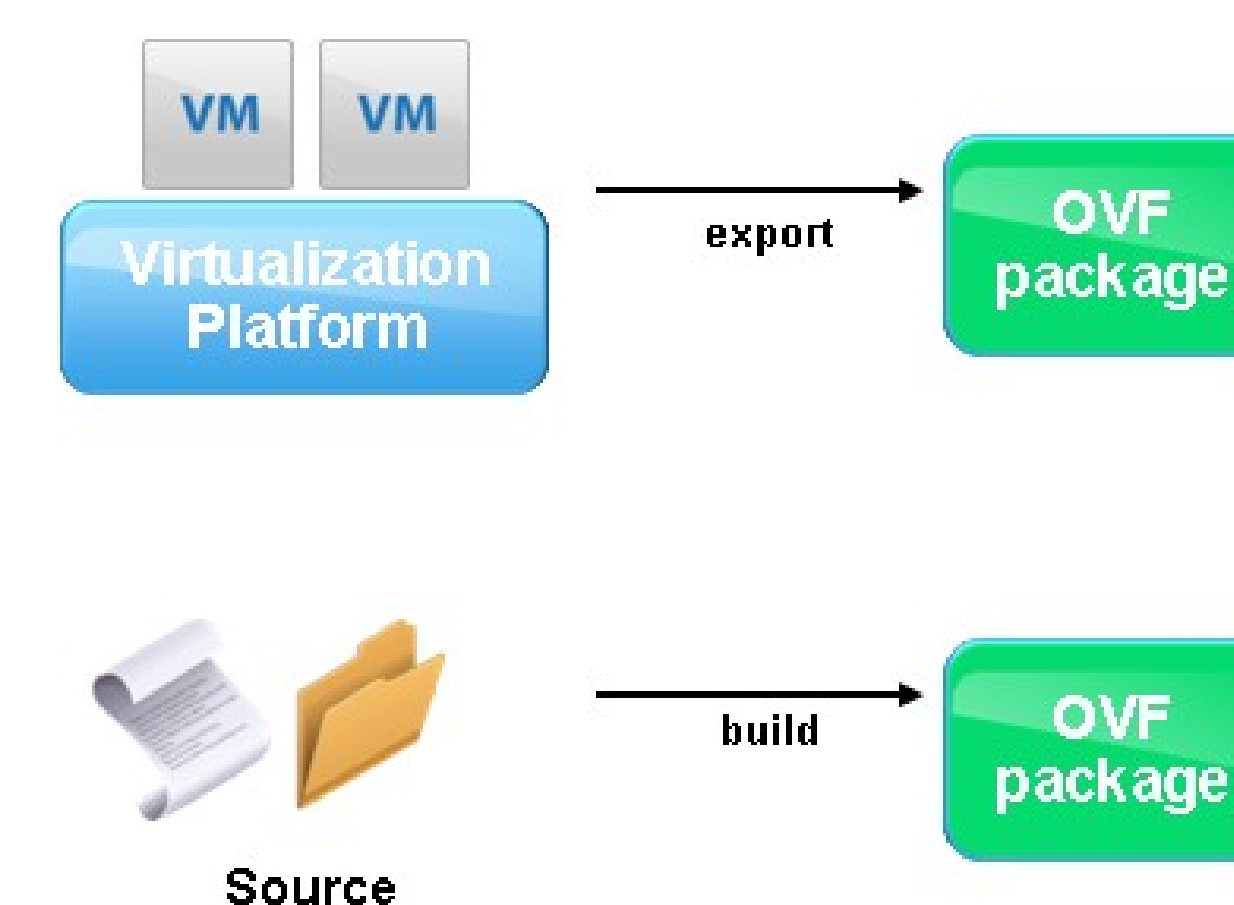


Virtualization Management 1 - Published

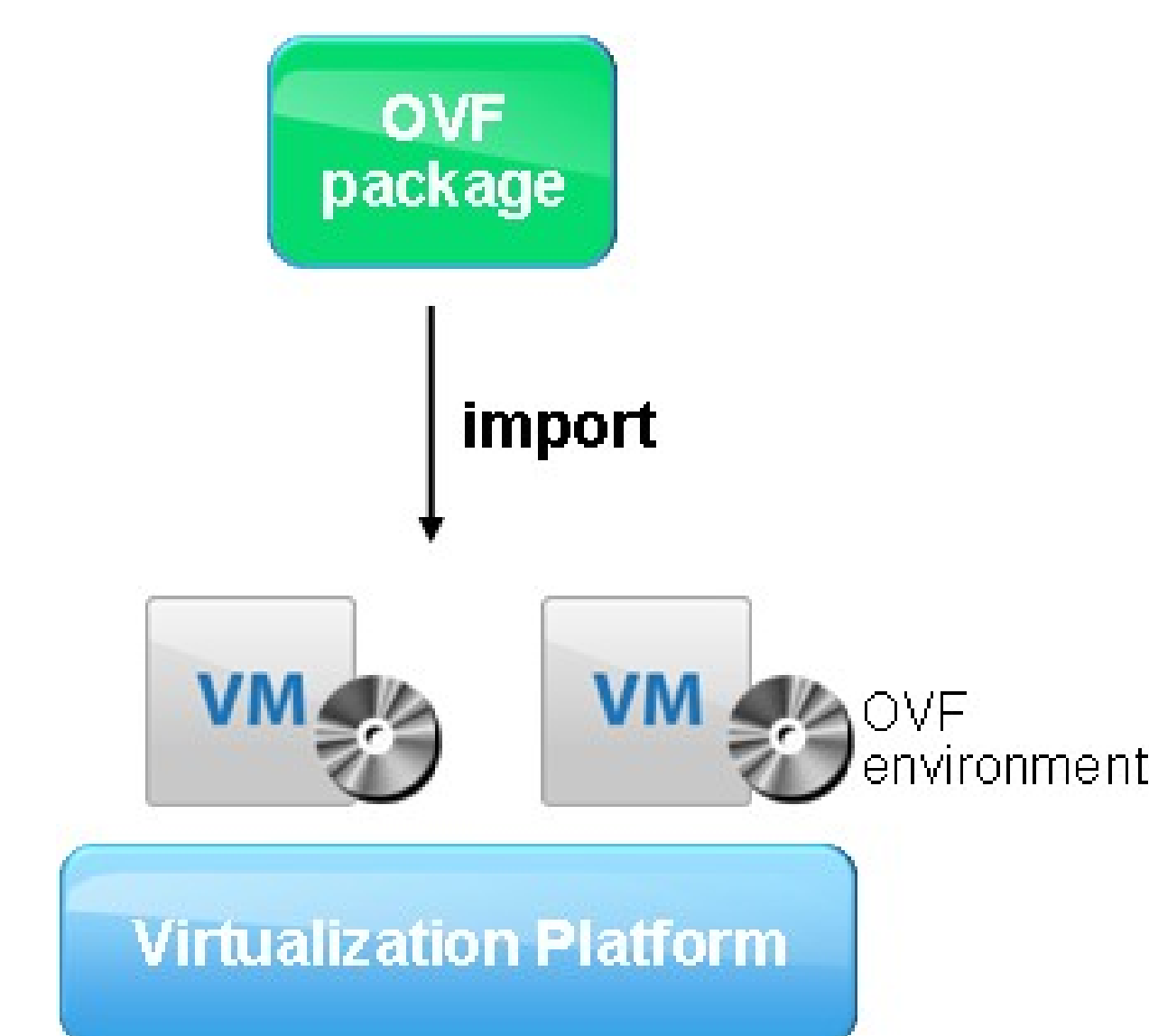
DSP#	Title
DSP1041	Resource Allocation Profile
DSP1042	System Virtualization Profile
DSP1043	Allocation Capabilities Profile
DSP1044	Processor Resource Virtualization Profile
DSP1045	Memory Resource Virtualization Profile
DSP1047	Storage Resource Virtualization Profile
DSP1057	Virtual System Profile
DSP1059	Generic Device Resource Virtualization Profile
DSP2013	Virtualization White Paper
DSP1050	Ethernet Port Resource Virtualization Profile
DSP1097	Virtual System Ethernet Switch Prof

OVF Technology Overview

OVF is a DMTF standard for packaging and distributing virtual appliances. A virtual appliance is a pre-built software solution, comprised of one or more virtual machines that are packaged, maintained, updated and managed as a unit. OVF enables portability and simplifies installation and deployment of workloads across multiple virtualization platforms and cloud computing infrastructures.



OVF Authoring Diagram



OVF Deployment Diagram

www.dmtf.org/ovf
www.dmtf.org/vman

Open Virtualization Format 1 - Published

DSP#	Title
DSP0243	Open Virtualization Format Specification
DSP8023	OVF Envelope XSD
DSP8027	OVF Environment XSD
DSP2017	Open Virtualization Format Whitepaper
DSP2021	Open Virtualization Format Example

Open Virtualization Format 2.0 – Development

DSP#	Title
DSP0243	Open Virtualization Format Specification
DSP1118	Profile to Enable Automated Deployment of OVF Package
DSP8023	OVF Envelope XSD
DSP8027	OVF Environment XSD
DSP2017	Open Virtualization Format Whitepaper
DSP2021	Open Virtualization Format Example

SVPC Charter

The System Virtualization, Partitioning and Clustering Work Group is developing DMTF standards for virtualization management. This includes the discovery, configuration, and active management of virtual computer systems.

Allocation of resources is based on a resource pool model. Supporting resources (i.e., servers, switches, storage) are aggregated into resource pools and allocated resources (i.e., virtual processors, memory, networks, storage) are assigned to virtual machines.

The work group is also developing specifications for the packaging and distribution of virtual appliances composed of one or more virtual computer systems.

Virtualization & Cloud Management Forum

The goal of the VCM Forum is validation and interoperability of the virtualization, OVF, and cloud management standards.



Relevant Websites

DMTF Published Standards
http://dmtf.org/standards/published_documents

DMTF Work in Progress Specifications
<http://dmtf.org/standards/wip>

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