

## **CMWG Current Work**

Cloud Computing has emerged as a significant computing paradigm. Vendors and service providers have embraced the need to provide interoperability between enterprise computing and cloud service providers.

Virtualization technology and the evolution to software packages that can be created and deployed as a collection of virtual images is becoming the primary focus for delivering and managing software solutions into enterprise customers today. As these customers look to also take advantage of cloud computing, extensions are needed to enable interactions between private clouds within enterprises and between private and public cloud providers to exploit this emerging business model.

The Cloud Management WG is focusing on addressing the management interfaces between the cloud service consumer / developer and the cloud service provider. The working group is also addressing the security mechanisms required to enable interoperability.

## Virtualization & Cloud Management Forum

The goal of the VCM Forum is validation and interoperability of the virtualization, OVF, and cloud management standards. VCMF-CIMI group is holding periodic cloud plugfests.



## **Relevant Websites**

DMTF Published Standards http://dmtf.org/standards/published documents

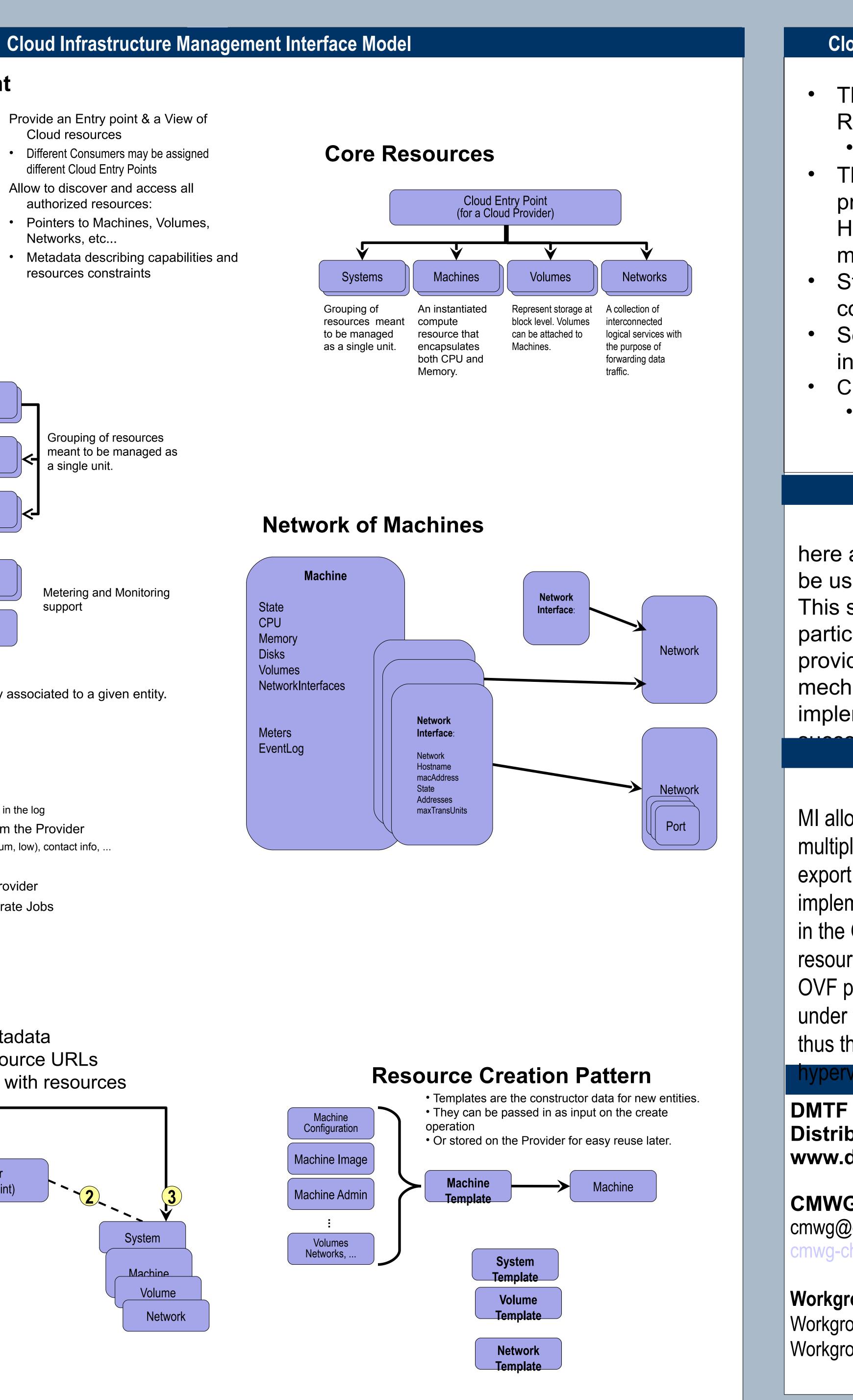
## DMTF Cloud Specifications http://dmtf.org/cloud

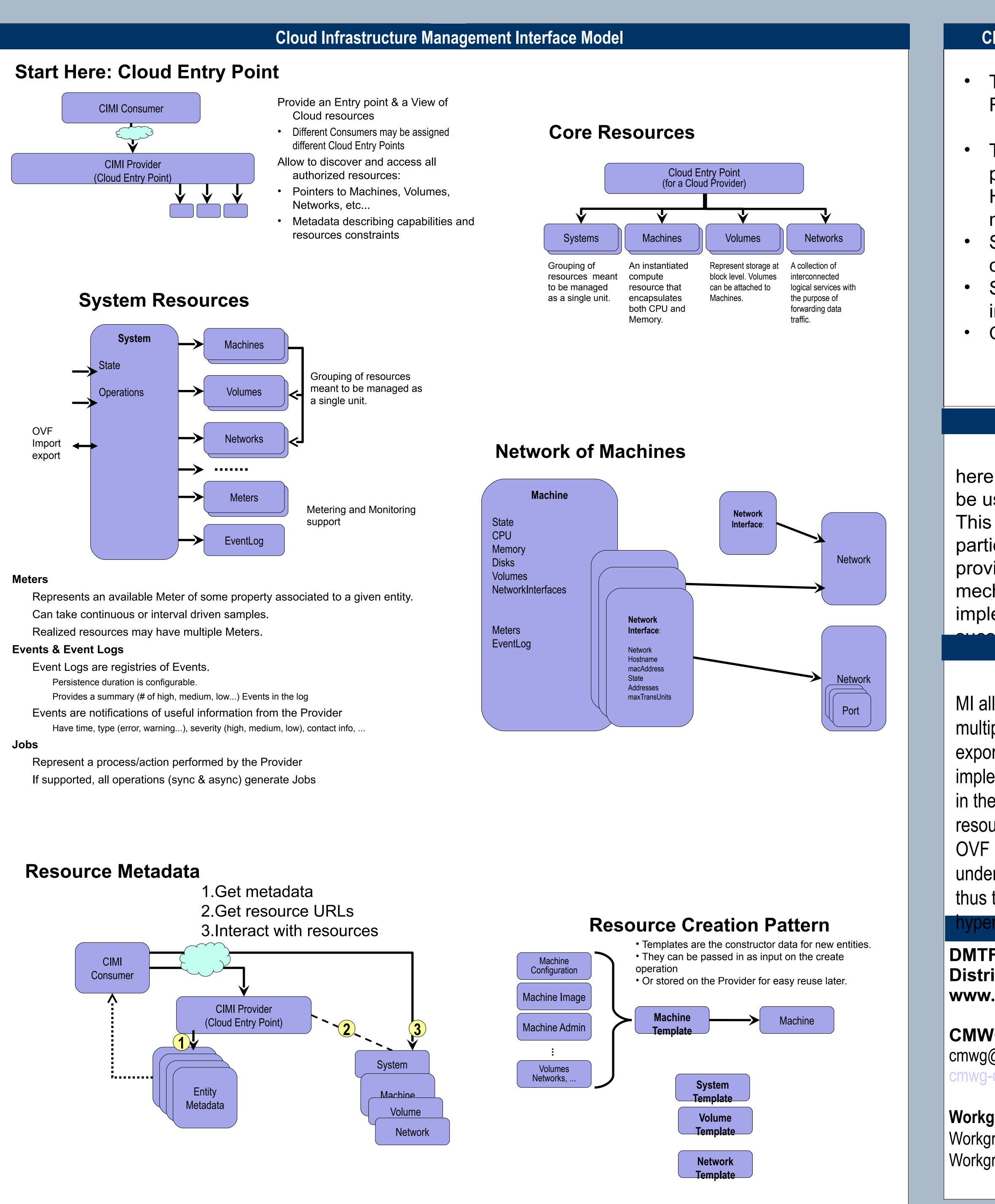
## Standards Documents

www.PosterPresentations.co

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DSP#	Title
DSP0263	Cloud Infrastructure Management Interface (CIMI)
DSP0264	Cloud Infrastructure Management Interface – CIM (CIMI-CIM)
DSP2027	CIMI Primer

# DMTF DCIOUD Infrastructure Management Interface (CIMI) SVM2013







## **Cloud Infrastructure Management Interface Protocol**

The CIMI specification currently describes a REST/HTTP binding to the model Other bindings are anticipated This protocol binding follows REST principles and describes mapping of the HTTP protocol verbs to operations on the model Standard HTTP status codes are used to

convey the results of the operations Serialization formats for the message body include JSON and XML

CIMI-CIM describes the model in CIM

Allows future use of this model from other protocol bindings (i.e. WS-Man, etc.)

## CIMI HTTP/REST Protocol Security

here are many security mechanisms that can be used in conjunction with this specification. This specification does not mandate any particular mechanism(s). Providers shall provide enough information about their security mechanisms so that the Consumer can implement the necessary algorithms to

**Moving Workloads from Cloud to Cloud** 

MI allows the import of an OVF package to create multiple CIMI resources. Support for OVF import and export is optional for a Provider and it is an implementation choice as to how many of the attributes in the OVF package are exposed through CIMI resources. Support for the actual import and export of OVF packages will typically be handled by a hypervisor under the management of the CIMI implementation, and thus the CIMI resources that are created reflect what the Contact information

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