

VMware vCloud Usage Meter Data Privacy and Sharing Guidelines VMware vCloud Usage Meter 4.x

Version - 2.0

Note: The VMware partner facing guidance and process definitions may be updated at any time.



Table of Contents

1. Scope	3
2. Components	3
2.1 VMware vCloud Usage Meter 4.x	3
2.2 VMware Cloud Services Console	4
3. FAQ - Data Sharing	
3.1 General	5
3.2 Privacy	5
4.1 vCloud Usage Meter Disclosure	8
4.2 Report Data Fields for vCloud Usage Meter 4.x	9
4.2.1 vCenter/vCloud Foundation	10
4.2.2 Tanzu Kubernetes Grid Multi-cloud	25
4.2.3 vSAN	29
4.2.4 Site Recovery Manager	31
4.2.5 NSX-T	34
4.2.6 NSX-V	38
4.2.7 NSX Advanced Load Balancer	40
4.2.8 VMware Cloud Director Availability	45
4.2.9 VMware Cloud Director	46
4.2.10 VMware Aria Operations for Networks	49
4.2.11 VMware Aria Operations	54
4.2.12 VMware Aria Automation 7.X	56
4.2.13 VMware Aria Automation 8.X	58
4.3 Data Hashing	61
4.4 VMware Cloud Services Console Report	
5. Contact	66



1. Scope

This document is for VMware Cloud Services Provider partners. It primarily addresses Frequently Asked Questions (FAQ) about the VMware vCloud Usage Meter 4.x data sharing policy and provides details about the data sent from the partner to VMware by Broadcom. This document also provides information about VMware Cloud Services Console and gives details about the reports that it generates. For more details about these products see the VMware Documentation site.

vCloud Usage Meter is an on-premises virtual appliance that Cloud Services Provider partners use to facilitate license-based usage reporting. VMware Cloud Services Console is a free cloud service offering that supports vCloud Usage Meter for automatic reporting and data retention. Partners utilize VMware Cloud Services Console to scale-out their metering deployment and simplify their usage reporting each month.

VMware Cloud Services Console enables providers to register vCloud usage meters appliances, track the usage and download the usage report, more details can be found at VMware Cloud Services console for Cloud Service Providers documentation.

2. Components

vCloud Usage Meter provides metering of vCenter Server, VMware Cloud Foundation, NSX, vSAN, VMware Aria Operations, VMware Aria Automation 7.X and 8.X, VMware Aria Operations for Networks, VMware Cloud Director, VMware Cloud Director Availability, Site Recovery Manager, Tanzu Kubernetes Grid Service and Tanzu Kubernetes Grid Multi-cloud. For the current list of VMware products and versions that vCloud Usage Meter can meter, see the VMware Product Interoperability Matrixes.

2.1 VMware vCloud Usage Meter 4.x

vCloud Usage Meter 4.x is the next evolution in metering and billing. In vCloud Usage Meter 4.x, the data is collected as before, but the raw data is forwarded to VMware Cloud Services Console for aggregation. This benefits the service providers in several ways. First, it separates the data from the logic. By creating this separation, it significantly reduces the updates needed to the appliance. Updates will only be necessary when addressing bugs related to collections or security issues.

The second area that benefits the user is the compliance requirement. With vCloud Usage Meter 3.6.1 and prior, it was incumbent upon the provider to ensure they were keeping the vCloud Usage Meter and related data for three years. With vCloud Usage Meter 4.x, the



data is now being stored within VMware Cloud Services Console and maintained for the required period.

Reports for past months across all vCloud Usage Meter instances can be requested via a support request on VMware Cloud Services Console.

2.2 VMware Cloud Services Console

VMware Cloud Services Console is a VMware cloud service that automates monthly reporting, including end-user data, to the Broadcom billing systems, reducing the overhead of manual reporting. It aggregates reports and data from vCloud Usage Meter instances. Reports for vCloud Usage Meter 4.x data can be viewed in the VMware Cloud Services Console before they are sent to the Broadcom billing systems on a daily basis. It's critical that Cloud Services Providers maintain vCloud Usage Meter instances in good health for billing accuracies.



3. FAQ - Data Sharing

3.1 General

- Q. Why is the data being collected?
- A. Data is being collected for automated reporting to the Broadcom billing systems by Vmware Cloud Services Console.
- Q. What data is transmitted?
- A. An installation confirmation email, report data including monthly usage, anonymized customer usage, VM history reports. VMware vCloud Usage Meter 4.x also sends metering event data. See this section for details.
- Q. How is the data used?
- A. The collected data is used as outlined in the VMware General Terms.
- Q. I have chosen not to participate in automatic reporting. Do I still have to populate the Broadcom systems manually?
- A. As part of VMware Cloud Service Providers program, automatic reporting is mandatory without any exceptions and Providers must deploy and maintain vCloud Usage Meter instances online. There is no option for any manual reporting. If you refuse to deploy and manage vCloud Usage Meter instances, you can face legal liabilities as per program rules.

3.2 Privacy

- Q. Is end customer information present in the data transmitted to VMware by Broadcom?
- A. Utilization statistics for customers are provided. Any information that can be associated directly with a customer. For example, customer names, hostnames, target vCenter, etc. are anonymized using a one-way hash. For more information about vCloud Usage Meter 4.x, see this section.
- Q. Is Personally Identifiable Information (PII) information present in the data transmitted to VMware?
- A. Any information that can be classified as PII is anonymized using a one-way hash. For more information about vCloud Usage Meter 4.x, see this section.
- Q. How is the data anonymized?



- A. In vCloud Usage Meter 4.x, data is anonymized using a salted SHA-256 based one-way hash. Salting the hash means that the anonymized values are not subject to decryption by 'rainbow table'.
- Q. Are customer labels anonymized?
- A. No, they are not anonymized as partners have control over how their customer labels will be named. Partners can provide any names for their customer labels or use names that do not reveal the identities of their customers.
- Q. What TLS ciphers are used for the encryption of the communication between vCloud Usage Meter and VMware Cloud Services Console?
- A. The connection is secured by the following ciphers:
- TLS_AES_128_GCM_SHA256,
- TLS_AES_256_GCM_SHA384,
- TLS_CHACHA20_POLY1305_SHA256,
- TLS_AES_128_CCM_SHA256,
- TLS AES 256 CCM 8 SHA256,
- TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256,
- TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256,
- TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384,
- TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384,
- TLS ECDHE ECDSA WITH CHACHA20 POLY1305 SHA256,
- TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256,
- TLS ECDHE RSA WITH AES 128 CBC SHA,
- TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA,
- TLS_RSA_WITH_AES_128_GCM_SHA256, TLS_RSA_WITH_AES_256_GCM_SHA384,
- TLS RSA WITH AES 128 CBC SHA,
- TLS_RSA_WITH_AES_256_CBC_SHA,
- TLS RSA WITH 3DES EDE CBC SHA
- Q. Who at VMware has access to the data?
- A. The support and product development teams at VMware have access to this data for support and developing improved reporting processes.
- Q. In which country will the data reside?
- A. The anonymized data will reside in the United States.
- Q. How long does the data need to be retained?



- A. For users of vCloud Usage Meter 4.x, the data will be retained and managed by VMware for five years.
- Q. How is data in the cloud service deleted, by request, or by a customer?
- A. Data is deleted automatically upon the expiration of the retention period, which is 5 years.
- Q. How is data separated in the cloud service?
- A. Data is partitioned by partner identity and vCloud Usage Meter ID. Each partition is processed separately.

3.3 Data and Transmission

- Q. Where is the data being sent?
- A. For HTTPS, data is being transmitted to https://ums.cloud.vmware.com.
- Q. In what format is data sent to VMware?
- A. For vCloud Usage Meter 4.x, data is sent in a compressed text format that is encrypted for transmission.
- Q. How frequently is data sent to VMware?
- A. For vCloud Usage Meter 4.x, data is collected and sent on an hourly basis.
- Q. How are reports transmitted to VMware?
- A. vCloud Usage Meter 4.x transmits data via HTTPS only.
- Q. Is an email server required?
- A. vCloud Usage Meter 4.x does not require SMTP services.

3.4 Operational

- Q Can I turn off transmitting data to VMware?
- A. vCloud Usage Meter does not offer a control to turn off data transmission.
- Q. What if vCloud Usage Meter does not have access to an email server that has Internet connectivity?



- A. For vCloud Usage Meter 4.x, information is transmitted via HTTPS only. SMTP is not a requirement.
- Q. What if the data transmitted fails to reach VMware for some reason?
- A. If a data transmission failure occurs, it is the responsibility of the service provider to resolve the connection issue. Once connectivity has been re-established, data will be pushed to VMware. If the data is received prior to the deadline, it will be processed and used to populate the VMware Cloud Services Console. If it is not re-established, the service provider will need to contact VMware point of contact to process missed reporting.
- Q. Can reports continue to be generated from the local usage meter?
- A. When using vCloud Usage Meter 4.x, usage reports are generated on VMware Cloud Services Console. vCloud Usage Meter 4.x is a collection engine only and all reporting logic has been moved to VMware Cloud Services Console. There is no provision to generate usage reports in vCloud Usage Meter 4.x.

4.1 vCloud Usage Meter Disclosure

The following disclosure is shown when first logging into vCloud Usage Meter 4.x:

vCloud Usage Meter 4.x works along with VMware Cloud Services Console. UM 4.x periodically sends metering data to VMware Cloud Services Console for report processing. You must login to VMware Cloud Services Console to generate reports.

By installing this version of vCloud Usage Meter, you acknowledge that you will automatically send data to VMware. This data -

- 1) Confirms your installation of vCloud Usage Meter 4.x, and
- 2) Includes metering event data as described in https://partnerportal.broadcom.com/group/partner-portal/vmware-cloud-service-providers
- 2) Is used according to the service description on VMware's General Terms page: https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/agreements/vmware-general-terms.pdf



4.2 Report Data Fields for vCloud Usage Meter 4.x

These tables list the collected data by the vCloud Usage Meter 4.x Agent that VMware Cloud Services Console receives.

vCloud Usage Meter runs in the service provider datacenter and sends a json formatted payload of the metered data. The fields whose data is not required are anonymized, but unique anonymization is for reporting purposes. This anonymization is conducted prior to transmitting to VMware using a salted SHA-256 one-way hash. From the hash, VMware cannot obtain the original value of the fields. The json payload is formatted as a table for readability. Data that is anonymized is noted in **bold** in the Description column of the tables below.

The following data is sent by vCloud Usage Meter appliance in addition to product specific data detailed in the product sections below.

Generic Product Data					
Data	Туре	Description	Sample		
active	bool	Represents whether the product instance is active or not.	true		
port	integer	Port of the endpoint. For vRealize Automation, port data is not sent to the cloud.	443		
host	string	The product host, anonymized . Host data is not sent to the cloud for vRealize Automation.	jyCLaxoGOWEQ		
forgotten	bool	Represents whether the product is marked as deleted or not.	false		
metered	bool	Represents whether the product is being metered or not.	true		
id	integer	Internal unique identifier for each product.	8		
productType	string	The name of the product being metered.	NSX-T		
lastChanged	long	The unix timestamp of when the record was last updated.	1587595762016		
who	string	Collector type.	Product		



Generic Product Data					
Data	Туре	Description	Sample		
version	string	Product version.	2.4.1		
id	integer	The ID of the product in the vCloud Usage Meter web application.	2		
time	long	The Unix timestamp of when the record was created.	1585266130714		

The following data is sent by vCloud Usage Meter appliance in addition to the collected data and is used for system purposes.

vCloud Usage Meter Metadata			
Data	Sample		
UM ID	3f8fbe8c-4683-43e0-9a6f-76ac4041cb2c		
UM version	4.7.0.0		
Checksum	e9aa96e83dd17da97aeed8c725e1881f		

4.2.1 vCenter/vCloud Foundation

vCenter Virtual Machine Data				
Data	Туре	Description	Sample	
type	string	The type of object that the metering data is about.	VirtualMachine	
moref	string	A string that uniquely identifies a virtual machine on one vCenter.	vm-24	
vcld	intege r	An integer that specifies the vCloud Usage Meter productId	1	



vCenter Virtual Machine Data				
Data	Туре	Description	Sample	
		for the vCenter defined behind the moref. For the vCenter collector, this is always the same as the productId.		
collectionId	intege r	An integer serial number that specifies the collection that this data is part of.	5882	
productType	string	The name of the metered product.	vCenter	
productId	intege r	An integer that specifies the product instance being metered. For the vCenter collector, productld is always the same as vcld.	1	
time	long	A millisecond timestamp that specifies when the usage report data structure was created. Depending on how long the data collection takes, this might be some time after the metering happened.	1587595907395	
category	string	The vCenter managed object used to query the contents of a container to produce this report.	VcContainerView	
updateKind	string	This property specifies the kind of data collection that this object represents. If the value is "poll", then the optional properties should specify a full	poll	



vCenter Virtual Machine Data			
Data	Туре	Description	Sample
		report on the virtual machine and most of those properties should be present. Otherwise, this object represents a change in one or more of the properties and most of the optional properties will be absent. If a VM is powered on or off, for example, then this property will be "modify", powerState will be defined, and the other optional properties will be absent. The values "enter" and "leave" occur when a VM is created or deleted.	
name	string	The anonymized name of the VM.	OFX0UdmRW6yD
cpuReservation	intege r	Represents the CPU reservation per VM.	2000
guestName	string	The anonymized full name of any guest operating system installed in a virtual machine	LBRVEFqSZaBK
guestId	string	This property is used to distinguish between traditional virtual machines and k8s managed virtual machines.	crxPod1Guest
managedByExtKey	string	This property is used to distinguish between traditional	For Service VM such as Supervisor VM this value is com.vmware.vim.eam and for TKG Service VMs



vCenter Virtual Machine Data				
Data	Туре	Description	Sample	
		virtual machines and k8s- managed virtual machines.	it is com.vmware.vcenter.wc	
instanceUuid	string	The virtual machine's unique instance/bios uuid.	50160db8-07c8-160a- d660-f8a9f1cf8658	
memorySizeMB	intege r	The allocated memory size in MB to a VM.	512	
memoryReservation	intege r	The guest memory reservation of a virtual machine in MB.	512	
numCpu	intege r	Indicates the number of CPU cores allocated to a virtual machine.	1	
hostName	string	The anonymized name of the host where the VM is deployed.	1Vv/uV55nt9R	
hostMoref	string	A string that uniquely identifies the host on one vCenter.	host-10	
powerState	string	Represents whether the VM is on or off.	POWERED_OFF	
bootTime	string	The timestamp of when the virtual machine was most recently powered on.	2020-04- 07T17:57:05.466391Z	
		This property is updated when the virtual machine is powered on from the poweredOff state and is cleared when the virtual machine is powered off. This property is not updated when		



vCenter Virtual Mach	vCenter Virtual Machine Data				
Data	Туре	Description	Sample		
		a virtual machine is resumed from a suspended state.			
suspendTime	string	The timestamp of when the virtual machine was most recently suspended. This property is updated every time the virtual machine is suspended.	2020-03- 30T07:27:16.07049Z		
suspendInterval	intege r	The total times the virtual machine has been suspended since it was initially powered on. This time excludes the current period if the virtual machine is currently suspended. This property is updated when the virtual machine resumes and is reset to zero when the virtual machine is powered off.	0		
ipAddress	string	The anonymized IP address of a vCenter VM.	aKIN8U4uSaqw		
productName	string	The vCenter variable summary.config.product.name . Virtual machines with product name vCloud Usage Meter are not metered.	VMware Cloud Director		
resourcePoolName	string	The name of the resource pool that this VM is associated with.	Namespaces		
resourcePoolMoref	string	The managed object id of the resource pool that this virtual	resgroup-8		



vCenter Virtual Machine Data				
Data	Туре	Description	Sample	
		machine is associated with. Resource pools are logical abstractions for flexible management of resources. Resource pools can be grouped into hierarchies to partition CPU and memory resources.		
cloudId	string	Cloud ID.	69e39f38-dbcd-423f- bbb5-88f141171949	
numCoresPerSocke t	intege r	Number of cores used to distribute virtual CPUs among sockets in this virtual machine. If the value is unset, the default value is 1.	8	

vCenter Host Data			
Data	Туре	Description	Sample
type	string	The kind of object that the metering data is about. For metering data for vCenter hosts, this property will always be "HostSystem".	HostSystem
moref	string	A string that uniquely identifies the host on one vCenter.	host-10
vcld	integer	An integer that specifies the vCloud Usage Meter productId for the vCenter that defines the moref. For the vCenter collector,	1



vCenter Host Data	vCenter Host Data			
Data	Туре	Description	Sample	
		this is always the same as productId.		
collectionId	integer	An integer serial number that specifies the collection that this data is part of.	5883	
productType	string	For this collector, this property is always "vCenter".	vCenter	
productId	integer	An integer that specifies the product instance being metered. For the vCenter collector, productld is always the same as vcld.	1	
time	long	A millisecond timestamp that specifies when the UsageReport data structure was created. Depending on how long the data collection takes, this may be some time after the metering happened.	1587595907904	
category	string	The category of the vCenter collector.	VcPropertyCollector	
updateKind	string	This property specifies the kind of data collection that this object represents. If the value is "poll", then this is a full report on this host and most of the optional properties should be present. Otherwise, this object represents a change in one or more of the properties and most of the	poll	



vCenter Host Data					
Data	Туре	Description	Sample		
		optional properties will be absent. If a host is powered on or off, for example, then this property will be "modify", powerState will be defined, and the other optional properties will be absent. The values "enter", and "leave" occur when a host is created or deleted.			
name	string	The anonymized name of the host.	Z8slTJ01d85O		
clusterId	string	A string that uniquely identifies this host's parent cluster on the vCenter. It is cluster's moref and it identifies resource type: ClusterComputeResource.	domain-c12		
memorySize	integer	The memory size of a host in MB.	17179332608		
numCpuCores	integer	Number of physical CPU cores on the host.	4		
numCpuPackages	integer	Number of physical CPU packages on the host.	4		
numCpuThreads	integer	Aggregated number of CPU threads.	4		
cpuHz	integer	The host CPU capacity is GHz.	30		
fullProductName	string	The host's full name.	A+xa1PyPbNXb		
productVersion	string	The host product version.	6.0.0		
productLineId	string	The id of the host product line.	embeddedEsx		



vCenter Host Data			
Data	Туре	Description	Sample
licenseProductName	string	The host product license name.	VMware ESX Server
bootTime	string	The time when the host was booted.	2019-05- 10T09:22:27.329999Z
connectionState	string	The host's connection state.	CONNECTED
powerState	string	Represents whether the host is on or off. From the vCenter variable runtime.powerState.	POWERED_ON
serverManufacturer	string	The name of the server manufacturer.	VMware Inc.
serverModel	string	The model of the server.	VMware ESXi
cpuManufacturer	string	The name of the CPU manufacturer.	VMware Inc.
cpuModel	string	The model of the CPU.	VMware Virtual Platform
cloudID	string	Cloud ID	69e39f38-dbcd-423f- bbb5-88f141171949

vCenter License Data				
Data	Туре	Description	Sample	
type	string	The kind of object that the metering data is about.	LicenseManagerLicenseInfo	
moref	string	The vCenter identifier that identifies the entity that is subject to this license.	1	



vCenter Lice	vCenter License Data					
Data	Туре	Description	Sample			
vcld	intege r	An integer that specifies the vCloud Usage Meter productId for the vCenter that defines the moref. For the vCenter collector, this is always the same as productId.	1			
collectionId	intege r	An integer serial number that specifies the collection that this data is part of.	5883			
productTyp e	string	The name of the metered product: always "vCenter" for this collector.	vCenter			
productId	intege r	An integer that specifies the product instance being metered. For the vCenter collector, productld is always the same as vcld.	1			
time	long	A millisecond timestamp that specifies when the UsageReport data structure was created. Depending on how long the data collection takes, this might be some time after the metering happened.	1587595907904			
licenseKey	string	The license key in use.	00000-00000-00000-			
licenseNam e	string	The name of the license.	VMware vSphere 6 Enterprise Plus			
licenseEditi on	string	The name of the license edition.	esx.enterprisePlus.cpuPack age			
total	intege r	License count.	64			



vCenter License Data				
Data	Type	Description	Sample	
productNa me	string	Product name that is using this license.	VMware ESX Server	
update	bool	If this property is true, then this object was generated in response to a com.vmware.license.AssignLicenseE vent. If false, then this object results from querying all vCenter licenses.	false	

vCenter CMR	vCenter CMR Data					
Data	Туре	Description	Sample			
moref	string	A string that uniquely identifies a virtual machine on one vCenter.	1			
vcld	integer	An integer that specifies the vCloud Usage Meter productId for the vCenter that defines the moref. For the vCenter collector, this is always the same as productId.	1			
collectionId	integer	An integer serial number that specifies the collection that this data is part of.	5785			
productType	string	The name of the metered product: always "vCenter" for this collector.	vCenter			
productId	integer	A unique identifier per product. Add-on collectors do not have an individual productId. It will be the vCenter productId that will be used.	1			
time	integer	A millisecond timestamp. This property shows the time at which the customer label event was calculated. The calculation occurs	1587594567904			



		once an hour. vCenter collector will not send an event if the customer label relationship has not been changed since the last collection. Customer label event is sent after the start of all virtual machines, so the event stream may contain two consecutive events for the presence of a customer label relationship.	
ruleName	string	The name of the customer label. If there are customer labels configured and a particular virtual machine is not associated with any of them, events will still be generated. The default value for such virtual machines is "n/a". When a virtual machine is no longer associated with a label, it will be associated with this default label as well.	Customer-123
instanceUuid	string	The virtual machine's unique instance/bios UUID.	50160db8-07c8- 160a-d660- f8a9f1cf8658

vCenter /vSAN/Site Recovery Manager/VMware Cloud Foundation Product Data				
Data	Type	Description	Sample	
externalSSO	bool	Represents whether SSO is enabled or not.	false	
extSSOhost	string	The anonymized SSO IP address.	kmQT0Bkq8yU7	
extSSOport	intege r	SSO port number.	7444	
vc_instance_uuid	string	vCenter instance UUID.	Of2b6fbc-029e-4138-a9af- 921b30d4c299	



vCenter /vSAN/Site Recovery Manager/VMware Cloud Foundation Product Data				
Data	Туре	Description	Sample	
vc_licence	string	vCenter license key.	00000-00000-00000- 00000-00000	
vc_licence_name	string	vCenter license name.	VMware vCenter Server 6 Standard	
productType	string	The property of this value should always be "vCenter".	vCenter	
vc_version	string	Version of the vCenter instance.	6.5.0	
k8sMetric	string	The metric that metering of the vSphere k8s product is based on.	vRAM	
srmMetered	bool	Indicates whether Site Recovery Manager metering is turned on or off from the vCloud Usage Meter web application.	true	
srmEnabled	bool	Indicates whether this vCenter has any Site Recovery Manager extensions.	true	
srmLicenses	object[An array of Site Recovery Manager licenses objects	[{	



vCenter /vSAN/Site Recov	very Man	ager/VMware Cloud	Foundation Product Data
Data	Туре	Description	Sample
		presented in the Virtual center.	"product": "VMware vCenter Site Recovery Manager",
			"productVersion":"8.1",
			"edition":"srm.enterprise.v m",
			"total": 2000,
			"name": "vCenter Site Recovery Manager Enterprise",
			"key": "00000-00000-
			}
]
srmLicenses.product	string	The name of the metered product, for example, VMware vCenter Site Recovery Manager.	VMware vCenter Site Recovery Manager
srmLicenses.productVers ion	string	Site Recovery Manager product version.	8.1
srmLicenses.edition	string	Type of the Site Recovery Manager license like Enterprise/Advanc ed, etc.	srm.enterprise.vm



vCenter /vSAN/Site Recovery Manager/VMware Cloud Foundation Product Data			
Data	Туре	Description	Sample
srmLicenses.total	intege r	Capacity of virtual machines specific to license.	2000
srmLicenses.name	string	Site Recovery Manager product license name.	vCenter Site Recovery Manager Enterprise
srmLicenses.key	string	Site Recovery Manager product license key.	00000-00000- 00000-00000
vsanEnabled	bool	Indicates whether this vCenter server cluster object has vSAN enabled.	true
vsanClusterCount	intege r	The number of vSAN clusters on this vCenter.	1
vsanVersions	array[]	A set of distinct vSAN version numbers.	["7.0.0"]
totalCapacityBytes	Intege	The total vSAN capacity in bytes, which is the total used and free capacity combined. It's the total of physical space which can be used for writing data including the user data, metadata,	643376873472



vCenter /vSAN/Site Recovery Manager/VMware Cloud Foundation Product Data				
Data	Туре	Description	Sample	
		and the overhead data.		

vCenter CMR	vCenter CMR Data				
Data	Туре	Description	Sample		
type	string	The kind of object that the metering data is about.	VirtualMachine		
moreof	string	Managed Object Reference ID, unique per vCenter. For a virtual machine, the string must start with "vm".	vm-178		
productType	string	Product type. The property value is "vCenter".	vCenter		
productID	integer	Per vCloud Usage Meter unique product id.	27		
time	integer	The Unix timestamp of when the record was collected.	1584941400000		
ruleName	string	The non-obfuscated name of the customer's rule.	RAX-Datastore		

4.2.2 Tanzu Kubernetes Grid Multi-cloud

Tanzu Kubernetes Grid management cluster Product Data					
Data	Туре	Description	Sample		
productType	string	The type of	TKGM		
		VMware product.			
		For this collector,			
		the property			
		value should			



Tanzu Kuberi	Tanzu Kubernetes Grid management cluster Product Data					
Data	Туре	Description	Sample			
		always be "TKGM".				
id	number	The number of the Tanzu Kubernetes Grid management cluster in the vCloud Usage Meter web application.	12			
Uuid	string	Product uuid.	6lkf5070-4c6e-407a-b264-ca7647b25d1b			
version	double	The product version.	1.5			
host	string	The name of the management cluster.	my.tanzu.management.cluster.control.plane			
port	integer	The Tanzu Kubernetes Grid management cluster port.	6443			
tkgmEdition	string	The selected type of Tanzu Kubernetes Grid management cluster license edition.	Basic			
tkgmMetric	string	The selected type of metric for the Tanzu Kubernetes	vRAM			



Tanzu Kuberi	Tanzu Kubernetes Grid management cluster Product Data					
Data	Туре	Description	Sample			
		Grid management cluster.				
vcld	number	The id of the associated vCenter Server in the vCloud Usage Meter web application.	3			
forgotten	Boolean	Indicates whether the product is marked as deleted or not.	false			
active	Boolean	Indicates whether a product instance is active or not.	true			
metered	boolean	Indicates whether the product is ready for metering.	true			
lastChanged	integer	A millisecond timestamp that specifies when the product data structure was created.	346654778			



Tanzu Kubernetes Grid management cluster VM Data				
Data	Туре	Description	Sample	
productId	number	The number of Tanzu Kubernetes Grid management cluster instances in the vCloud Usage Meter web application.	2	
productType	string	The type of VMware product being metered.	TKGm	
collectionID	integer	A unique identifier for every collection.	13435	
type	string	The object that the metering data is about.	VirtualMachine	
vcld	number	An integer that specifies the vCloud Usage Meter productId for the vCenter that defines the object of the metering.	1	
uuid	string	The virtual machine's unique instance/bios uuid.	gxf5070-4c6e- 407a-b264- ca7647b25d1b	
tkgmEdition	string	The Tanzu Kubernetes Grid management cluster edition that is associated with the virtual machine.	Advanced	
tkgmMetric	string	The type of metric used for tracking virtual machine usage.	vRAM	
vmType	string	The type of the Tanzu Kubernetes Grid management cluster that is associated with the virtual machine. The types can be management (MGT) and workload (WLD).	WLD	
time	integer	The timestamp of the collection in ms.	343463	



4.2.3 vSAN

vSAN Cluster Collection Data					
Data	Туре	Description	Sample		
time	long	The unix timestamp of when the record was collected.	1585266130714		
collectionId	integer	A unique identifier for each collection.	176586		
productType	string	A unique identifier for each product being metered. It is vCenter here.	vCenter		
category	string	The category of the vCenter collector. The value for vSAN clusters is VcAddon_VSAN_Collector.	VcAddon_VSAN_Collector		
productId	integer	A unique identifier for each product. Add-on collectors do not have individual productIds. They use the vCenter productId.	1		
clusterId	string	A unique identifier for the cluster for which vSAN is enabled.	domain-c12		
clusterName	string	The anonymized name of the cluster for which vSAN is enabled.	OUfypLEAUZCy		
edition	string	The license edition. It can be: STANDARD, ADVANCE, ENTERPRISE, DESKTOP or ROBO.	STANDARD		



vSAN Cluster Collection Data					
Data	Туре	Description	Sample		
licenseKey	string	The license key associated with the cluster.	00000-00000		
productVersion	string	The vSAN version.	7.0.0		
UsedCapacityBytes	long	The vSAN usage, for the cluster, in bytes.	1073741824		
vsanFeatures	list	The list of detected features used by a vSAN cluster.	BASE, DEDUPLICATION, ERASURE_CODING		

vSAN VM Colle	vSAN VM Collection Data					
Data	Туре	Description	Sample			
productId	integer	A unique identifier per product. Add-on collectors do not have individual productIds. They use the vCenter productId.	α			
moref	string	A unique identifier for virtual machine moref.	vm-61			
spbmFeatures	list	Storage policy related features of a specific virtual machine within the vCenter.	ERASURE_CODING			
time	long	Unix timestamp of when the record was collected.	1598563575114			
category	string	The category of the vCenter collector. The value should be VcAddon_VSAN_Collector.	VcAddon_SPBM_Collector			
type	string	The object type of Moref i.e., VirtualMachine.	VirtualMachine			



vSAN VM Collection Data					
Data	Туре	Description	Sample		
collectionId	integer	A unique identifier for every collection.	9		
productType	string	A unique identifier for each product being metered. It is vCenter here.	vCenter		
vcld	integer	An integer that specifies the vCloud Usage Meter productld for the vCenter that defines the moref. For the vCenter collector, this is always the same as productld.	3		

4.2.4 Site Recovery Manager

Site Recovery Manager Collection Data				
Data	Туре	Description	Sample	
collectionId	intege r	A unique identifier for each collection.	21	
lastSrmCollectionTimesta mp	intege r	A unique identifier for the last collection for Site Recovery Manager collection with Unix timestamp.	1584555748881	
moref	string	A unique identifier for virtual machine Moref.	vm-123	
name	string	The anonymized name of the virtual machine.	U06MO4+a0Zbl	



Site Recovery Manager Co	Site Recovery Manager Collection Data			
Data	Туре	Description	Sample	
peerProtectedVmMoref	string	A unique identifier for peer protected virtual machine Moref.	protected-vm-4053	
peerState	string	An identifier for the protection state on the remote site.	SHADOWING	
primarySiteName	string	The primary site name for Site Recovery Manager that is present in the vCenter collector. The primary Site Recovery Manager site where the virtual machine gets protected. This value is anonymized.	IZiExIBcMzTy	
productId	string	A unique identifier for each product. Add-on collectors do not have an individual productld. The productld is the same as the vCenter productld.	1	
productType	string	A unique identifier for each product being metered. The value for this collector is vCenter.	vCenter	
protectedVmMoref	string	A unique identifier of the protected virtual machine identifier on the local site.	protected-vm-1182	



Site Recovery Manager Co	Site Recovery Manager Collection Data				
Data	Туре	Description	Sample		
protectionGroupMoref	string	A unique identifier of the protection group named Moref.	srm-vm-protection- group-4020		
protectionGroupName	string	A unique identifier of the protection group name. This value is anonymized.	8BsmXuIEvu51		
protectionState	string	An identifier of the protection state of this protected virtual machine.	READY		
secondarySiteName	string	The secondary site name of Site Recovery Manager present in the target vCenter collector. The secondary/target Site Recovery Manager site is where the virtual machine gets replicated. This value is anonymized.	mZnAX/826tx/		
secondarySiteVcProductId	intege r	The secondary/target Site Recovery Manager remote site VCInfra product ID.	-1		
secondarySiteVcUuid	string	The secondary/target Site Recovery Manager site's vCenter Server instance uuid.	6b3a5070-4c6e-407a- b264-ca7647b25d1b		



Site Recovery Manager Collection Data				
Data	Туре	Description	Sample	
time	intege r	The Unix timestamp of when the record was collected.	1585266130714	
type	string	The object type of Moref i.e., VirtualMachine.	VirtualMachine	
vmInstanceuuid	string	The virtual machine's unique instance/bios uuid.	42319808-fbc7-71ff- 3c2f-89777f16bf68	
category	string	The category of the vCenter collector. The value for vSAN add-ons is VcAddon_SRM_Collect or.	VcAddon_SRM_Collect or	

4.2.5 NSX-T

NSX-T Product Data			
Data	Typ e	Descri ption	Sample
version	stri	The	2.4.1
	ng	softwa	
		re	
		versio	
		n of	
		the	
		NSX-T	
		instan	
		ce.	



NSX-T Product Data			
Data	Тур	Descri ption	Sample
vcHosts	stri ng[]	An array of strings that contai ns the set of vCente r hosts runnin g virtual machi nes using NSX-T featur es. The strings are anony mized.	[73D2CF9D7CF013078AAD3D0BF29EC3EBE181680055 49E6E7B9E48AE9EE49756D]
licenses	jso n	The NSX-T license details return ed by the produ	{"description":"NSX Data Center Evaluation","licenseKey":"00000-00000-00000- 00000- 00000","isEval":true,"capacityType":"CPU","quantity":0 ,"isExpired":false,"expiry":1007136262,"isMh":false}



NOV T D				
NSX-T Product Data				
Data	Тур	Descri	Sample	
	е	ption		
		ct. The		
		values		
		are in		
		json		
		format		
computeMana	stri	An	["wSt4MouWfa+v"]	
gerHostnames	ng[array		
]	of		
		hostna		
		mes.		
		The		
		values		
		of the		
		strings		
		are		
		anony		
		mized.		

NSX-T VM Data				
Data	Туре	Description	Sample	
type	string	The kind of object that the metering data is about. For the NSX-T collector this property should always have the "VirtualMachine" value.	VirtualMachine	
uuid	string	A unique identifier for the virtual machine being metered.	5009ed49- 4579-cae1- 6d2e- e58f11c59b50	



NSX-T VM Data					
Data	Туре	Description	Sample		
moref	string	A string that uniquely identifies a virtual machine on one vCenter. If this property is specified, then the vcld property is required.	vm-35		
vcld	integer	An integer that specifies the vCloud Usage Meter productId for the vCenter that defines the moref. If the moref property is specified, then this property is required.	ω		
nsxFeatures	string[]	An array of strings that specify the set of NSX-T features used by the specified virtual machine. The allowed values of these strings and the meaning behind the values are defined by the com.vmware.um.nsxtcollector.Feature enum in the NSX-T collector source code.	BASE, DFW		
collectionId	integer	An integer serial number that specifies the collection that this data is part of.	5890		
productId	integer	An integer that specifies the product instance being metered. For the vCenter collector, productld should always be the same as the vcld.	3		
productType	string	The name of the product being metered. For this collector, the name is "NSX-T".	NSX-T		
time	long	A millisecond timestamp that specifies when the UsageReport data structure was created. Depending on how long the data collection takes, this might be some time after the metering happened.	1584569484312		
cloudId	string	Cloud ID.	69e39f38- dbcd-423f-		



NSX-T VM Data				
Data	Sample			
			bbb5- 88f141171949	

4.2.6 NSX-V

NSX-V Data	NSX-V Data						
Data	Туре	Description	Sample				
type	string	The kind of object that the metering data is about. For the NSX-V collector this property will always be "VirtualMachine".	VirtualMachine				
moref	string	A string that uniquely identifies a virtual machine on one vCenter.	vm-85				
vcld	integer	An integer that specifies the vCloud Usage Meter productId for the vCenter that defines the appliance.	2				
features	string[]	An array of strings that contains the set of NSX-V features used by the specified virtual machine.	DFW, DFW_AD				
collectionId	integer	An integer serial number that specifies the collection that this data is part of.	5880				
productType	string	The name of the product being metered. For this collector, the name is always "NSX-V".	NSX-V				
productId	integer	An integer that specifies the product instance being metered.	2				
time	integer	A millisecond timestamp that specifies when the UsageReport data structure was created. Depending on how long the data collection	1587595912372				



NSX-V Data						
Data	Туре	Description	Sample			
		takes, this might be some time after the metering happened.				

NSX-V Product Data							
Data	Туре	Description	Sample				
version	string	Software version of the NSX-V instance	6.4.5.0.1				
licenseKey	string	License key of the NSX-V instance.	00000-00000- 00000-00000- 00000				
licenseName	string	License name of the NSX-V instance.	NSX Data Center Evaluation				
licenseEdition	string	The type of the license edition.	Advanced				
licenseTotal	integer	The total number of virtual machines that can be associated with a license.	50				
licenseProductName	string	The full product name of this NSX-V license.	NSX Data Center Advanced				
vcld	integer	An integer that specifies the vCloud Usage Meter productId for the vCenter of this NSX-V.	1				



4.2.7 NSX Advanced Load Balancer

NSX Advanced Load Balancer Product Data						
Data	Type	Description	Sample			
clusterUuid	string	A unique identifier of the NSX Advanced Load Balancer Controller license that is being reported on.	cluster-75eb19f8-40e0- 4b7d-918d- 8c3270be9048			
clusterVersion	string	Current software version installed on the NSX Advanced Load Balancer Controller.	21.1.3			

NSX Advanced Load Balancer Usage Data					
Data	Type	Description	Sample		
productId	integ	An integer	1		
	er	that			
		specifies			
		the product			
		instance			
		being			
		metered.			
	strin	The kind of	NSXALB		
category		collector	INSAALB		
	g	that the			
		metering data is for.			
		The value			
		for this			
		collector is			
		always			
		"NSXALB".			
time	int	А	1672531200000		
		millisecond			



NSX Advanced Load Balancer Usage Data				
Data	Туре	Description	Sample	
		timestamp		
		that		
		specifies		
		when the		
		data was		
		collected.		
clusterUuid	strin	A unique	cluster-bc5be539-2bdd-4ff3-	
	g	identifier of	adc9-e4d9917fc29c	
		the NSX		
		Advanced		
		Load		
		Balancer		
		Controller		
		license that		
		is being		
		reported		
		on.		
clusterVersion	strin	Current	22.1.3	
	g	software		
		version		
		installed on		
		the NSX		
		Advanced		
		Load		
		Balancer		
		Controller.		
totalLicensedCores	int	Total cores	170	
		currently		
		licensed on		
		the NSX		
		Advanced		
		Load		



NSX Advanced Load Balancer Usage Data				
Data	Туре	Description	Sample	
		Balancer controller.		
totalCoresConsumed	int	Total cores currently being consumed by service engines on the NSX Advanced Load Balancer controller.	10	
licenseTier	strin g	License tier NSX Advanced Load Balancer Controller is running under. (ENTERPRI SE or BASIC)	ENTERPRISE	
serviceEngineGroups	array	A list of service engine groups objects with specific information and	"name": "hW2RNyYJDPZY", "uuid":"serviceenginegroup- 1172e4a5-8650-40d0-82d2- 78834ff2a3e1", "tenant":"hFBqHxHA5PXs" ,	



NSX Advanced Load Balancer Usage Data				
Data	Туре	Description	Sample	
		potential licensing utilization. This list will be populated only for Avi version >= 22.1.3	"vcdFeatureSetLevel":"ST ANDARD", "coresConsumed":6	
serviceEngineGroups.name	strin g	Annonymiz ed name of the service engine group.	hW2RNyYJDPZY	
serviceEngineGroups.uuid	strin g	A unique identifier for the service engine group.	serviceenginegroup-46beff5e-c9c9-44ec-a0de-7e425d89f2e6	
serviceEngineGroups.tenant	strin g	The NSX Advanced Load Balancer tenant the service engine group is configured within.The value	hFBqHxHA5PXs	



NSX Advanced Load Balancer Usage Data					
Data	Type	Description	Sample		
		is anonymi			
		zed.			
serviceEngineGroups.vcdFeatur	strin	The	STANDARD		
eSetLevel	g	VMware			
		Cloud			
		Director			
		feature set			
		applied to			
		the service			
		engine. This			
		value is			
		applied			
		from			
		VMware			
		Cloud			
		Director			
		directly to			
		the service			
		engine			
		group			
		configuratio			
		n.			
serviceEngineGroups.coresCons	int	The number	6		
umed		of cores			
		being			
		consumed			
		by the			
		service			
		engine			
		group.			



4.2.8 VMware Cloud Director Availability

VMware Cloud Director Availability Data					
Data	Туре	Description	Sample		
vmld	string	A string that uniquely identifies a virtual machine on one vCenter.	vm-85		
type	string	The kind of object that the metering data is about. For the VMware Cloud Director Availability collector this property will always be "ReplicatedVM".	ReplicatedVM		
sourceSite	string	The source replication site. The value is anonymized	18KhuhG/jjUr		
destinationSite	string	The destination replication site. The value is anonymized .	18KhuhG/jjUr		
direction	string	The flow of the replication traffic.	C2C		
year	integer	The current CE year when this data was collected.	2020		
month	integer	The current month (as a number between 1 and 12) when this data was collected.	4		
vmReplicationId	string	The unique replicationId associated with every replication or migration.	C4-3290f914-f7ff- 4d6a-886b- 25132a76b5b1		
isMigration	bool	This value is set to true if this is a migration or false for replication.	true		
time	integer	A millisecond timestamp that specifies when the UsageReport data structure was created. Depending on how long the data collection takes, this might be some time after the metering happened.	1587595905670		



VMware Cloud Director Availability Data			
Data	Туре	Description Sample	
collectionId	integer	An integer serial number that specifies the collection that this data is part of.	5879
productType	string	The name of the product being metered. The value should be "VCAV" for this collector.	VCAV
productId	integer	An integer that specifies the product instance being metered.	8

4.2.9 VMware Cloud Director

VMware Cloud Director Product Data				
Data	Type	Description	Sample	
isActive	integer	Indicates whether the cell is active. 1 means that the cell is active and 0 means its inactive.		
buildNumber	string	Software version of the VMware Cloud Director instance.	3.0.1.13737106- 5c1331dcd	

VMware Cloud Director Collection Data				
Data	Туре	Description	Sample	
vAppld	string	The vAppId which this virtual machine belongs to.	vapp-ecc8152d- b597-48c8-9de8- f2cb1c596280	
productId	integer	An integer that specifies the product instance being metered.	7	



VMware Cloud Director Collection Data			
Data	Туре	Description	Sample
moref	string	A string that uniquely identifies a vm-87 virtual machine on one vCenter.	
type	string	The kind of object that the metering data is about. For the VMware Cloud Director collector, this property should be "VirtualMachine".	
orgld	string	The VMware Cloud Director organization to which this virtual machine belongs.	03d09d1f-1c41- 46ce-be2f- 924d78d356a9
numberOfCpus	integer	The total number of virtual CPUs associated with the virtual machine.	1
vcdVmld	string	A unique ID generated by the VMware Cloud Director server for every virtual machine	vm-86d8e2bc- 38de-45d5-bc19- 8222dfbb0546
memoryMB	integer	Total memory (in MB) associated with the virtual machine.	256
guestOs	string	The operating system of the virtual machine. The value is anonymized .	CVw+KuSNWflc
powerStatus	string	Indicates if the virtual machine is powered on or powered off.	POWERED_OFF
orgVdcld	string	The VMware Cloud Director organization to which this virtual machine belongs.	60b01de8-aca5- 43a7-8c92- 0c55a8eccc71
hardwareVersion	integer	The current hardware version of the virtual machine.	7



VMware Cloud Director Collection Data				
Data	Туре	Description	Sample	
collectionId	integer	An integer serial number that specifies the collection that this data is part of.	5891	
productType	string	The name of the product being metered. The value should always be "VCD" for this collector.	VCD	
vcUuid	string	A unique identifier for the vCenter that defines the moref of the virtual machines being metered.	4b2183fe-76d7- 4218-9d83- 7d0aaff2fd3b	
time	integer	A millisecond timestamp that specifies when the UsageReport data structure was created. Depending on how long the data collection takes, this may be some time after the metering happened.	1587595911912	

VMware Clou	VMware Cloud Director CMR Data			
Data	Туре	Description	Sample	
moref	string	A string that uniquely identifies a virtual vm-67 machine on one vCenter.		
type	string	Indicates the object type. The value should be VirtualMachine "VirtualMachine".		
vcUuid	string	A unique identifier for the vCenter that defines the moref of the virtual machine being metered.	4b2183fe-76d7- 4218-9d83- 7d0aaff2fd3b	
productType	strong	The name of the product being metered. The name for this collector should always be "VCD".	VCD	



productId	integer	An integer that specifies the product instance 8 being metered.	
time	integer	A millisecond timestamp - the time at which the customer label event was calculated. The calculation happens once an hour. VMware Cloud Director collector will not send an event if the customer label relationship has not been changed since the last collection. The customer label event is sent after the start of all virtual machines, so the event stream might contain two consecutive events for the presence of a customer label relationship.	1457594311912
ruleName	string	The name of the customer label. If there are customer labels configured and no particular virtual machine is associated to any of them, events will still be generated. The default value for such virtual machines is "n/a". When a virtual machine is no longer associated with a label, it will be associated with the default label as well.	Customer-123

4.2.10 VMware Aria Operations for Networks

VMware Aria Operations for Networks Collection Data				
Data	Type	Description	Sample	
type	string	The kind of object that the metering data is about. For the VMware Aria Operations for Networks, the value of this	VirtualMachine	



VMware Aria Operations for Networks Collection Data				
Data	Туре	Description	Sample	
		property should be "VirtualMachine".		
moref	string	A string that uniquely identifies a virtual machine on one vCenter. For virtual machines, the string must start with "vm".	vm-85	
vcUuid	string	vCenter UUID.	Of2b6fbc-029e-4138-a9af- 921b30d4c299	
vcld	integer	An integer that specifies the vCloud Usage Meter productId for the vCenter that defines the moref. If that vCenter is not being metered, then this property will be absent.	1	
memory	integer	Total memory (in MB) associated with the virtual machine.	4096	
cpus	integer	Total number of virtual CPUs associated with the virtual machine.	2	
collectionId	integer	An integer serial number that specifies the collection that this data is part of.	5881	
productType	string	The name of the product being metered. For this collector, the property value should always be "VRNI".	VRNI	



VMware Aria Operations for Networks Collection Data				
Data	Туре	Description	Sample	
productId	integer	Per vCloud Usage Meter unique product id, displayed on UI product page.	7	
uuid	string	An alternative identifier that consists of the VMware Aria Operations for Networks vCenter entity ID (length varies) and a moref of the VM being metered.	vrni:10000:8:1419036932:vm- 112 For unknown value: vrni:unknown:vm-1	
time	integer	The Unix timestamp of when the record was collected.	1587595911912	
stream	string	The name of the data collection.	VRNI_Collection	

VMware Aria Operations for Networks Product Data

Data	Type	Description	Sample
lastChanged	integer	A millisecond timestamp that specifies when the product data structure was created.	1584561143442
active	bool	Indicates whether a product instance is active or not.	True



licenses	array	A list of licenses	[{
		and their details.	"evaluation": false, "licenseKey":
			"00000-00000-00000-00000",
			"deploymentType": "onprem",
			"expired": false, "deleted":
			false, "capacityType": "CPU",
			"serviceTag": "CJBOEgdEUTRXWldK",
			"numberOfSockets": 64,
			"licenseEdition": "ENTERPRISE",
			"productName": "VMware Aria
			Operations for Networks",
			"suspended": false
			}]

licenses.evaluation	bool	Indicates whether the product uses evaluation license.	false
licences.licenseKey	string	VMware license key for the product.	00000-00000- 00000-00000- 00000
licenses.deploymentType	string	Indicates the product deployment type.	onprem
licences.expired	bool	Indicates if the license is expired.	false
licenses.deleted	bool	Indicates if the license was deleted.	false
licenses.capacityType	string	Indicates how the license use is determined.	CPU
licenses.serviceTag	string	The service tag of the product.	CJBOEgdEUTRXWIdK



licenses.licenseEdition	string	Indicates the VMware Aria Operations for Networks edition.Can be one of two values: "ADVANCED" or "ENTERPRISE".	ENTERPRISE
licenses.numberOfSockets	integer	Indicates the number of sockets VMware Aria Operations for Networks is licensed for.	64
licenses.productName	string	The product name for the license.	VMware Aria Operations for Networks
licenses.suspended	bool	Indicates if the license is suspended or not.	false
licenseEdition	string	License edition of the VMware Aria Operations for Networks instance.	ADVANCED
licenseKey	string	License key of the VMware Aria Operations for Networks instance.	00000-00000- 00000-00000- 00000
version	string	The software version of the VMware Aria Operations for Networks.	5.0.0
apiVersion	string	The REST API version that is supported by the VMware Aria Operations for Networks instance.	1.1.3
port	integer	The port number of the VMware Aria Operations for Networks instance.	443



host	string	The anonymized name of the hos.	p+k0nrBG
forgotten	bool	Indicates whether the product is marked as deleted or not.	false

authorizationType	string	The authorization type used for authentication to this	LOCAL
		VMware Aria Operations for Networks. This can be	
		LOCAL, LDAP or vIDM.	

domainLDAP	string	The anonymized LDAP domain name.	tSt4LouXfa+c
metered	bool	Indicates whether the product is ready for metering.	true
id	integer	An integer that specifies the id of the metered product instance in vCloud Usage Meter.	24
productType	string	The type of the product. For this collector, the value should always be "VRNI".	VRNI
time	integer	The Unix timestamp of when the record was created.	1584659539040
who	string	For this collector, the value is always "Product".	Product

4.2.11 VMware Aria Operations

VMware Aria Operations Collection Data					
Data	Type	Description	Sample		
productId	integer	An integer that specifies the product instance being metered.	4		



VMware Aria Operations Collection Data					
Data	Туре	Description	Sample		
moref	string	A string that uniquely identifies a virtual machine on one vCenter.	vm-28		
time	integer	A millisecond timestamp that specifies when the UsageReport data structure was created. Depending on how long the data collection takes, this might be some time after the metering happened.	1587595912971		
type	string	The kind of object that the metering data is about. For the VMware Aria Operations collector, this property value should be "VirtualMachine".	VirtualMachine		
collectionId	integer	An integer serial number that specifies the collection that this data is part of.	5889		
productType	string	The name of the product being metered. For this collector, the value should always be "VROPS".	VROPS		
vcld	string	vCenter Product ID. Populated only if VMware Aria Operations is registered as an extension in the vCenter and vCenter is added for metering in the vCloud Usage Meter web application.	3		
vcUuid	string	A unique identifier for the vCenter that defines the moref of the VM being metered.	9ae55b14- d47c-4211- b356- 51ec224baf20		
licenseEdition	string	The license edition. It is detected in the following order: ENTERPRISE>ADVANCED>STANDARD.	ENTERPRISE		



4.2.12 VMware Aria Automation 7.X

VMware Aria Automation Product Data				
Data	Туре	Description	Sample	
id	integer	The id of the product in the vCloud Usage Meter web application.	3	
version	string	The version of the VMware Aria Automation instance.	7.0	
licenses	string[]	The license details for the product which is being metered.	[{ "serialKeys": ["00000- 00000-00000-00000- 00000"], "restrictions": [{ "name": "VMware vCloud Suite Enterprise", "version": "7.0", "editionKey": "vac.vcloudEnterprise" }] }]	
licenses.expiration	string	The date when the license expires.	2020-09- 09T00:48:40.023Z	
licenses.serialKeys	string[]	The serial license keys of	["00000-00000-00000-	



VMware Aria Automation Product Data				
Data	Туре	Description	Sample	
		the metered product.		
licenses.restrictions	string	A list of additional license information.	[{ "name": "VMware vCloud Suite Enterprise", "version": "7.0", "editionKey": "vac.vcloudEnterprise" }]	
licenses.restrictions.name	string	The licensing product name. The same product name is displayed in the VMware Aria Automation appliance management console.	VMware vCloud Suite Enterprise	
licenses.restrictions.version	string	The licensing product version. The same product version is displayed in the VMware Aria Automation appliance management console.	7.0	



VMware Aria Automation Product Data				
Data	Type	Description	Sample	
licenses.restrictions.editionKey	string	The key of the license edition.	vac.vcloudEnterprise	

VMware Aria	VMware Aria Automation Collection Data				
Data	Туре	Description	Sample		
type	string	The kind of object that the metering data is about. For the VMware Aria Automation collector, the value of this property should be "VMCount".	VMCount		
vmCount	integer	The number of the managed virtual machines in a VMware Aria Automation instance.	100		
time	integer	The Unix timestamp of when the record was collected.	1585266130714		
collectionId	integer	An integer serial number that specifies the collection that this data is part of.	1		
productType	string	The name of the product being metered.	VRA		
productId	integer	An integer that specifies the product instance being metered.	1		

4.2.13 VMware Aria Automation 8.X

VMware Aria Automation 8.X Product Data					
Data	Туре	Description	Sample		
productType	String	The type of VMware product. For this collector, the property	VRA-VRS		



VMware Aria Automation 8.X Product Data			
Data	Туре	Description	Sample
		value should be "VRA- VRS".	
Id	Number	The number of the VMware Aria Automation instance that appears in the vCloud Usage Meter web application.	1
version	string	The version of VMware Aria Automation instance	8.7.0
licenses	string[]	The license details for the product which is being metered.	<pre>{ "key": "00000-00000- 00000-00000-00000", "description": "VMware Aria Suite 2018 Enterprise", "type": "AriaSuite" "status": "ACTIVE", "expiredOn": "never", "expired": false }</pre>
license.key	string	The serial license key of the metered product.	00000-00000-00000-
license.description	string	The license name.	VMware Aria Suite Lifecycle 2018 Enterprise
license.type	string	The license type.	VMware Aria Suite Lifecycle



VMware Aria Automation 8.X Product Data			
Data	Туре	Description	Sample
licesne.status	string	The status of the license.	Active
License.expiredOn	String	States if the license is set to expire.	Never
license.expired	boolean	States if the license has expired or not.	false

VMware Aria Automation 8.X Collection Data			
Data	Туре	Description Sample	
type	string	The kind of object that the metering data is about. For the VMwar Aria Automationcollector, the property value should be " VirtualMachine".	
instanceUuid	string	Virtual machine's instance UUID for vCenter Server. Otherwise, it is the UUID, VMware Aria Automation identifies a virtual machine.	5001998d-5980- efd3-c5fb- 787138abad9f
endpointType	string	The cloud platform the virtual machine is running on. e.g., vSphere,GSP, AWS, machine, Azure. It's the value provided by VMware Aria Automation untouched. If it's not available, the value is unknown.	
vcUuid	string	vCenter Server's instance UUID. Only applicable to virtual machines running in vCenter.	4c676f09-3926- 4ac4-88fc- d66cef36f1b6
vcld	number	The vCenter Server ID generated by vCloud Usage Meter. When the endpoint is not vCenter Server, the value is "null".	1



4.3 Data Hashing

Starting with vCloud Usage Meter 4.5, providers can decide what type of data anonymization to apply to their collected data. Under the Settings tab in the vCloud Usage Meter Web application, there are three data hashing options available to providers. The options are:

- Anonymizable fields are Hashed The selected product data will be hashed in the usage reports.
- Anonymizable fields are Redacted The selected product data will be replaced by a string provided by the provider.
- No Hashing The selected product data will not be anonymized and appears in plain text in the usage reports.

4.4 VMware Cloud Services Console Report

Usage reports in VMware Cloud Services Console have some fields anonymized. The actual values of these fields are not required but unique anonymization is for reporting purposes. Data that is anonymized is marked in **bold** in the Field value of the table below.

Report	Field	Sample
Monthly	Product	VMware Cloud Foundation
Usage Units		
Monthly	Hostname,	a4b155e772ade626f5ecbe3eadf1d1c73a4f2c01
Usage Units	anonymized	
Monthly	Version	6.5.0
Usage Units		
Monthly	VcUUld	abc1cf6c-5cd4-4f0b-9f60-ff38f928adaa
Usage Units		
Monthly	Unit of Measure	CORE
Usage Units		
Monthly	Units to be Reported	1857
Usage Units		



Report	Field	Sample
Monthly Usage Units	Product	VMware Cloud Foundation
Monthly Usage Units	Hostname, anonymized	a4b155e772ade626f5ecbe3eadf1d1c73a4f2c01
Monthly Usage Units	Version	6.5.0
Customer Monthly Usage	Customer Label	Customer-123
Customer Monthly Usage	Product	VMware Cloud Foundation
Customer Monthly Usage	Unit of Measure	CORE
Customer Monthly Usage	Units to be Reported	460
Virtual Machine History	Name, anonymized	48fbd593c85389a38e2d7001946220bc9016260
Virtual Machine History	Guest Hostname, anonymized	746ce9f9bda9b9a9da2c4ea69b7caef0895358d
Virtual Machine History	vCenter	1



Report	Field	Sample
Monthly Usage Units	Product	VMware Cloud Foundation
Monthly Usage Units	Hostname, anonymized	a4b155e772ade626f5ecbe3eadf1d1c73a4f2c01
Monthly Usage Units	Version	6.5.0
Virtual Machine History	VCHostName, anonymized	94b155e772ade626f5ecbe3eadf1d1c73a4f2c01
Virtual Machine History	МО	173
Virtual Machine History	Instance UUID	5003d4c6-eb7a-c0b2-6362-965cd42b570b
Virtual Machine History	From	2024-05-21_18-00-00.096361_00-00
Virtual Machine History	То	2024-05-21_18-00-00.096361_00-00
Virtual Machine History	Interval	4.25
Virtual Machine History	Power State	On



Report	Field	Sample
Monthly Usage Units	Product	VMware Cloud Foundation
Monthly Usage Units	Hostname, anonymized	a4b155e772ade626f5ecbe3eadf1d1c73a4f2c01
Monthly Usage Units	Version	6.5.0
Virtual Machine History	RAM (MB)	24567
Virtual Machine History	Res (MB)	8192
Virtual Machine History	Billing (MB)	12288
Virtual Machine History	MB-Hours	6553131
Virtual Machine History	ESXi HostName, anonymized	4cbea9f47001057d924395fec8adc6b37834d50
Virtual Machine History	vSphere License	VMware vSphere 6 Enterprise Plus
Virtual Machine History	VMware Aria Operations	ADVANCED



Report	Field	Sample
Monthly Usage Units	Product	VMware Cloud Foundation
Monthly Usage Units	Hostname, anonymized	a4b155e772ade626f5ecbe3eadf1d1c73a4f2c01
Monthly Usage Units	Version	6.5.0
Virtual Machine History	NSX	BASIC
Virtual Machine History	NsxFInt	1
Virtual Machine History	VMware Aria Operations for Networks	ADVANCED
Virtual Machine History	VMware Cloud Director	FALSE
Virtual Machine History	vmType	OTHER
Virtual Machine History	VMware Cloud Foundation	STANDARD
Virtual Machine History	CustomerLabel	Customer-123
Cluster History Report	vCenter	8



Report	Field	Sample
Monthly	Product	VMware Cloud Foundation
Usage Units		
Monthly	Hostname,	a4b155e772ade626f5ecbe3eadf1d1c73a4f2c01
Usage Units	anonymized	
Monthly	Version	6.5.0
Usage Units		
Cluster History	VCHostName,	iK1e+qvMo5ys
Report	anonymized	
Cluster History	vSAN ClusterName,	yxFVWWo2oRGw
Report	anonymized	
Cluster History	vSAN License	ENT
Report		
Cluster History	vSAN Used (MB)	30312
Report		
Cluster History	From	2021-12-15T14:23:35.000
Report		
Cluster History	То	2021-12-15T17:51:03.504
Report		
Cluster History	Interval (hours)	3.5
Report		
Cluster History	vSANFint	15
Report		

5. Contact

For additional questions, please contact the VMware cloud service provider point of contact or open a support request at support.broadcom.com



