VMware Cloud Foundation Usage Meter

Data Privacy and Sharing Guidelines

VMware Cloud Foundation Usage Meter 9.x

Version – 1.0

Dated: May 2025

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

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1. Scope

This document is for VMware Cloud Service Providers. It primarily addresses Frequently Asked Questions (FAQ) about the VMware Cloud Foundation usage meter 9.x data sharing policy and provides details about the data sent from the partner to VMware by Broadcom. This document also provides information about the VMware Cloud Foundation Cloud console and gives details about the reports that it generates. For more details about these products see the VCSP Portal site.

VMware Cloud Foundation usage meter is an on-premises virtual appliance that Cloud Service Providers partners use to facilitate license-based usage reporting. VMware Cloud Foundation Business Services console is a free cloud service offering that supports VMware Cloud Foundation usage meter for automatic reporting and data retention. Partners utilize VMware Cloud Foundation Business Services console to scale-out their metering deployment and simplify their usage reporting each month.

VMware Cloud Foundation Business Services console enables providers to register VMware Cloud Foundation usage meters appliances, track the usage and download the usage report, more details can be found at VCF usage meter documentation.

2. Components

VMware Cloud Foundation usage meter provides metering of VMware Cloud Foundation, NSX, vSAN, VCF Operations, VCF Automations, VCF Operations for Networks, VMware Cloud Director, Cloud Director Availability, VMware Live Recovery (Site Recovery Manager), Tanzu Kubernetes Grid Service. For the current list of VMware products and versions that VMware Cloud Foundation usage meter can meter, see the VMware Product Interoperability Matrixes.

2.1 VMware Cloud Foundation usage meter 9.x

VMware Cloud Foundation usage meter 9.x is the next evolution in metering and billing. In VMware Cloud Foundation usage meter 9.x, the data is collected as before, but the raw data is forwarded to VMware Cloud Foundation Business 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 VMware Cloud Foundation usage meter prior versions, it was incumbent upon the provider to ensure they were keeping the VMware Cloud Foundation usage meter and related data for three years. With VMware Cloud Foundation usage meter 4.x or later, the data is now being stored within VMware Cloud Foundation Business Services console and maintained for the required period.

Reports for past months across all VMware Cloud Foundation usage meter instances can be requested via a support request on VMware Cloud Foundation Business Services console.

2.2 VMware Cloud Foundation Business Services console

VMware Cloud Foundation Business Services console is a VMware cloud service that automates monthly reporting, including end-user data, to the Broadcom billing systems, eliminating the need of manual reporting. It aggregates reports and data from VMware Cloud Foundation usage meter instances. Reports for VMware Cloud Foundation usage meter 9.x data can be viewed in the VMware Cloud Foundation Business Services console as they are sent to the Broadcom billing systems on a daily basis. It's critical that Cloud Services Providers maintain VMware Cloud Foundation 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 Foundation Business Services console.

Q. What data is transmitted?

A. An installation confirmation email, report data including monthly usage, anonymized customer usage, VM history reports. VMware Cloud Foundation usage meter 9.x and above 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 https://www.broadcom.com/company/legal/terms-of-use

Q. I have chosen <u>not</u> 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 VMware Cloud Foundation usage meter instances online. There is no option for any manual reporting. If you refuse to deploy and manage VMware Cloud Foundation 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 collected, however 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 VMware Cloud Foundation usage meter 9.x, see [this section](#).

Q. Is Personally Identifiable Information (PII) information present in the data transmitted to VMware?

A. No, there is no Personally Identifiable Information (PII) present or collected in the VCF usage meter.

Q. How is the data anonymized?

A. In VMware Cloud Foundation usage meter 9.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 VMware Cloud Foundation usage meter and VMware Cloud Foundation Business Services console?

A. The connection is secured by the following ciphers:

https://downloads.bouncycastle.org/fips-java/docs/BC-FJA-(D)TLSUserGuide-2.0.19.pdf

Appendix C – Supported Cipher Suites

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 VMware Cloud Foundation usage meter 9.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 VMware Cloud Foundation 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 eapi.broadcom.com

Q. In what format is data sent to VMware?

A. For VMware Cloud Foundation usage meter 9.x, data is sent in a compressed text format that is encrypted for transmission.

Q. How frequently is data sent to VMware?

A. For VMware Cloud Foundation usage meter 9.x, data is collected and sent on an hourly basis.

Q. How are reports transmitted to VMware?

A. VMware Cloud Foundation usage meter 9.x transmits data via HTTPS only.

Q. Is an email server required?

A. VMware Cloud Foundation usage meter 9.x does not require SMTP services.

3.4 Operational

Q Can I turn off transmitting data to VMware?

A. VMware Cloud Foundation usage meter does not offer a control to turn off data transmission.

Q. What if VMware Cloud Foundation usage meter does not have access to an email server that has Internet connectivity?

A. For VMware Cloud Foundation usage meter 9.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 Foundation Business Services console. If it is not re-established, the service provider will need to contact VMware point of contact for further actions.

Q. Can reports continue to be generated from the local usage meter?

A. When using VMware Cloud Foundation usage meter 9.x, usage reports are generated on VMware Cloud Foundation Business Services console. VMware Cloud Foundation usage meter 9.x is a collection engine only and all reporting logic has been moved to VMware Cloud Foundation Business Services console. There is no provision to generate usage reports in VMware Cloud Foundation usage meter 4.x.

4.1 VMware Cloud Foundation usage meter disclosure

The following disclosure is shown when first logging into VMware Cloud Foundation usage meter 9.x:

VMware Cloud Foundation usage meter 9.x works along with VMware Cloud Foundation Business Services console. UM 9.x periodically sends metering data to VMware Cloud Foundation Business Services console for report processing. You must login to VMware Cloud Foundation Business Services console to generate reports.

By installing this version of VMware Cloud Foundation usage meter, you acknowledge that you will automatically send data to VMware. This data -

1) Confirms your installation of VMware Cloud Foundation usage meter 9.x, and

2) Includes metering data as described in program rules
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.broadcom.com/company/legal/terms-of-use

4.2 Report Data Fields for VMware Cloud Foundation usage meter 9.x

These tables list the collected data by the VMware Cloud Foundation usage meter 9.x Agent that VMware Cloud Foundation Business Services console receives.

VMware Cloud Foundation 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 VMware Cloud Foundation usage meter appliance in addition to product specific data detailed in the product sections below.

Generic Product Data			
Data	**Type**	**Description**	**Sample**
active	bool	Represents whether the product instance is active or not.	true
port	integer	Port of the endpoint. For VCF 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 VCF 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

Generic Product Data

Data	Type	Description	Sample
lastChanged	long	The unix timestamp of when the record was last updated.	1587595762016
who	string	Collector type.	Product
version	string	Product version.	2.4.1
id	integer	The ID of the product in the VMware Cloud Foundation usage meter web application.	2
time	long	The Unix timestamp of when the record was created.	1585266130714

The following data is sent by VMware Cloud Foundation usage meter appliance in addition to the collected data and is used for system purposes.

VMware Cloud Foundation usage meter Metadata

Data	Sample
UM ID	3f8fbe8c-4683-43e0-9a6f-76ac4041cb2c
UM version	9.0.0.0
Checksum	e9aa96e83dd17da97aeed8c725e1881f

4.2.1 vCenter

vCenter Virtual Machine Data			
Data	**Type**	**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
vcId	integer	An integer that specifies the VMware Cloud Foundation usage meter productId for the vCenter defined behind the moref. For the vCenter collector, this is always the same as the productId.	1
collectionId	integer	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	integer	An integer that specifies the product instance being metered. For the vCenter collector, productId is always the same as vcId.	1
time	long	A millisecond timestamp that specifies when the usage report data structure was created. Depending on how long the data	1587595907395

vCenter Virtual Machine Data			
Data	**Type**	**Description**	**Sample**
		collection takes, this might be some time after the metering happened.	
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 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.	poll
name	string	The **anonymized** name of the VM.	OFX0UdmRW6yD

vCenter Virtual Machine Data			
Data	**Type**	**Description**	**Sample**
cpuReservation	integer	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 virtual machines and k8s-managed virtual machines.	For Service VM such as Supervisor VM this value is com.vmware.vim.eam and for TKG Service VMs it is com.vmware.vcenter.wcp
instanceUuid	string	The virtual machine's unique instance/bios uuid.	50160db8-07c8-160a-d660-f8a9f1cf8658
memorySizeMB	integer	The allocated memory size in MB to a VM.	512
memoryReservation	integer	The guest memory reservation of a virtual machine in MB.	512
numCpu	integer	Indicates the number of CPU cores allocated to a virtual machine.	1

vCenter Virtual Machine Data			
Data	**Type**	**Description**	**Sample**
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. 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 a virtual machine is resumed from a suspended state.	2020-04-07T17:57:05.466391Z
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	integer	The total times the virtual machine has been suspended since it was initially powered on. This time	0

vCenter Virtual Machine Data			
Data	**Type**	**Description**	**Sample**
		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.	
ipAddress	string	The **anonymized** IP address of a vCenter VM**.**	aKlN8U4uSaqw
productName	string	The vCenter variable summary.config.product.name. Virtual machines with product name VMware Cloud Foundation 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 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.	resgroup-8

vCenter Virtual Machine Data			
Data	**Type**	**Description**	**Sample**
cloudId	string	Cloud ID.	69e39f38-dbcd-423f-bbb5-88f141171949
numCoresPerSocket	integer	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	**Type**	**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
vcId	integer	An integer that specifies the VMware Cloud Foundation 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.	5883

vCenter Host Data			
Data	**Type**	**Description**	**Sample**
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, productId is always the same as vcId.	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 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	poll

vCenter Host Data			
Data	Type	Description	Sample
		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
licenseProductName	string	The host product license name.	VMware ESX Server

vCenter Host Data			
Data	**Type**	**Description**	**Sample**
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	**Type**	**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
vcId	integer	An integer that specifies the vCloud Usage Meter productId for the vCenter that	1

vCenter License Data			
Data	**Type**	**Description**	**Sample**
		defines the moref. For the vCenter collector, 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	The name of the metered product: always "vCenter" for this collector.	vCenter
productId	integer	An integer that specifies the product instance being metered. For the vCenter collector, productId is always the same as vcId.	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.	00000-00000-00000-00000-00000
licenseName	string	The name of the license.	VMware vSphere 6 Enterprise Plus
licenseEdition	string	The name of the license edition.	esx.enterprisePlus.cpuPackage
total	integer	License count.	64
productName	string	Product name that is using this license.	VMware ESX Server

vCenter License Data			
Data	**Type**	**Description**	**Sample**
update	bool	If this property is true, then this object was generated in response to a com.vmware.license.AssignLicenseEvent. If false, then this object results from querying all vCenter licenses.	false

vCenter Customer Labelling Data			
Data	**Type**	**Description**	**Sample**
moref	string	A string that uniquely identifies a virtual machine on one vCenter.	1
vcId	integer	An integer that specifies the VMware Cloud Foundation 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	1587594567904

		calculated. The calculation occurs 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/VMware Live Recovery/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

vCenter /vSAN/VMware Live Recovery/VMware Cloud Foundation Product Data			
Data	**Type**	**Description**	**Sample**
extSSOport	integer	SSO port number.	7444
vc_instance_uuid	string	vCenter instance UUID.	0f2b6fbc-029e-4138-a9af-921b30d4c299
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 VMware Live Recovery	true

vCenter /vSAN/VMware Live Recovery/VMware Cloud Foundation Product Data			
Data	**Type**	**Description**	**Sample**
		metering is turned on or off from the vCloud Usage Meter web application.	
srmEnabled	bool	Indicates whether this vCenter has any VMware Live Recovery extensions.	true

srmLicenses	object[]	An array of VMware Live Recovery licenses objects presented in the Virtual center.	[
			
			    {
			
			    "product": "VMware vCenter VMware Live Recovery",
			
			    "productVersion":"8.1",
			
			    "edition":"srm.enterprise.vm",
			
			    "total": 2000,
			
			    "name": "vCenter VMware Live Recovery Enterprise",
			
			    "key": "00000-00000-00000-00000-00000"
			
			    }
			
			    ]

vCenter /vSAN/VMware Live Recovery/VMware Cloud Foundation Product Data			
Data	**Type**	**Description**	**Sample**
srmLicenses.product	string	The name of the metered product, for example, VMware vCenter VMware Live Recovery.	VMware vCenter VMware Live Recovery
srmLicenses.productVersion	string	VMware Live Recovery product version.	8.1
srmLicenses.edition	string	Type of the VMware Live Recovery license like Enterprise/Advanced, etc.	srm.enterprise.vm
srmLicenses.total	integer	Capacity of virtual machines specific to license.	2000
srmLicenses.name	string	VMware Live Recovery product license name.	vCenter VMware Live Recovery Enterprise
srmLicenses.key	string	VMware Live Recovery product license key.	00000-00000-00000-00000-00000
vsanEnabled	bool	Indicates whether this vCenter server cluster	true

vCenter /vSAN/VMware Live Recovery/VMware Cloud Foundation Product Data			
Data	**Type**	**Description**	**Sample**
		object has vSAN enabled.	
vsanClusterCount	integer	The number of vSAN clusters on this vCenter.	1
vsanVersions	array[]	A set of distinct vSAN version numbers.	["7.0.0"]
totalCapacityBytes	Integer	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, and the overhead data.	643376873472

vCenter Customer Labelling Data			
Data	**Type**	**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 VMware Cloud Foundation 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 vSAN

vSAN Cluster Collection Data			
Data	**Type**	**Description**	**Sample**
time	long	The unix timestamp of when the record was collected.	1585266130714
collectionId	integer	A unique identifier for each collection.	176586

vSAN Cluster Collection Data			
Data	**Type**	**Description**	**Sample**
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.	0UfypLEAUZCy
edition	string	The license edition. It can be: STANDARD, ADVANCE, ENTERPRISE, DESKTOP or ROBO.	STANDARD
licenseKey	string	The license key associated with the cluster.	00000-00000-00000-00000-00000
productVersion	string	The vSAN version.	7.0.0

vSAN Cluster Collection Data			
Data	Type	Description	Sample
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 Collection Data			
Data	Type	Description	Sample
productId	integer	A unique identifier per product. Add-on collectors do not have individual productIds. They use the vCenter productId.	3
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

vSAN VM Collection Data			
Data	**Type**	**Description**	**Sample**
type	string	The object type of Moref i.e., VirtualMachine.	VirtualMachine
collectionId	integer	A unique identifier for every collection.	9
productType	string	A unique identifier for each product being metered. It is vCenter here.	vCenter
vcId	integer	An integer that specifies the VMware Cloud Foundation usage meter productId for the vCenter that defines the moref. For the vCenter collector, this is always the same as productId.	3

4.2.3 VMware Live Recovery

VMware Live Recovery Collection Data			
Data	**Type**	**Description**	**Sample**
collectionId	integer	A unique identifier for each collection.	21
lastSrmCollectionTimestamp	integer	A unique identifier for the last collection for VMware Live Recovery 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
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 VMware Live Recovery that is present in the vCenter collector. The primary	lZiExIBcMzTy

VMware Live Recovery Collection Data			
Data	**Type**	**Description**	**Sample**
		VMware Live Recovery site where the virtual machine gets protected. This value is **anonymized.**	
productId	string	A unique identifier for each product. Add-on collectors do not have an individual productId. The productId is the same as the vCenter productId.	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
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

VMware Live Recovery Collection Data			
Data	**Type**	**Description**	**Sample**
protectionState	string	An identifier of the protection state of this protected virtual machine.	READY
secondarySiteName	string	The secondary site name of VMware Live Recovery present in the target vCenter collector. The secondary/target VMware Live Recovery site is where the virtual machine gets replicated. This value is **anonymized.**	mZnAX/826tx/
secondarySiteVcProductId	integer	The secondary/target VMware Live Recovery remote site VCInfra product ID.	-1
secondarySiteVcUuid	string	The secondary/target VMware Live Recovery site's vCenter Server instance uuid.	6b3a5070-4c6e-407a-b264-ca7647b25d1b
time	integer	The Unix timestamp of when the record was collected.	1585266130714
type	string	The object type of Moref i.e., VirtualMachine.	VirtualMachine

VMware Live Recovery Collection Data			
Data	Type	Description	Sample
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_Collector.	VcAddon_SRM_Collector

4.2.4 NSX-T

NSX-T Product Data			
Data	**Type**	**Description**	**Sample**
version	string	The software version of the NSX-T instance.	2.4.1
vcHosts	string[]	An array of strings that contains the set of vCenter hosts running virtual machines using NSX-T features. The strings are **anonymized**.	[73D2CF9D7CF013078AAD3D0BF29EC3EBE18168005549E6E7B9E48AE9EE49756D]
licenses	string	The NSX-T license details returned by the product. The value is in string format.	{"description":"NSX Data Center Evaluation","licenseKey":"00000-00000-00000-00000-00000","isEval":true,"capacityType":"CPU","quantity":0,"isExpired":false,"expiry":1007136262,"isMh":false}
computeManagerHostnames	string[]	An array of hostnames. The values of the strings are **anonymized**.	["wSt4MouWfa+v"]
licensesData	json	The NSX-T license details returned by the product. The	[{"description":"NSX Data Center Evaluation","licenseKey":"00000-00000-00000-00000-

NSX-T Product Data

Data	Type	Description	Sample
		values are in json format.	00000","isEval":true,"capacityType":"CPU","quantity":0,"isExpired":false,"expiry":1007136262,"isMh":false}]
instanceUuid	string	Instance UUID of NSX-T instance.	15319808-fbc7-71aa-3c2f-89654f16ba43

NSX-T VM Data

Data	Type	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
moref	string	A string that uniquely identifies a virtual machine on one vCenter. If this property is specified, then the vcId property is required.	vm-35
vcId	integer	An integer that specifies the VMware Cloud Foundation usage meter productId for the vCenter that defines the moref. If the moref property is specified, then this property is required.	3
nsxFeatures	string[]	An array of strings that specify the set of NSX-T features used by the specified virtual machine. The	BASE, DFW

NSX-T VM Data			
Data	Type	Description	Sample
		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.	
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, productId should always be the same as the vcId.	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-bbb5-88f141171949

4.2.4.1 VMware vDefend Firewall

NSX-T Transport Nodes Data			
Data	**Type**	**Description**	**Sample**
type	string	The kind of Transport Node that the metering data is about.	Enum: ["ESX", "HOST_BAREMETAL", "EDGE_NODE", "EDGE_BAREMETAL"]
uuid	string	A string that uniquely identifies a Host/VM on one vCenter. Applicable only for Hosts and VMs.	a86b44e4-0f66-417a-ae92-3f0130598b1c
nsxNodeId	string	A unique identifier of the object in NSX-T inventory.	1f2243bc-fe5b-474f-802d-5604e3ae7b40
vcUuid	string	A unique identifier for the vCenter that hosts the HostSystem or VM being metered.	2c02b726-55f9-4083-a973-956959644f63
moref	string	A string that uniquely identifies an object on one vCenter. If this property is present, then the vcUuid property is required.	host-31
clusterId	string	A string that uniquely identifies a cluster on one vCenter. If this property is present, then the vcUuid property is required.	domain-c8
maintenanceMode	string	Transport node maintenance mode desired state.	DISABLED

4.2.4.1 VMware vDefend Firewall

NSX-T Transport Nodes Data			
Data	**Type**	**Description**	**Sample**
cpuCores	integer	Number of CPU cores on the system.	2
cpuSockets	integer	Number of CPU sockets on the system.	2
features	string[]	An array of strings that specify the set of NSX-T features used by the specified Transport Node (Host or Edge).	enum: ["DISTRIBUTED_IPFIX", "DISTRIBUTED_FIREWALL", "DISTRIBUTED_IDPS", "DISTRIBUTED_MPS", "GATEWAY_FIREWALL", "GATEWAY_TLS", "GATEWAY_IDPS", "GATEWAY_MPS"]
collectionId	integer	An integer serial number that specifies the collection that this data is part of.	3
productType	string	The name of the product being metered: always 'NSX-T' for this collector	NSX-T
productId	integer	An integer the product instance being metered.	2
time	integer	A millisecond timestamp that specifies when the UsageReport data structure was created. Depending	1587595912372

NSX-T Transport Nodes Data			
Data	Type	Description	Sample
		on how long the data collection takes, this may be some time after the metering actually happened.	

4.2.5 NSX-V

NSX-V Data			
Data	**Type**	**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
vcId	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 takes, this might be some time after the metering happened.	1587595912372

NSX-V Product Data			
Data	**Type**	**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
vcId	integer	An integer that specifies the vCloud Usage Meter productId for the vCenter of this NSX-V.	1

4.2.6 VMware Avi Load Balancer

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

VMware Avi Load Balancer Usage Data			
Data	**Type**	**Description**	**Sample**
productId	integer	An integer that specifies the product instance being metered.	1
category	string	The kind of collector that the metering data is for. The value for this collector	NSXALB

VMware Avi Load Balancer Usage Data			
Data	Type	Description	Sample
		is always "NSXALB".	
time	int	A millisecond timestamp that specifies when the data was collected.	1672531200000
clusterUuid	string	A unique identifier of the VMware Avi Load Balancer Controller license that is being reported on.	cluster-bc5be539-2bdd-4ff3-adc9-e4d9917fc29c
clusterVersion	string	Current software version installed on the VMware Avi Load	22.1.3

VMware Avi Load Balancer Usage Data			
Data	Type	Description	Sample
		Balancer Controller.	
totalLicensedCores	int	Total cores currently licensed on the VMware Avi Load Balancer controller.	170
totalCoresConsumed	int	Total cores currently being consumed by service engines on the VMware Avi Load Balancer controller.	10
licenseTier	string	License tier VMware Avi Load Balancer Controller is running under.	ENTERPRISE

VMware Avi Load Balancer Usage Data			
Data	**Type**	**Description**	**Sample**
		(ENTERPRISE or BASIC)	
serviceEngineGroups	array	A list of service engine groups objects with specific information and potential licensing utilization. This list will be populated only for Avi version >= 22.1.3	"name": "hW2RNyYJDPZY", "uuid":"serviceenginegroup-1172e4a5-8650-40d0-82d2-78834ff2a3e1", "tenant":"hFBqHxHA5PXs", "vcdFeatureSetLevel":"STANDARD", "coresConsumed":6
serviceEngineGroups.name	string	**Annonymized** name of the service engine group.	hW2RNyYJDPZY
serviceEngineGroups.uuid	string	A unique identifier for the service engine group.	serviceenginegroup-46beff5e-c9c9-44ec-a0de-7e425d89f2e6

VMware Avi Load Balancer Usage Data			
Data	Type	Description	Sample
serviceEngineGroups.tenant	string	The VMware Avi Load Balancer tenant the service engine group is configured within.The value is **anonymized**.	hFBqHxHA5PXs
serviceEngineGroups.vcdFeatureSetLevel	string	The VMware Cloud Director feature set applied to the service engine. This value is applied from VMware Cloud Director directly to the service engine group configuration.	STANDARD

VMware Avi Load Balancer Usage Data			
Data	**Type**	**Description**	**Sample**
serviceEngineGroups.coresConsumed	int	The number of cores being consumed by the service engine group.	6

4.2.7 Cloud Director Availability

Cloud Director Availability Data			
Data	**Type**	**Description**	**Sample**
vmId	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 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

Cloud Director Availability Data			
Data	**Type**	**Description**	**Sample**
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
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

4.2.8 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 in-active.	1
buildNumber	string	Software version of the VMware Cloud Director instance.	3.0.1.13737106-5c1331dcd

VMware Cloud Director Collection Data			
Data	**Type**	**Description**	**Sample**
vAppId	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
moref	string	A string that uniquely identifies a virtual machine on one vCenter.	vm-87
type	string	The kind of object that the metering data is about. For the VMware Cloud Director collector, this property should be "VirtualMachine".	VirtualMachine
orgId	string	The VMware Cloud Director organization to which this virtual machine belongs.	03d09d1f-1c41-46ce-be2f-924d78d356a9

VMware Cloud Director Collection Data			
Data	**Type**	**Description**	**Sample**
numberOfCpus	integer	The total number of virtual CPUs associated with the virtual machine.	1
vcdVmId	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
orgVdcId	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
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

VMware Cloud Director Collection Data			
Data	Type	Description	Sample
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 Cloud Director CMR Data			
Data	Type	Description	Sample
moref	string	A string that uniquely identifies a virtual machine on one vCenter.	vm-67
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 being metered.	8
time	integer	A millisecond timestamp - the time at which the customer label event was calculated. The calculation happens once an hour. VMware Cloud Director	1457594311912

		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.	
ruleName	string	The name of the customer label. If there are customer labels configured and no particular virtual machine is 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 the default label as well.	Customer-123

4.2.9 VCF Operations for Networks

VCF Operations for Networks Collection Data			
Data	**Type**	**Description**	**Sample**
type	string	The kind of object that the metering data is about. For the VCF Operations for Networks, the value of this property should be "VirtualMachine".	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.	0f2b6fbc-029e-4138-a9af-921b30d4c299
vcId	integer	An integer that specifies the VMware Cloud Foundation 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

VCF Operations for Networks Collection Data			
Data	**Type**	**Description**	**Sample**
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
productId	integer	Per vCloud Usage Meter unique product id, displayed on UI product page.	7
uuid	string	An alternative identifier that consists of the VCF 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

VCF Operations for Networks Product Data			
Data	**Type**	**Description**	**Sample**
lastChanged	integer	A millisecond timestamp that specifies when the	1584561143442

		product data structure was created.	
active	bool	Indicates whether a product instance is active or not.	True

licenses	array []	A list of licenses and their details.	[{
			
			    "evaluation": false, "licenseKey": "00000-00000-00000-00000-00000", "deploymentType": "onprem",
			
			    "expired": false, "deleted": false,
			    "capacityType": "CPU",
			    "serviceTag": "CJBOEgdEUTRXWldK",
			    "numberOfSockets": 64,
			    "licenseEdition": "ENTERPRISE",
			    "productName": "VCF 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.	CJBOEgdEUTRXWldK
licenses.licenseEdition	string	Indicates the VCF Operations for Networks edition.Can be one of two values: "ADVANCED" or "ENTERPRISE".	ENTERPRISE
licenses.numberOfSockets	integer	Indicates the number of sockets VCF Operations for Networks is licensed for.	64
licenses.productName	string	The product name for the license.	VCF Operations for Networks

licenses.suspended	bool	Indicates if the license is suspended or not.	false
licenseEdition	string	License edition of the VCF Operations for Networks instance.	ADVANCED
licenseKey	string	License key of the VCF Operations for Networks instance.	00000-00000-00000-00000-00000
version	string	The software version of the VCF Operations for Networks.	5.0.0
apiVersion	string	The REST API version that is supported by the VCF Operations for Networks instance.	1.1.3
port	integer	The port number of the VCF Operations for Networks instance.	443
host	string	The **anonymized** name of the hos.	p+k0nrBG
forgotten	bool	Indicates whether the product is	false

		marked as deleted or not.	
authorization Type	string	The authorization type used for authentication to this VCF Operations for Networks. This can be LOCAL, LDAP or vIDM.	LOCAL
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 VCF 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

4.2.10 VCF Operations

VCF Operations Collection Data			
Data	Type	Description	Sample
productId	integer	An integer that specifies the product instance being metered.	4
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 VCF 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
vcId	string	vCenter Product ID. Populated only if VCF Operations is registered as an extension in the vCenter and vCenter is added for metering in the VMware Cloud Foundation usage meter web application.	3

VCF Operations Collection Data			
Data	**Type**	**Description**	**Sample**
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

4.2.11 VCF Automation 8.X

VCF Automation 8.X Product Data			
Data	**Type**	**Description**	**Sample**
productType	String	The type of VMware product. For this collector, the property value should be "VRA–VRS".	VRA-VRS
Id	Number	The number of the VCF Automation instance that appears in the VMware Cloud Foundation usage meter web application.	1
version	string	The version of VCF Automation instance. .	8.7.0

licenses	string[]	The license details for the product which is being metered.	{
			   "key": "00000-00000-00000-00000-00000",
			   "description": "VMware Suite 2018 Enterprise",
			   "type": "Suite"
			   "status": "ACTIVE",
			   "expiredOn": "never",
			   "expired": false
			   }

VCF Automation 8.X Product Data			
Data	**Type**	**Description**	**Sample**
license.key	string	The serial license key of the metered product.	00000-00000-00000-00000-00000
license.description	string	The license name.	VMware Suite Lifecycle 2018 Enterprise
license.type	string	The license type.	VMware Suite Lifecycle
license.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

VCF Automation 8.X Collection Data			
Data	**Type**	**Description**	**Sample**
type	string	The kind of object that the metering data is about. For the VCF Automation collector, the property value should be " VirtualMachine".	VirtualMachine
uuid	string	The virtual machine's instance UUID in vCenter. Or the UUID, vRA identifies a virtual machine. Applicable to vRA 8.x and later.	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	vsphere

VCF Automation 8.X Collection Data			
Data	Type	Description	Sample
		the value provided by VCF 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
vcId	number	The vCenter Server ID generated by VMware Cloud Foundation usage meter. When the endpoint is not vCenter Server, the value is "null".	1
deployed	boolean	A boolean flag marking if the Virtual Machine has been 'Deployed' or 'Discovered' by the vRealize Automation instance. A value of 'true' indicates a 'Deployed' virtual machine, 'false' otherwise.	true

4.3 Data Hashing

Starting with VMware Cloud Foundation usage meter 4.5, providers can decide what type of data anonymization to apply to their collected data. Under the Settings tab in the VMware Cloud Foundation 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 Foundation Business Services console Report

Usage reports in VMware Cloud Foundation Business 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.

4.4.1 Hourly Usage Report

Field	Sample
Product	VMware Cloud Foundation
SKU	VCF-CLD-FND-5
Usage Hour	16.04.2025 3:00:00
License Key	00000-00000-00000-00000-00000
Serial Number	50000001-1-4
Allocation Id	04fec548-26e8-4269-af2a-9df6762775f9
Quantity	123
Unit of Measurement	CORE

4.4.2 Virtual Machine History Report

Field	Sample
vcId	7
instanceUuid	500ba485-ccda-c32f-a37a-16a6a461b599
moref	vm-1
name, **anonymized**	zSmd2hmbCsb2
guestName, **anonymized**	CH3L8i2LYLKH
numCpu	1
memoryMb	256
memoryReservation	0
powerState	PoweredOn
startTime	2025-04-16T11:54:17.174Z
endTime	2025-04-17T00:00:00.000Z
clusterMoref	domain-s16
label	VM_Label
duration	0 days 12h:5m:42s
billableMemory	128
MBHours	1548.1856
hostMoref	host-15
hostName, **anonymized**	CH3L8i2LYLKH
hostNumCpuCores	8

hostNumCPuPackages	8
hostBillableCores	128
hostLicenseKey	SUBSC-00000-00000-00000-RIBED
hostSerialNumber	52673653-1-4
hostAllocationId	04fec548-26e8-4269-af2a-9df6762775f9
hostLabel	DC_Rule

5. Contact

For additional questions, please contact the VMware cloud service provider point of contact or open a

support request at support.broadcom.com

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