

# Veritas InfoScale Core Plus License Meter Implementation Overview

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## Overview of Core Plus

The Core Plus license meter (“Core Plus”) for Veritas InfoScale™ is an enhancement to its traditional core-based license meter. This enhancement factors in the steady advances of CPU technology and includes additional capabilities to simplify license management. Core Plus helps you transition to an updated licensing model that provides you with the tools to securely track and manage your InfoScale licenses and simplify the renewal and purchase process.

Core Plus licenses can be purchased or subscribed to, are cross-platform and can be deployed on any supported operating system. Going forward, Core Plus is the only licensing meter available for new InfoScale purchases. However, this change does not affect any existing licenses or ongoing renewals. To order a new InfoScale license for a server, you need to quote a Core Plus credit value. You determine this value by multiplying the physical core count of each server CPU and the processor coefficient performance rating number.

Veritas maintains a matrix of various chip types and their performance rating numbers, called coefficients. This matrix is integrated into the SORT Data Collector, the web-based license calculator, and the Veritas Usage Insights tools. Using these tools, you can put together the required Core Plus information to generate a renewal or a new software quote.

For details, refer to the following documents:

- [Veritas InfoScale Licensing Guide](#)
- [InfoScale Core Plus Licensing FAQ](#)

## Collection, Reporting and Reconciliation of InfoScale License Usage Data through VIOM

Veritas provides tools to collect licensing and platform-related information on InfoScale deployments as part of the Veritas Product Improvement Program. This information helps Veritas identify how the products are deployed and used and helps you manage your licenses more efficiently.

To collect this information, add all the InfoScale hosts in your environment to a licensed Veritas Information Operations Manager (VIOM) CMS instance (see Figure 1).

### Generating InfoScale Core Plus Licensing Reports Using VIOM

To generate Core Plus licensing reports for your environment in the VIOM management console, perform the following actions:

1. To use the Core Plus licensing feature, ensure the VIOM CMS is at VIOM 7.4.2 Update 5 or later:  
[https://www.veritas.com/content/support/en\\_US/downloads/update.UPD441668.html](https://www.veritas.com/content/support/en_US/downloads/update.UPD441668.html)  
For details, refer to the patch documentation at:  
[https://www.veritas.com/content/support/en\\_US/doc/viom\\_technote\\_7.4.2.500](https://www.veritas.com/content/support/en_US/doc/viom_technote_7.4.2.500)
2. Identify the license registration status of the VIOM CMS (see page 4).
3. Install the VIOM CMS registration key (see page 4).
4. Download the Core Plus coefficients file (see page 6).
5. View the Core Plus details and generate the report (see page 7).
6. (Optional) Create and view a global Core Plus report from multiple VIOM CMS instances (see page 8).

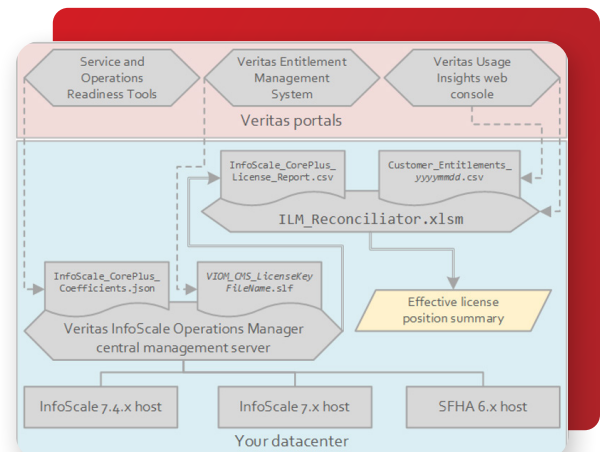
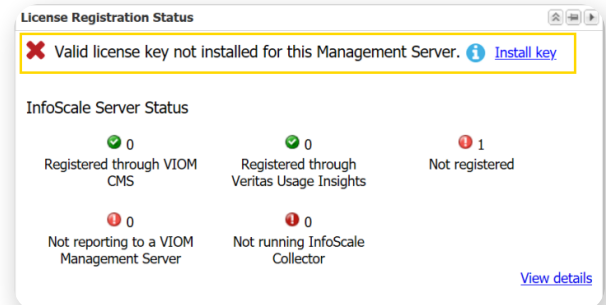


Figure 1. The process of adding InfoScale hosts to a licensed VIOM instance.

## Identify the License Registration Status of the VIOM CMS

1. Access the VIOM management console from a client system with a network connection to the VIOM CMS by using the URL: `https://VIOMCMS:14161/`. Replace `VIOMCMS` with the host name, the fully qualified host name (FQHN) or the IP address of the VIOM management server, for example: `https://viomcms.yourcompany.com:14161/`.
2. Sign in to the VIOM console, navigate to the **Server** perspective, open the **Overview** tab and check the license key registration status.



## Install the VIOM CMS Registration Key

You need to generate a VIOM CMS registration key only if you plan to work with the Core Plus licensing feature of InfoScale. This registration key is generated from Veritas Entitlement Management System (VEMS), but does not have a cost associated with it. This key is required only to gather and upload InfoScale licensing usage data and not for the use of other VIOM features.

A VIOM registration key is specific to the system where the VIOM CMS is installed. You must first obtain the SHA512 hash value for the fully qualified domain name (FQDN) of that system. Then, install the key from the VIOM management console.

## To generate a host lock string for a VIOM CMS instance

1. Make sure the VIOM CMS is installed and configured on a system.
2. Obtain the SHA512 hash value—the server host lock string—for the FQDN of that system by using the appropriate command for your platform. For details about the command usage, refer to the command help.

- For Windows, run the following script using PowerShell:

```
%ProgramFiles%\Veritas\VRTSsfmcs\bin\VxLicGetHostLock.ps1
```

Sample output:

FQDN: viomcms.yourcompany.com

Host lock string:

```
[sha512]5e52bbec7c30a5cc63f24b26297d99220161119dd2c2e9b6db2406a0a4ebd7e4aab8660deb93  
d3a7054c22c25335a253f23af7863eee7b0e2228fb6af12a6320
```

- For Linux, run the following shell script:

```
/opt/VRTSsfmcs/bin/VxLicGetHostLock.sh -fqdn viomcmshost.yourcompany.com
```

Alternatively, run the following bash command:

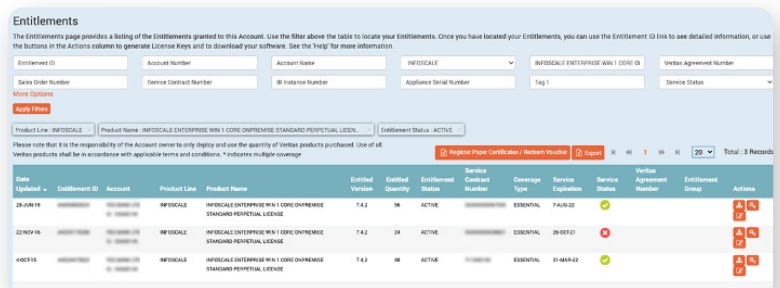
```
echo -n "[sha512]"; hostname --fqdn | sha512sum
```

Sample output:

```
[sha512]5e52bbec7c30a5cc63f24b26297d99220161119dd2c2e9b6db2406a0a4ebd7e4aab8660deb93  
d3a7054c22c25335a253f23af7863eee7b0e2228fb6af12a6320 -
```

All characters from the first square bracket ([]) up to the first blank are part of the host lock string. Do not include the spaces and the hyphen (-) that appears at the end of the sample output. You need to provide this entire string in the VIOM registration key generation form on the VEMS portal.

3. Sign in to the Veritas Support portal at <https://www.veritas.com/support> and click **Licensing**.
4. On the VEMS portal, click **Entitlements**.
5. Locate an entitlement for one of the InfoScale products with an Entitled Version greater than or equal to 7.4.2.
6. Click the Generate License icon for the InfoScale 7.4.2 product entitlement.



7. Select Veritas InfoScale Operations Manager.

Dashboard Accounts Entitlements Downloads License Keys NetInsights Console Self-service Tools

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### Generate License Key

The Generate License Key page provides the ability to generate License Keys for any Product version that you are entitled to deploy, and that has not reached its End of Support Life. See the 'Help' for additional information.

INFOSCALE ENTERPRISE WIN 1 CORE ONPREMISE STANDARD PERPETUAL LICENSE

Generated License Keys : 0

Account: 1000-00000-1170-00-000000000000  
Entitlement ID: 00000000000000000000000000000000  
IB Instance Number: 00000000000000000000000000000000  
Service Expiration: 7-AUG-22

Entitled Quantity: 96  
Service Contract Number: 00000000000000000000000000000000  
Veritas Agreement Number: 00000000000000000000000000000000

Select Version: 7.4.2

Product Version	Product Description
7.4.2	VERITAS INFOSCALE ENTERPRISE 7.4.2 WINDOWS LICENSE
7.4.2	VERITAS OPERATIONS MANAGER 7.4.2

How much of your Entitled Quantity would you like to deploy? 96

8. Enter the host lock string and click Generate.

Dashboard Accounts Entitlements Downloads License Keys NetInsights Console Self-service Tools

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### Generate License Key

The Generate License Key page provides the ability to generate License Keys for any Product version that you are entitled to deploy, and that has not reached its End of Support Life. See the 'Help' for additional information.

INFOSCALE ENTERPRISE WIN 1 CORE ONPREMISE STANDARD PERPETUAL LICENSE

Generated License Keys : 0

Account: 1000-00000-1170-00-000000000000  
Entitlement ID: 00000000000000000000000000000000  
IB Instance Number: 00000000000000000000000000000000  
Service Expiration: 7-AUG-22

Entitled Quantity: 96  
Service Contract Number: 00000000000000000000000000000000  
Veritas Agreement Number: 00000000000000000000000000000000

Select Version: 7.4.2

Product Version	Product Description
7.4.2	VERITAS INFOSCALE ENTERPRISE 7.4.2 WINDOWS LICENSE
7.4.2	VERITAS OPERATIONS MANAGER 7.4.2

How much of your Entitled Quantity would you like to deploy? 1

Enter the host lock string for the system where the software will be installed.\*

[sha512]2b67731b50b35ad0c681320da9fb377c2f04760b0f6b79ef80e3eb1f2c5f3ca404d772c614db48f3d86f07aa1590f990bfe83cdfbea22aee137a3194024

This product requires that the license key contain a host lock string. The host lock string will be used to ensure that the license key can only be used to activate the product operating on the system that matches the host information encoded in the license key. Refer to the product documentation for instructions on how to obtain the host lock string for the system that will host this product.

Add Comments

9. Click the Download icon to download the registration key.

VERITAS Entitlement Management System

Dashboard Accounts Entitlements Downloads License Keys NetInsights Console Self-service Tools

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### Generated Key

The License Key was successfully created. Click 'Download License' to save the License Key.

INFOSCALE ENTERPRISE WIN 1 CORE ONPREMISE STANDARD PERPETUAL LICENSE

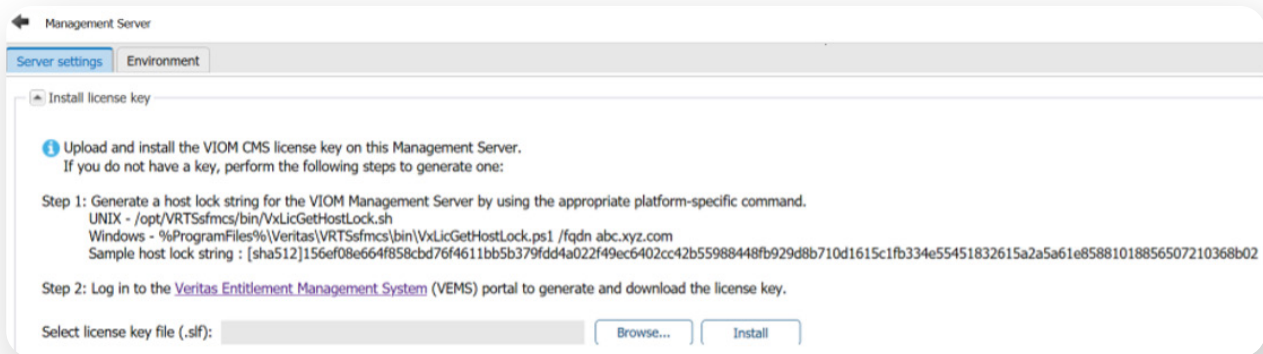
Entitlement ID: 00000000000000000000000000000000  
Coverage Type: ESSENTIAL

Entitled Quantity: 96  
Service Expiration: 7-AUG-22

Entitlement ID	Account	Product Line	Product Description	Date Generated	Product Version	Generated Quantity	Entitled Quantity	Entitlement Status	Generated By	License Key	Comments	Actions
00000000000000000000000000000000	1000-00000-1170-00-000000000000	INFOSCALE	VERITAS OPERATIONS MANAGER 7.4.2	27-OCT-21	7.4.2	1	96	ACTIVE	00000000000000000000000000000000	00000000000000000000000000000000 7.4.2-WIN-2500-130713- 000000		Download License

## To install a VIOM CMS license registration key

1. Sign in to the VIOM management console.
2. Open the **Settings** perspective > **Management Server** > **Server settings** tab (default).



3. Locate the license key file you downloaded from VEMS earlier by using the **Browse...** button.
4. Click **Install**.  
Various checks are performed on the downloaded file to ensure it contains valid data. If the license key is already installed, an information message is displayed accordingly.

## Download the Core Plus Coefficients File

1. Open the **Settings** perspective > **SORT** > **Core Plus Coefficients File Download Settings** tab (default).



2. Depending on whether the VIOM CMS has access to the Internet, download the Core Plus coefficients file:
  - To schedule the file to be downloaded automatically, select **Download Core Plus coefficients** file and specify the date and time you want the schedule repeated.
  - To manually download the file from SORT and then upload it to the VIOM CMS, follow the instructions and use the fields in the **Core Plus Coefficients File manual Download** section of this tab.

When you use the alternative location for manual download, the file is opened directly in a new browser window. You can right-click in the browser and use the appropriate menu to save the file with the name `InfoScale_CorePlus_Coefficients.json` at your preferred location on the local system.

## View the Core Plus Details and Generate the Report

1. To view the details of Core Plus licenses on the management console, open the **Licensing** perspective > **Core Plus details** tab.



This tab displays the license usage data collected from the InfoScale nodes registered with the CMS.

InfoScale licensing data collection

InfoScale Core Plus report

Overview

Deployment details

Core Plus details

Deployment policy

Reports

Search...

Host	Product Bundle	License Type	Version	Meter Type	License Entitlement Type	InfoScale Deployment Type	VM	CPU model	#Cores(vCPUs)	Coreplus Coefficient	#Core Plus Credits Consumed	Core Mapping
dl...	ENTERPRI...	SLIC	7.4.2	PER-CORE	PERPETUAL	KEYLESS	Y	Intel(R) ...	4	0	0	VIOM license key ...
dl...	ENTERPRI...	SLIC	7.4.2	PER-CORE	PERPETUAL	KEYLESS	Y	Intel(R) ...	4	0	0	VIOM license key ...

Properties

Name	Value
Entitlement ID	A519...
Host UUID	dea7...
Hypervisor Vendor	VMw...
License Keys	-
Platform	Red ...

2. To generate the Core Plus License report, open the **Licensing** perspective > **Reports** tab.
3. Click **Core Plus License** to open the report in a new browser window.

Core Plus License Report - Mozilla Firefox														
https://...com:14161/vom/licenses/report/showreport?title=...														
Subscribe Save as CSV Email														
<div> <div> <b>Core Plus License Information</b>            This report lists the core plus credits consumed by each infoscale server         </div> <div>           Generated at: Sep 9, 2021 AM         </div> </div>														
Host	Product Bundle	License Type	Version	Meter Type	License Entitlement Type	InfoScale Deployment Type	Entitlement ID	Platform	VM	CPU model	#Cores	Core plus Coefficient	#Core Plus Credits Consumed	
...	ENTERPRISE	SLIC	7.4.2	PER-CORE	PERPETUAL	KEYLESS	...	Red Hat Enterprise Linux	Y	Intel(R) Xeon(R) Gold	4	0	0	V...

**Note:** The Core plus Coefficient, #Core Plus Credits Consumed and Core Mapping columns display relevant data only when a valid VIOM CMS license registration key is installed.



Table 1 describes the values that appear in the **Core Mapping** column and their interpretation.

Table 1. Definitions of Core Mapping Values

Core Mapping Values	Interpretation
D – Derived mapping	The CPU model mapping is found in the Core Plus coefficients (JSON) file.
E – Exact mapping	The CPU model matches an entry that was manually added to the coefficients file. Indicates the CPU model was not found in the original coefficients file you downloaded, but Veritas Support provided additional input to include this CPU model in the file.
N – No mapping	The CPU model does not match any entry in the coefficients file. The mapping value is set to the default value. Contact Veritas Support to have this CPU model added to the coefficients file.

### (Optional) Create and View a Global Core Plus Report from Multiple VIOM CMS Instances

The VIOM management console lets you generate a global report of InfoScale Core Plus license usage data. A global report can include data from multiple management servers.

For details on setting up a VIOM CMS to gather data from multiple management servers, refer to the [Veritas InfoScale Operations Manager Patch 7.4.2.400](#) document.

#### To create and view a global report of Core Plus licenses

1. On each VIOM CMS, install VIOM 7.4.2 Update 5 or later, which includes the licensing service upgrade that supports Core Plus: [https://www.veritas.com/content/support/en\\_US/downloads/update.UPD441668.html](https://www.veritas.com/content/support/en_US/downloads/update.UPD441668.html)
2. Open the **Global Reports** perspective > **Reports** tab.
3. Click **Create report** to create a global report of Core Plus licenses.
4. Specify a report title and description and select the VIOM management servers on which you want to run the report.
5. Click the **i** (information) icon to view the list of Veritas-provided SQL queries you can use to create various global reports.

**Create report**

Report details

Title: Core Plus License

Description: View core plus license utilization data for InfoScale servers

SQL query:

Management servers

- ☒ [server name] veritas.com
- ☒ [server name] veritas.com

**i** **Create**



**SQL queries**

**Note:** Below table provides SQL queries required for report creation. You can use these SQL queries to create the reports.

Name	Query	Description
Audit report	SELECT C_WHEN AS "Date/Time", C_WHAT AS "Activity", C_WHERE AS "Location", C_TARGET AS "Target", C_WHO AS "User", AUTHORIZED AS "Authorized", C_WHY AS "Reason" FROM AUDIT_VIEW_LOG_R	Lists the VIOM activities for audit purpose.
Core Plus License	SELECT HOST AS "HOST", PRODUCT_BUNDLE AS "PRODUCT BUNDLE", LICENSE_TYPE AS "LICENSE TYPE", PRODUCT_VERSION AS "VERSION", METER_TYPE AS "METER TYPE", LICENSE_ENTITLEMENT_TYPE AS "LICENSE ENTITLEMENT TYPE", INFOSCALE_DEPLOYMENT_TYPE AS "INFOSCALE DEPLOYMENT TYPE", ENTITLEMENT_ID AS "ENTITLEMENT ID", PLATFORM AS "PLATFORM", VM AS "VM", CPU_MODEL AS "CPU MODEL", N_CORE AS "#CORES", COREPLUS_COEFFICIENT AS "CORE PLUS COEFFICIENT", COREPLUS_CREDITS_CONSUMED AS "#CORE PLUS CREDITS CONSUMED", CORE_MAPPING AS "CORE MAPPING" FROM VOM_VIEW_COREPLUS_LICENSE_INFO	This report lists the core plus credits consumed by each infoscale server.
Disk groups, associated disks & volumes	SELECT DG_NAME AS "Disk group", DG_TYPE AS "Type", DG_FAMILY AS "Family", DG_TOTALSIZE AS "Total size", DG_FREESPACE AS "Free size", DG_NDISKS AS "Disks count", DG_NVOLS AS "Volumes count", HOST_NAME AS "Host" FROM SF_VIEW_HOST_DISKGROUP ORDER BY HOST_NAME	Lists all the Disk groups of all the servers along with number of disks and volumes associated. You can use this report to find out the free space in disk groups and number of

- Copy the **Core Plus License** SQL query and close the box. Click **Create** on the **Create report** box.
- Verify the new report appears in the **Reports** tab.

**Add Management Server**

Management server details | **Reports**


Create report

All subscriptions

My subscriptions

☐ Custom reports

☐ localhost

 **Core Plus Licensing**

View Core Plus license utilization data for registered InfoScale servers

As with other VIOM global reports, you can run, modify or remove this report.

## Viewing Your Effective License Position Offline

Veritas provides the Reconciliator tool to compare your license usage data against your entitlements and view your effective license position offline.

Ensure the InfoScale hosts registered with the VIOM CMS are at the update level shown below:

InfoScale Version	Applicable VIOM Update Version
InfoScale 7.0 through 7.4.3	VIOM CMS and agent versions 7.4.2 with Update 5 or later <b>Note:</b> This update is not supported with SLES 11.
SFHA 6.2	VIOM CMS and agent versions 7.4.2 with Update 5 or later

Perform the following procedures sequentially.

### Download the Report

1. Open the **Licensing perspective** and click the **InfoScale Core Plus report** link at the top.
2. On the **InfoScale Core Plus report** dialog box, click **Download**.

A CSV file will be downloaded from the browser to your local system.

### Download and Use Your Entitlements File and the Reconciliator Tool

1. Sign in to Veritas NetInsights Console at: <https://netinsights.veritas.com/>.
2. Click the **Usage Insights** card.
3. (Optional) If your account is associated with other Veritas products, select **InfoScale** in the dropdown at the top of the page.
4. Click **Registration and downloads** in the navigation pane on the left.
5. Open the **Reconciliator** tab and use the appropriate buttons to download the Reconciliator tool and your entitlements file.
6. Open the Reconciliator tool, locate the appropriate CSV files using the **Select Entitlement Data File** and the **Select License Usage Data File** (InfoScale Core Plus report) buttons and click **Generate Summary**.

Select Entitlement Data File	C:\ProgramData\Veritas\InfoScale\License_Meter_Usage\Customer_Entitlements_20210921.csv
Select License Usage Data File	C:\ProgramData\Veritas\InfoScale\License_Meter_Usage\InfoScale_CorePlus_License_Report.csv
Generate Summary	Reset Form

Summary Table					
Product	Entitlement Type	License Meter	Quantity Entitled	Quantity Used	(Over) / Under
Availability	Perpetual	CORE	1686		1686.00
Availability	Subscription	SERVER	764		764.00
Enterprise	Perpetual	CORE	792	8	784.00
Enterprise	Perpetual	SERVER	1787		1787.00
Foundation	Perpetual	CORE	579		579.00
Storage	Perpetual	SERVER	590		590.00
Storage	Subscription	SERVER	877		877.00

The Effective License Position section displays a table that summarizes the usage of InfoScale licenses in your environment.

## Viewing Your Effective License Position Online

Veritas provides the Usage Insights console to compare your license usage data against your entitlements and view your effective license position online.

Perform the following procedures sequentially.

### Collect InfoScale Licensing Data

1. Sign in to the VIOM management console.
2. Open the **Licensing** perspective and click the **InfoScale licensing data collection** link at the top-left corner.
3. On the **InfoScale licensing data collection** dialog box, click **Collect**.  
The VIOM CMS collects licensing data from the registered InfoScale nodes and downloads a JSON file from the browser to your local system.
4. Upload this file to the Usage Insights console to view the reports there.

**Note:** If the VIOM CMS is not registered using a license key, an empty file is downloaded instead. To get the file with the proper data, the valid key must be installed.

### Upload the Report to Usage Insights and View the License Usage Summary

1. Sign in to Veritas NetInsights Console at: <https://netinsights.veritas.com/>
2. Click the **Usage Insights** card.
3. (Optional) If your account is associated with other Veritas products, select **InfoScale** in the dropdown at the top of the page.
4. Click **License utilization files** in the navigation pane on the left.
5. Click **Upload files** and provide the location and file name of the JSON file that was created from the **InfoScale licensing data collection** dialog box of the VIOM management console. After the files are uploaded completely the data appears in the table on the **License utilization files** page.
6. Click **Dashboard** in the navigation pane on the left to open the corresponding tab and view the license usage summary.

For details, refer to the Usage Insights console for InfoScale online help:

[https://help.veritas.com/vxhelp6/#/?context=veritas\\_usage\\_insights\\_infoscale&locale=en\\_US](https://help.veritas.com/vxhelp6/#/?context=veritas_usage_insights_infoscale&locale=en_US)

## Veritas Contacts

If you need help to collect the InfoScale licensing usage data in your environment or to upload it to Veritas NetInsights Console, contact Veritas Technical Support.

### Email Support

Send an email to one of the following email addresses:

- Worldwide (except Japan): [CustomerCare@veritas.com](mailto:CustomerCare@veritas.com)
- Japan: [CustomerCare\\_Japan@veritas.com](mailto:CustomerCare_Japan@veritas.com)

A support case will be automatically created for you, and you will receive an email with your case number. Future emails from Customer Care will include this case number.

Please include as much detail as possible such as the Entitlement ID, Account Name, Account Number, Veritas Agreement Number (VAN), Purchase Order Number, Sales Order Number and Service Contract Number. This information is available on the Entitlements Details page of the VEMS site.

For details on how to locate this information, refer to the *Veritas Entitlement Management System User's Guide* at:  
[https://www.veritas.com/content/support/en\\_US/article.100048764](https://www.veritas.com/content/support/en_US/article.100048764)

## Phone Support

Phone support information is available at: [https://www.veritas.com/support/en\\_US](https://www.veritas.com/support/en_US)

## About Veritas

Veritas Technologies is a global leader in data protection and availability. Over 80,000 customers—including 87 percent of the Fortune Global 500—rely on us to abstract IT complexity and simplify data management. The Veritas Enterprise Data Services Platform automates the protection and orchestrates the recovery of data everywhere it lives, ensures 24/7 availability of business-critical applications, and provides enterprises with the insights they need to comply with evolving data regulations. With a reputation for reliability at scale and a deployment model to fit any need, Veritas Enterprise Data Services Platform supports more than 800 different data sources, over 100 different operating systems, more than 1,400 storage targets, and more than 60 different cloud platforms. Learn more at [www.veritas.com](http://www.veritas.com). Follow us on Twitter at [@veritastechllc](https://twitter.com/veritastechllc).

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