



# **system license commands**

## ONTAP commands

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# system license commands

## system license add

Add one or more licenses

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

### Description

This command adds a license to a cluster. To add a license you must specify a valid license key, which you can obtain from your sales representative.

### Parameters

**-license-code <License Code V2>, ... - License Code V2**

This parameter specifies the key of the license that is to be added to the cluster. The parameter accepts a list of 28 digit upper-case alphanumeric character keys.

### Examples

The following example adds a list of licenses with the keys AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA and BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB to the cluster

```
cluster1::> system license add -license-code AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA,  
BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB
```

## system license clean-up

Remove unnecessary licenses

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

### Description

This command manages licenses in the cluster that have no effect, and so can be removed. Licenses that have expired or are not affiliated with any controller in the cluster are deleted by this command.

### Parameters

**[-unused <true>] - Remove unused licenses**

If you use this parameter, the command removes licenses in the cluster that are not affiliated with any controller in the cluster.

**[-expired <true>] - Remove expired licenses**

If you use this parameter, the command removes licenses in the cluster that have expired.

### **[-n, -simulate <true>] - Simulate Only**

If you use this parameter, the command will not remove the licenses. Instead it will display the licenses that will be removed if this parameter was not provided.

## **Examples**

The following example simulates and displays the licenses that can be cleaned up:

```
cluster1::> system license clean-up -n -unused -expired
Serial number: 1-80-000011
Owner: cluster1
Package              Reason
-----
SnapLock             Demo License has expired
SnapProtectApps      Demo License has expired

Serial number: 1-81-00000000000000004062522917
Owner: none
Package              Reason
-----
NFS                  Serial number is not used by any node in the
cluster
CIFS                  Serial number is not used by any node in the
cluster
```

The following example deletes the expired licenses:

```
cluster1::> system license clean-up -expired
2 demo licenses deleted.
```

The following example deletes the unused licenses:

```
cluster1::> system license clean-up -unused
2 unused licenses deleted.
```

## **system license delete**

Delete a license

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

## Description

This command deletes a license from a cluster.

## Parameters

### **-serial-number <text> - Serial Number**

This parameter specifies the serial number of the license that is to be deleted from the cluster. If this parameter is not provided, the default value is the serial number of the cluster.

### **-package <Licensable Package> - Package**

This parameter specifies the name of the package that is to be deleted from the cluster.

## Examples

The following example deletes a license named CIFS and serial number 1-81-00000000000000000000123456 from the cluster:

```
cluster1::> system license delete -serial-number 1-81-  
00000000000000000000123456 -package CIFS
```

## system license show-status

Display license status

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

## Description

This command displays the status of all Data ONTAP licenses.

## Parameters

**{ [-fields <fieldname>,...]**

If you specify the `-fields <fieldname>, ...` parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

**| [-instance ] }**

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-status {not-compliant|eval|partially-installed|valid|not-installed|not-applicable}] - Current state**

If you use this parameter, the command displays information only about licenses that match the given status.

**[-license <Licensable Package>] - License**

If you use this parameter, the command displays information only about licenses that match the given license.

### **[-scope {site|cluster|node}] - License Scope**

If you use this parameter, the command displays information only about licenses that match the given scope.

### **[-detailed-status <text>,...] - Detailed Status**

If you use this parameter, the command displays information only about licenses that match the given detailed-status.

## **Examples**

The following example displays the license status of the cluster:

```
cluster1::> system license show-status
Status      License                Scope      Detailed Status
-----
partially-installed
              CIFS                node      License missing on: Node2-
Cluster1.
              SnapRestore          node      License missing on: Node2-
Cluster1.
valid
              FCP                  node      -
              FabricPool           cluster   The system is using 1TB, and can
use up to 25TB.
not-installed
              NFS                  -        -
              iSCSI                -        -
              SnapMirror            -        -
              FlexClone             -        -
              SnapVault             -        -
              SnapLock              -        -
              SnapManagerSuite      -        -
              SnapProtectApps       -        -
              V_StorageAttach       -        -
              Insight_Balance       -        -
              OCShift               -        -
              TPM                   -        -
              VE                    -        -
              DP_Optimized          -        -
not-applicable
              Cloud                -        -
              Select                -        -
20 entries were displayed.
```

# system license show

Display licenses

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

## Description

The ``system license show`` command displays the information about licenses in the system.

## Parameters

**{ [-fields <fieldname>,...]**

If you specify the `-fields <fieldname>, ...` parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

**| [-instance ] }**

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-serial-number <text>] - Serial Number**

If you use this parameter, the command displays information only about the licenses that matches the serial number you specify.

**[-package <Licensable Package>] - Package**

If you use this parameter, the command displays information only about the specified package.

**[-owner <text>] - Owner**

If you use this parameter, the command displays information only about the packages that matches the owner name you specify.

**[-expiration <MM/DD/YYYY HH:MM:SS>] - Expiration**

If you use this parameter, the command displays information only about the licenses that have the expiration date you specify.

**[-description <text>] - Description**

If you use this parameter, the command displays information only about the licenses that matches the description you specify.

**[-type {license|site|demo|subscr|capacity}] - Type**

If you use this parameter, the command displays information only about the licenses that have the license type you specify.

**[-legacy {yes|no}] - Legacy**

If you use this parameter, the command displays information only about the licenses that matches the legacy field you specify.

**[-customer-id <text>] - Customer ID**

If you use this parameter, the command displays information only about the licenses that have the customer-id you specify.

## Examples

The following example displays default information about all licensed packages in the cluster:

```
cluster1::> system license show
Serial Number: 1-80-123456
Owner: cluster1
Package           Type      Description           Expiration
-----
Base              site     Cluster Base License -
NFS               site     NFS License          -
iSCSI             site     iSCSI License        -

Serial Number: 1-81-0000000000000001122334455
Owner: node1
Package           Type      Description           Expiration
-----
NFS               license  NFS License          -
SnapRestore       license  SnapRestore License  -
5 entries were displayed.
```

## system license capacity show

(DEPRECATED)-Show license capacity status

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

### Description



This command is deprecated and may be removed in a future release of Data ONTAP. Use the ["system license show-status"](#) command.

The `system license capacity show` command displays the information about the licenses in the system that are specifically related to storage capacity limits.

### Parameters

**{ [-fields <fieldname>,...]**

If you specify the `-fields <fieldname>, ...` parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

**| [-instance ] }**

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-serial-number <Node Serial Number>] - Serial Number**

If you use this parameter, the command displays information only about the capacity-related licenses that matches the serial number you specify.



**[`-package` <Licensable Package>] - Package**

If you use this parameter, the command displays information only about the package you specify.

**[`-owner` <text>] - Owner**

If you use this parameter, the command displays information only about the capacity-related licenses that have the owner you specify.

**[`-max-capacity` {<integer>[KB|MB|GB|TB|PB]}] - Maximum Capacity**

If you use this parameter, the command displays information only about the capacity-related licenses that have the maximum amount of attached storage capacity you specify.

**[`-current-capacity` {<integer>[KB|MB|GB|TB|PB]}] - Current Capacity**

If you use this parameter, the command displays information only about the capacity-related licenses that apply to the node with the current attached capacity you specify.

**[`-expiration` <MM/DD/YYYY HH:MM:SS>] - Expiration Date**

If you use this parameter, the command displays information only about the capacity-related licenses that have the expiration date you specify.

**[`-reported-state` {evaluation|warning|missing|enforcement|installed}] - Reported State**

If you use this parameter, the command displays information only about the capacity-related licenses that have the reported state you specify.

**[`-node` {<nodename>|local}] - Node Name**

If you use this parameter, the command displays information only about the capacity-related licenses that apply to the node you specify.

## Examples

The following example displays information about all capacity-related licensed packages in the cluster, for a hypothetical cluster of four nodes:

Note that for some nodes below, the maximum capacity is displayed as "-" (meaning "unlimited"). This happens when there is no capacity license for the node - the node is operating with a limited-time temporary capacity license.

```
cluster1::> system license capacity show
```

```
Node:          node1
Serial Number: 1-81-00000000000001234567890123456

                Max  Current
Package          Capacity Capacity Expiration
-----
Select          2TB    15.81GB 4/11/2016 00:00:00
Node:          node2
Serial Number: 1-81-000000000000000000000123456788

                Max  Current
Package          Capacity Capacity Expiration
-----
Select          -    10.40TB 4/11/2016 00:00:00
Node:          node3
Serial Number: 1-81-000000000000000000000123456789

                Max  Current
Package          Capacity Capacity Expiration
-----
Select          -    10.40TB 4/11/2016 00:00:00
Node:          node4
Serial Number: 1-81-00000000000001234567890123456

                Max  Current
Package          Capacity Capacity Expiration
-----
Select          2TB    15.81GB 4/11/2016 00:00:00
```

## Related Links

- [system license show-status](#)

## system license entitlement-risk show

Display Cluster License Entitlement Risk

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

### Description

This command displays information about license entitlement risk of the cluster for each license package. The command displays license package name, entitlement risk, corrective action to reduce the entitlement risk for each package, and the names and serial numbers for the nodes that do not have a node-locked license for a given package. If command is used with the "-detail" parameter, the output displays the names and serial numbers for all nodes in the cluster instead of only the nodes missing a node-locked license. It also displays whether each node has a license and if the features corresponding to the package are used in the past week.

License entitlement risk does not apply to base license. If a node has a site or a valid demo license for the

given package, the entitlement risk will be shown as "medium" and the nodes missing a node-locked license will be displayed. The corrective action, if the cluster has a site license for the given package is, "Verify all controllers are entitled". If the entitlement risk is high, the corrective action is "Acquire node-locked license". For the low entitlement risk and if the cluster is unlicensed for a given package, the corrective action is "None". If the license entitlement risk cannot be computed because of infrastructure issues, the entitlement risk is shown as "unknown" and the corrective action is displayed as "Verify system health". For more information regarding license entitlement risk, see + <http://mysupport.netapp.com/licensing/ontapentitlementriskstatus>

## Parameters

**{ [-fields <fieldname>,...]**

With this parameter, you can specify which fields should be displayed by the command. License package names and node serial numbers are always displayed.

**| [-detail ]**

If you use this parameter, the command displays the license package name, entitlement risk, corrective action, all nodes' names, their serial numbers, whether a node-locked license is present and whether a given license package has been in use in the past week for each node in the cluster.

**| [-instance ] }**

If this parameter is used, the command displays values for all fields for each license package and each node in the cluster individually.

**[-package <Licensable Package>] - Package Name**

If you use this parameter, the command displays information only for the specified license package.

**[-serial-number <Node Serial Number>] - Node Serial Number**

If you use this parameter, the command displays information only for the node with the specified serial number. The displayed entitlement risk and corrective action apply to the entire cluster.

**[-node-name <text>] - Node Name**

If you use this parameter, the command displays information only for the node with the specified name. The displayed entitlement risk and corrective action apply to the entire cluster.

**[-risk {high|medium|low|unlicensed|unknown}] - Entitlement Risk**

If you use this parameter, the command displays information only for the license packages that have the specified license entitlement risk.

**[-action <text>] - Corrective Action**

If you use this parameter, the command displays information only for the license packages which need the specified corrective action to reduce entitlement risk.

**[-is-licensed {true|false}] - Is Node-Locked License Present**

If you use this parameter, the command displays information only for the license packages for which at least one node in the cluster has a node-locked license. It also displays the nodes in the cluster which do not have a node-locked license.

**[-in-use {true|false}] - Usage Status**

If you use this parameter, the command displays information only for the license packages with corresponding features in use.

### **[-missing-serial-numbers <text>,...] - Serial Numbers Missing a Node-Locked License**

If you use this parameter, the command displays the packages for which the node with the specified serial number does not have a node-locked license.

### **[-missing-node-names <text>,...] - Node Names Missing a Node-Locked License**

If you use this parameter, the command displays all the packages for which the node with the specified name does not have a node-locked license.

### **[-action-code {acquire-license|adjust-capacity|verify-entitlement|verify-system-health|none}] - Corrective Action Code**

If you use this parameter, the command displays information only for the license packages which need specified corrective action code to reduce entitlement risk. This parameter is same as the parameter "action".

## **Examples**

The following example displays the information for license package NFS. NFS is unlicensed in the cluster and no action is necessary to reduce the entitlement risk. The nodes, cluster1-01 and cluster1-02, are missing a node-locked license. The serial numbers for both nodes are also displayed.

```
cluster1::> system license entitlement-risk show
Package          Entitlement Risk Corrective Action
-----
NFS              unlicensed          None
                Nodes Without a Node-Locked License
                -----
                cluster1-01          1-81-00000000000000004073806282
                cluster1-02          1-81-00000000000000004073806283
```

The following example displays the information for license package CIFS. The cluster has high entitlement risk for CIFS. The command displays serial numbers for all nodes in the cluster. Both nodes are missing a node-locked CIFS license. Node with serial number 1-81-00000000000000004073806282 has used CIFS feature in the past week, and the node with serial number 1-81-00000000000000004073806283 has not used this feature in the past week.

```
cluster1::> system license entitlement-risk show -detail
Package          Entitlement Risk Corrective Action
-----
CIFS             high              Acquire a node-locked license
                  Serial Numbers          Licensed Usage
                  -----
                  1-81-00000000000000004073806282 false      true
1-81-00000000000000004073806283 false      false
```

# system license status show

(DEPRECATED)-Display license status

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

## Description



This command is deprecated and may be removed in a future release of Data ONTAP. Use the "system license show-status" command.

This command displays the list of licensable packages in the system and their current licensing status.

## Parameters

**{ [-fields <fieldname>,...]**

If you specify the `-fields <fieldname>`, ... parameter, the command output also includes the specified field or fields. You can use `-fields ?` to display the fields to specify.

**| [-instance ] }**

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-package <Licensable Package>] - Package Name**

If you use this parameter, the command displays information only about the specified package.

**[-method {none|license|site|demo|subscr|capacity}] - Licensed Method**

If you use this parameter, the command displays information only about the packages with the specified licensed method.

**[-expiration <MM/DD/YYYY HH:MM:SS>] - Expiration Date**

If you use this parameter, the command displays information only about the licenses that have the expiration date you specify.

**[-description <text>] - Description**

If you use this parameter, the command displays information only about the licenses that match the description you specify.

**[-status-details <text>] - Additional Information About Status**

This option displays additional information regarding the cluster-level license status for license methods.

## Examples

The following example displays the license status of the cluster:

```
cluster1::> system license status show
```

Package	Licensed Method	Expiration	Status Details
Base	site	-	-
NFS	site	-	-
CIFS	demo	12/7/2015 00:00:00	Demo expires on
given date			
iSCSI	none	-	-
FCP	none	-	-
SnapRestore	none	-	-
SnapMirror	none	-	-
FlexClone	none	-	-
SnapVault	none	-	-
SnapLock	none	-	-
SnapManagerSuite	none	-	-
SnapProtectApps	none	-	-
V_StorageAttach	none	-	-
SnapLock_Enterprise			
	none	-	-
Insight_Balance	none	-	-
OCSHIFT	none	-	-
Cloud	subscr	12/15/2015 00:00:00	Subscription
expires on given date			

17 entries were displayed.

## Related Links

- [system license show-status](#)

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