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License management commands

display license

Use `display license` to display detailed license information.

Syntax

```
display license [ activation-file ] [ slot slot-number ]
```

Views

Any view

Predefined user roles

network-admin

network-operator

Parameters

activation-file: Displays license information about activation files. The device supports license installation only through activation files, so this command always displays license information about activation files whether you specify this keyword or not.

slot slot-number: Specifies the member ID of an IRF member device. If no member device is specified, this command displays license information for all IRF member devices.

Usage guidelines

The `display license` command displays detailed information about all licenses if it is used without the `activation-file` keyword.

Examples

Display detailed information about all licenses.

```
<Sysname> display license
```

```
Slot 1:
```

```
flash:/license/213130A3EM01234567892018091418384630491.ak
```

```
Feature: OPENXCVR
```

```
Product Description: H3C Open Optical Transceiver Module Support License for 100  
G/25G Fixed-Port Data Center Switches
```

```
Registered at: 2001-01-01 09:09:14
```

```
License Type: Trial (days restricted)
```

```
Trial Time Left (days): 177
```

```
Current State: In use
```

Table 1 Command output

Field	Description
Feature	Feature name.
Product Description	License description.
Registered at	Time when the license was installed.
License Type	License type by validity period: <ul style="list-style-type: none">• NA—The system cannot obtain the license type.• Permanent—Purchased license that never expires and is always valid.

	<ul style="list-style-type: none"> • Days restricted—Purchased license that is valid for a period of days, for example, 30 days. • Date restricted—Purchased license that is valid for an absolute date range, for example, 2015-05-01 to 2015-05-30. • Trial (days restricted)—Free trial license that is valid for a period of days. • Trial (date restricted)—Free trial license that is valid for an absolute date range.
Time Left (days)	Remaining days of the license. This field is available for a purchased license.
Trial Time Left (days)	Remaining days of the trial period. This field is available for a trial license.
Validity Period	Start date and end state for a date restricted purchased license. If the license is permanent, this field displays No limit .
Trial Validity Period	Start date and end state for a date restricted trial license. If the license is permanent, this field displays No limit .
Current State	<p>State of the license:</p> <ul style="list-style-type: none"> • In use—The license is being used. • Usable—The license is available for use. <ul style="list-style-type: none"> ○ If multiple days-restricted licenses for one feature are installed, only one license is in In use state and the rest licenses are in Usable state. ○ A date restricted license is in this state if its start date is not reached. • Expired—The license has expired. • Uninstalled—The license has been uninstalled. • Unusable—The license cannot be used. • Invalid—The license is invalid and cannot be used.
Uninstall Key	<p>This field is available for licenses that have been uninstalled.</p> <p>When you uninstall an activation file, an Uninstall file that contains an Uninstall key is created. The Uninstall key is required for transferring the license.</p>
Uninstall Date	Date when the activation file was uninstalled.

display license device-id

Use `display license device-id` to display SN and DID information.

Syntax

```
display license device-id slot slot-number
```

Views

Any view

Predefined user roles

network-admin

network-operator

Parameters

`slot slot-number`: Specifies the member ID of an IRF member device.

Usage guidelines

When you register a license for a device, you must provide its unique SN and DID.

The DID changes each time you use the `license compress` command to compress the license storage. Use the `display license device-id` command to identify the up-to-date DID each time you register licenses.

The DID can be generated as a string or .id file.

- If the DID is a string, enter the string when you register the license with the license center.
- If the DID is contained in an .id file, upload the file when you register the license with the license center.

Examples

```
# Display the SN and DID for the specified slot.
<Sysname> display license device-id slot 1
SN: 210235A045B05B0004350
Device ID: flash:/license/210235A045B05B0004350.did
```

display license feature

Use **display license feature** to display brief license information for features.

Syntax

```
display license feature
```

Views

Any view

Predefined user roles

network-admin
network-operator

Examples

```
# Display brief feature license information.
<Sysname> display license feature
Slot 1:
Total: 64 Usage: 1
Feature                               Licensed      State
OPENXCVR                               Y             Trial
```

Table 2 Command output

Field	Description
Total	Total number of licenses that can be installed.
Usage	Number of installed licenses.
Feature	Feature that must be licensed before being used. The device does not support EVI in the current software version.
Licensed	Licensing state of the feature: <ul style="list-style-type: none">• N—Not licensed.• Y—Licensed.
State	License type by purchasing state: <ul style="list-style-type: none">• Formal—Purchased license.• Trial—Trial license. If the feature is not licensed, this field displays a hyphen (-). To use the feature, you must install a valid license file.

license activation-file install

Use `license activation-file install` to install an activation file.

Syntax

```
license activation-file install file-name slot slot-number
```

Views

System view

Predefined user roles

network-admin

Parameters

file-name: Specifies the file path, a case-sensitive string of 1 to 127 characters. The activation file must be valid and stored on the device.

slot slot-number: Specifies the member ID of an IRF member device.

Usage guidelines

To install a license activation file successfully, make sure the SN and DID used for registering the feature license matches the current SN and DID of the device.

Activation files are device locked rather than MPU locked. A licensed feature can run on the entire system even after an MPU replacement.

Examples

```
# Install activation file 20130811.ak to the specified slot.
```

```
<Sysname> system-view
```

```
[Sysname] license activation-file install flash:/license/20130811.ak slot 1
```

```
This operation might take some time. Do not perform any other operations until the operation is completed or a failure message is displayed. Please wait...
```

Related commands

```
display license activation-file
```

```
display license device-id
```

```
license activation-file uninstall
```

license activation-file uninstall

Use `license activation-file uninstall` to uninstall an activation file.

Syntax

```
license activation-file uninstall file-name slot slot-number
```

Views

System view

Predefined user roles

network-admin

Parameters

file-name: Specifies the file path, a case-sensitive string of 1 to 127 characters.

slot slot-number: Specifies the member ID of an IRF member device.

Usage guidelines

Use this command to revoke an unexpired license if you want to transfer the license from one device to another.

When an activation file is uninstalled, the system creates an Uninstall file. Use this file together with the SN and DID of the transfer destination to register the license for the transfer destination.

A feature cannot run after you uninstall all of its activation files.

Trial licenses are not transferrable. When you uninstall the activation file of a trial license, no Uninstall file is created.

Examples

```
# Uninstall activation file flash:/license/20130811.ak from the specified slot.
```

```
<Sysname> system-view
```

```
[Sysname] license activation-file uninstall flash:/license/20130811.ak slot 1
```

```
This operation might take some time. Do not perform any other operations until the operation is completed or a failure message is displayed. Please wait...
```

```
Uninstall file: flash:/license/20130811.uak
```

Related commands

```
display license activation-file
```

```
license activation-file install
```

license compress

Use **license compress** to compress the license storage.

Syntax

```
license compress slot slot-number
```

Views

System view

Predefined user roles

network-admin

Parameters

slot *slot-number*: Specifies the member ID of an IRF member device.

Usage guidelines

Use this command if the free license storage (see the **display license feature** command) is not sufficient.

This command clears expired licenses and uninstalled licenses. The DID changes each time the license storage is compressed. Before performing a compression, make sure all licenses registered with the old DID have been installed. They cannot be installed after the compression.

This command clears invalid licenses (expired licenses and uninstalled licenses) and Uninstall keys from the license storage area. Back up the Uninstall keys before you compress the license storage.

Examples

```
# Compress the license storage on the specified slot.
```

```
<Sysname> system-view
```

```
[Sysname] license compress slot 1
```

```
This command will delete all data relevant to uninstalled and expired keys/licenses, including Uninstall keys, and create a new device ID for activation keys/files. Make sure
```

you have saved the Uninstall keys so you can apply for a new activation key/file for the unexpired licenses that were covered by the uninstalled activation keys/files.

Are you sure you want to continue? [Y/N]: Y

This operation might take some time. Do not perform any other operations until the operation is completed or a failure message is displayed. Please wait...