

INTELBRAS Access Controllers License Management Configuration Examples

Copyright © 2024 Intelbras S.A All rights reserved.

No part of this manual may be reproduced or transmitted in any form or by any means without prior written consent of Intelbras S.A

Except for the trademarks of Intelbras S.A, any trademarks that may be mentioned in this document are the property of their respective owners.

The information in this document is subject to change without notice.

Contents

Introduction	1
Prerequisites	1
Example: Installing AP licenses on an AC	1
Network configuration	1
Restrictions and guidelines	1
Procedures	2
Obtaining a license key	2
Identifying the license storage on the AC	2
Compressing the license storage on the AC	2
Obtaining device information from the AC	3
Requesting an activation file on INTELBRAS License Management Platform	3
Installing an activation file on the AC	6
Verifying the configuration	6
Related documentation	7

Introduction

The following information provides an example of installing AP licenses.

Prerequisites

The following information applies to Comware-based access controllers and access points. Procedures and information in the examples might be slightly different depending on the software or hardware version of the access controllers and access points.

The configuration examples were created and verified in a lab environment, and all the devices were started with the factory default configuration. When you are working on a live network, make sure you understand the potential impact of every command on your network.

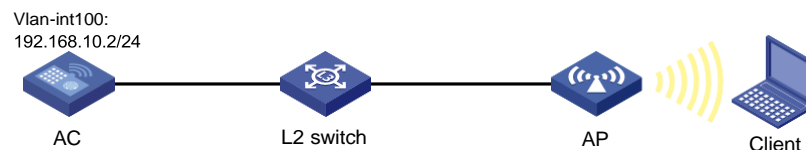
The following information is provided based on the assumption that you have basic knowledge of licensing.

Example: Installing AP licenses on an AC

Network configuration

As shown in [Figure 1](#), install AP licenses on the AC for the AC to manage the AP and for the AP to provide wireless services to the client.

Figure 1 Network diagram



Restrictions and guidelines

- Purchase licenses from INTELBRAS authorized channels.
- To identify the validity periods of the licenses that have been installed on the device, execute the **display license** command. If the license for a feature is time limited, install a new license for the feature before the old license expires.
- When you operate DID files or activation files, follow these restrictions and guidelines:
 - To avoid licensing error, do not modify the file name or edit the file content.
 - Before you install an activation file, download the activation file to the storage media of the device such as flash memory. When you install an activation file, the device automatically copies the activation file to the **license** folder in the root directory of the storage media. The **license** folder stores important files for licensing. For licensed features to function correctly, do not delete or modify the **license** folder or the files in this folder.

Procedures

Obtaining a license key

After you obtain a license key, back up it and keep the backup license key in a safe place for future use.

Obtaining a formal license key

To use a license-based feature, purchase a software license certificate for it. The authorization serial number in the software license certificate is the license key.

Obtaining a trial license key

If you need a trial license key to verify the functionality of a feature before you making a purchase decision, contact your INTELBRAS sales representative or INTELBRAS Support.

Identifying the license storage on the AC

To identify the free space of the license storage, execute the following command in any view:

```
<Sysname> display license feature
Total: 360 Usage: 0
Feature                               Licensed      State
APMGR                                 N              -
```

From the command output, view the **Total** and **Usage** fields to examine whether the remaining license storage is sufficient for installing new licenses. If the remaining license storage is not sufficient, compress the license storage.

The remaining license storage equals to the total amount of license storage minus the used amount of license storage.

Compressing the license storage on the AC

About this task

The license storage stores licensing information and has a fixed size.

You compress the license storage to delete expired and uninstalled license information to ensure sufficient storage space for installing new licenses.

Restrictions and guidelines

If uninstalled licenses or expired licenses exist on the AC, the compression operation will make the DID or DID file change. You will be unable to install the activation file obtained by using the old DID or DID file on the AC. As a best practice, install all activation files registered with the old DID or DID file before performing a compression.

Procedure

Compress the license storage.

```
<Sysname> system-view
[Sysname] license compress
```

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...Done.

Obtaining device information from the AC

Obtain the device SN and DID file.

```
<Sysname> display license device-id
```

```
SN: 210235A1JMC166XXXXXX
```

```
SN CHECK_SUM: 2D0BF254
```

```
Device ID: flash:/license/210235A1JMC166XXXXXX.did
```

Use FTP or TFTP to upload the DID file to a local file system.

```
<Sysname> tftp 192.168.10.22 put flash:/license/210235A1JMC166XXXXXX.did
```

Press CTRL+C to abort.

% Total	% Received	% Xferd	Average Speed	Time	Time	Time	Current
			Dload	Upload	Total	Spent	Left
100	1029	0	0	1029	0	43527	--:--:-- --:--:-- --:--:-- 60529

```
<Sysname>
```

Requesting an activation file on INTELBRAS License Management Platform

Adding license keys

1. Access INTELBRAS License Management Platform at <http://www.intelbras.com.br/en/License>.

Figure 2 Accessing INTELBRAS License Management Platform

The screenshot displays the INTELBRAS License Management Platform interface. At the top, there are three tabs: 'License Activation Requests' (selected), 'Device License Transfer Requests', and 'Device License Uninstall Requests'. Below the tabs is a progress bar with four steps: 'Step 1: Enter license information' (active), 'Step 2: Bind to hardware device', 'Step 3: Enter user data', and 'Step 4: Review and activate'. On the right side of the progress bar, there are three links: 'Text Help', 'Installation guide link', and 'Access Community'. Below the progress bar, there is a section for adding license keys. It includes a text input field for the license key, a dropdown menu, and three buttons: 'Search & Add', 'Import & Add', and 'Clear'. Below this section is a table with columns: 'No.', 'License Key', 'Software Barcode', 'Product Description', 'Product Code', 'License Key Status', and 'License Key Type'. The table is currently empty, showing 'No Data'. At the bottom of the interface, there is a 'Next' button and a note: 'To obtain assistance, click [Contact Us](#) to find contacts for your local area.'

2. On the **License Activation Requests** tab, add license keys.

Figure 3 Adding license keys

The screenshot shows the 'License Activation Requests' wizard with three tabs: 'License Activation Requests', 'Device License Transfer Requests', and 'Device License Uninstall Requests'. The 'License Activation Requests' tab is active, showing a progress bar with four steps: 'Step 1: Enter license information' (current), 'Step 2: Bind to hardware device', 'Step 3: Enter user data', and 'Step 4: Review and activate'. Below the progress bar, there is a section for adding license keys. It includes a text input for the license key, a 'Search & Add' button, an 'Import & Add' button, and a 'Clear' button. Below this, there is a table with columns: No., License Key, Software Barcode, Product Description, Product Code, License Key Status, License Key Type, and Remaining Validity Period. The table contains one row with the following data: No. 1, License Key 3130A3UK-TrVLUNf4, Software Barcode 213130A3UK021600..., Product Description SME Access Controller..., Product Code LIS-WX-4-SME, License Key Status Delivered, License Key Type Trial, and Remaining Validity Period 180. At the bottom, there is a 'Next' button.

3. Select license keys to be activated, and then click **Next**.

Binding license keys to the AC

1. Click the **...** icon next to the empty **Device ID** box in the license key entry. In the dialog box that opens, enter the required device information, and then click **OK**.

For information about how to obtain device information, see "[Obtaining device information from the AC.](#)"

Figure 4 Entering device information

The screenshot shows the 'Enter Device Info' dialog box. It has a title bar with a close button. Inside, there are three input fields: 'Custom Device Identifier' with the value 'NEW H3C', '* Device Info File' with the value 'license_21023...did', and '* Device SN' with the value '21023...'. There is a 'Select' button next to the 'Device Info File' field. At the bottom, there are three buttons: 'Yes', 'No', and 'Reset'.

2. Review the bindings carefully. Make sure you understand the impact of the binding operation, and then select the option that explicitly states so.

Figure 5 Reviewing the bindings

The screenshot shows the 'License Activation Requests' wizard with three tabs: 'License Activation Requests', 'Device License Transfer Requests', and 'Device License Uninstall Requests'. The 'License Activation Requests' tab is active, showing a progress bar with four steps: 'Step 1: Enter license information', 'Step 2: Bind to hardware device' (current), 'Step 3: Enter user data', and 'Step 4: Review and activate'. Below the progress bar, there is a section for reviewing bindings. It includes a 'Note' section with three points: 1. A Custom Device Identifier (DID) is a user-defined string that identifies a device for management purposes. It can be a combination of device information such as the device model, IP address, and location, depending on your device identifier conventions. 2. Before you import data, select license keys, export them into a file, and then import that file. 3. Import is not supported when device information contains files. Below the note, there is a table with columns: No., Custom Device Identifier, License Key, Software Barcode, Product Description, Product Code, License Key Status, and License Key Type. The table contains one row with the following data: No. 1, Custom Device Identifier NEW H3C, License Key 3130A3UK-TrVLUNf4, Software Barcode 213130A3UK021600..., Product Description SME Access Controller..., Product Code LIS-WX-4-SME, License Key Status Delivered, and License Key Type Trial. At the bottom, there is a checkbox with the text '* I understand that a license is locked to a device once its license key is bound to that device. All information must be verified carefully to ensure a correct binding.' and two buttons: 'Previous' and 'Next'.

3. Click **Next**.

Specifying customer information

Enter customer information, and then click **Next**.

Figure 6 Customer information

License Activation Requests | Device License Transfer Requests | Device License Uninstall Requests

Step 1: Enter license information | Step 2: Bind to hardware device | **Step 3: Enter user data** | Step 4: Review and activate

[Click here](#) to view text online help

* End Customer Company/Organization: ABC

* Your Company/Organization: ABC

* Contact Person: Zhangsan

* Phone Number: 12345678912

* Email Address: Zhangsan@h3c.com

Zip/Postal Code:

Address:

Project Name:

* Verification Code: w3JA

[This email address will be used to receive the activation result. Please make sure this email address is valid.](#)

[w3JA](#)

[Previous](#) [Next](#)

Reviewing information and activating the licenses

1. Review the license key and device information and then select **I accept all terms of INTELBRAS Legal Statement**.
2. Click **Confirm & Activate**.

Figure 7 Confirming and activating the licenses

License Activation Requests | Device License Transfer Requests | Device License Uninstall Requests

Step 1: Enter license information | Step 2: Bind to hardware device | Step 3: Enter user data | **Step 4: Review and activate**

[Click here](#) to view text online help

No.	Get Activation Info	Custom Device Identifier	License Key	Software Barcode	Product Description	Product Code	License Key Status
1		NEW H3C	3130A3UK-TrVLUNf4-	213130A3UK021600...	SME Access Controller...	LIS-WX-4-SME	Delivered

Total 1 | 10/page | < 1 > | Go to 1

☐ I accept all terms and conditions of [H3C License Service Portal Legal Statement](#)

[Previous](#) [Confirm & Activate](#)

3. Double-check the license key and device information, and then click **OK**.

Figure 8 Confirming information

Confirm

! Verify that all information provided for this activation is correct.

[Cancel](#) [OK](#)

4. Click **Get Activation Info** to download an activation file to the local disk.

Figure 9 Obtaining activation information

License Activation Requests Device License Transfer Requests Device License Uninstall Requests

Step 1: Enter license information Step 2: Bind to hardware device Step 3: Enter user data Step 4: Review and activate

[Click here to view text online help](#)

No.	Get Activation Info	Custom Device Identifier	License Key	Software Barcode	Product Description	Product Code
1	✓ Get Activation Info	NEW H3C	3130A3UK-TrvLUNf4	213130A3UK021600...	SME Access Controller ...	LIS-WX-4-SM

Total 1 10/page < 1 > Go to 1

☒ I accept all terms and conditions of [H3C License Service Portal Legal Statement](#)

Installing an activation file on the AC

⚠ CAUTION:

Back up an activation file before you install it. If the activation file is inadvertently deleted or becomes unavailable for some other reason, you can use the backup activation file to restore the license.

Use FTP or TFTP to upload the activation file to be installed to the AC.

```
<Sysname> tftp 192.168.10.22 get 210235A1JMC166XXXXXX1909581318505.ak
```

Press CTRL+C to abort.

% Total	% Received	% Xferd	Average Speed	Time	Time	Time	Current
			Dload	Upload	Total	Spent	Left
100	2594	100	2594	0	0	42681	0

--:--:-- --:--:-- --:--:-- 48943

Writing file...Done.

Install the activation file.

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

```
[Sysname] license activation-file install flash:/210235A1JMC166XXXXXX1909581318505.ak
```

This operation might take some time. Do not perform any other operations until this operation is completed. Please wait...Done.

```
[Sysname]
```

Verifying the configuration

On the AC, view license information to verify that an AP license has been installed.

```
[Sysname] display license
```

```
flash:/license/210235A1JMC166XXXXXX1909581318505.ak
```

Feature: APMGR

Product Description: Enhanced Access Controller License, 8 APs, for Verticals, for V7

Registered at: 2021-05-19 17:29:14

License Type: Trial (days restricted)

Trial Time Left (days): 180

Current State: In use

Pre-installed License

Feature: APMGR

Feature Description: PreAtom This is APMGR license

Time Left (days): 0
Current State: Expired

[Sysname]

Related documentation

- *License Management Configuration Guide* in *INTELBRAS Access Controllers Configuration Guides*
- *License Management Command Reference* in *INTELBRAS Access Controllers Command References*