



Ruijie Wireless Product Authorization System

User Manual

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Preface

Intended Audience

This document is intended for:

- Network engineers
- Technical support and servicing engineers
- Network administrators

Technical Support

- Ruijie Networks website: <https://www.ruijienetworks.com/>
- Online support center: <https://ruijienetworks.com/support>
- Case portal: <https://caseportal.ruijienetworks.com>
- Community: <https://community.ruijienetworks.com>
- Email support: service_rj@ruijienetworks.com
- Live chat: <https://www.ruijienetworks.com/rita>

Conventions

1. GUI Symbols

GUI Symbol	Description	Example
Boldface	1. Button names 2. Window names, tab name, field name and menu items 3. Link	1. Click OK . 2. Select Config Wizard . 3. Click the Download File link.
>	Multi-level menus items	Select System > Time .

2. Signs

The signs used in this document are described as follows:

Warning

An alert that calls attention to important rules and information that if not understood or followed can result in data loss or equipment damage.

Caution

An alert that calls attention to essential information that if not understood or followed can result in function failure or performance degradation.

Note

An alert that contains additional or supplementary information that if not understood or followed will not lead to serious consequences.

 **Specification**

An alert that contains a description of product or version support.

3. Notes

The manual provides configuration information, including models, port types, and command line interfaces, for reference purposes only. In the event of any discrepancy or inconsistency between the manual and the actual version, the actual version shall take precedence.

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1 Wireless Product Authorization System

1.1 Introduction

The Ruijie Product Authorization (RG-PA) system provides functions for applying, generating, and querying Ruijie product authorization certificates, as well as managing hardware replacement. The system supports the license authorization for application software, switches, and wireless products, which is independently launched by Ruijie Networks (Ruijie for short hereafter). License authorization allows customers who purchase the specified software license to obtain the use right of the corresponding software by installing the license file on the specified device. The license file is available only on the specified device.

A license must be obtained from Ruijie's official website or through their marketing channels. The license is specific to each device. Log in to the website indicated on the purchase credential. Provide the product authorization code and host ID as prompted to obtain the license by downloading it from the authorization system or receiving it via email. Afterwards, install the license file and then you will have access to licensed features. RGOS licenses include official license and temporary license. When you enable a temporary license for a feature, the validity period of the license starts, and after the period expires, the feature will be unavailable. To continue using this feature, you need to purchase an additional license, either official or temporary, from Ruijie's official website or through their marketing channels.

1.2 Concepts

Log in to http://pa.ruijie.com.cn:8001/main_wireless.jsf to bind the license with the device and generate a license file.

1.2.1 License Compatibility

There are two types of licenses:

- (1) The old license developed for the RGOS 10.x version, which is sold in the form of a CD.
- (2) The new license developed for the modular RGOS 11.x version, which is sold with a paper license.

The old license can be installed on a wireless access controller (AC) running RGOS 10.x or 11.x, whereas the new license can be installed only on an AC running RGOS 11.x. You should meet the following guidelines when installing the license:

- The AC running RGOS 10.x can be installed with only the old license.
- The AC running RGOS 10.x can be upgraded to RGOS 11.x without losing the license.
- The AC running RGOS 11.x can be installed with both new and old licenses.

1.2.2 License Uninstallation

The old license cannot be uninstalled, whereas the new license can be uninstalled using the **license uninstall** command.

1.2.3 License Query

Run the **show license all-license** command to display details about the installed old and new licenses. On later versions than RGOS11.1(5)B8, the **show license** command is also supported.

```
WS5708# show license
Serial Number      : 8652EH9530019
No. Activation Key                               AP Number
-----
-----
Total 128 access points are supported, old version 0, new version 0.
```

The last row in the command output displays the expanded capacity of the old and new licenses respectively. The command output also includes the details of the old license, the same as that on RGOS 10.x.

2 Official License

2.1 Registering with a CD License

2.1.1 Obtaining the Authorization Code and Serial Number

- (1) Open the PDF file named **Certification.pdf** in the purchased CD and obtain the 12-digit authorization code.



<u>License Certification</u>	
Date Issue	: 09/12/2013
Purchase Product	: Mobility Exchange Licnese Upgrade
Quantity	: One
Description	: 128 managed MP license upgrade for wlan-ac
Ruijie model	: RG_WS_LIC_128
License	: 880[REDACTED]

An arrow points from the text 'Authorization Code' to the redacted portion of the license number.

- (2) Note the serial number (SN) of the AC to be registered and run the **show version** command to check whether the SN in the command output is consistent with the SN on the AC. The SN is a string of 13 characters.

```
ws6108#show ver
System description      : Ruijie Gigabit wireless Switch(ws6108) By Ruijie Network
System uptime          : 0:00:27:15
System hardware version : 1.01
System software version : AC_RGOS 11.1(5)B80P2, Release(03192522)
System patch number    : NA
System serial number   : G1J115100013A
System boot version    : 1.2.5
```

An arrow points from the text 'AC Serial Number' to the serial number 'G1J115100013A' in the output.

2.1.2 Binding a License

A product can be authorized only after an authorization code is bound to the product.

- (1) Log in to product authorization system http://pa.ruijie.com.cn:8001/main_wireless.jsf and bind the authorization code to the product.

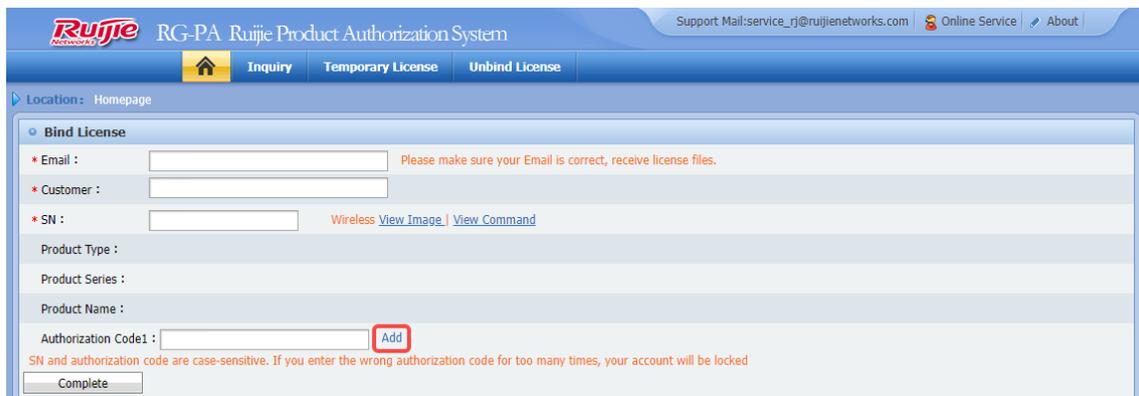
⚠ Caution

- The email address must be real because the account needs to be activated by email. An email address cannot be used repeatedly.
- The device SN is interconnected with Ruijie’s inventory management system. A device not from Ruijie’s inventory management system is not produced by Ruijie by default, and the license binding will fail.

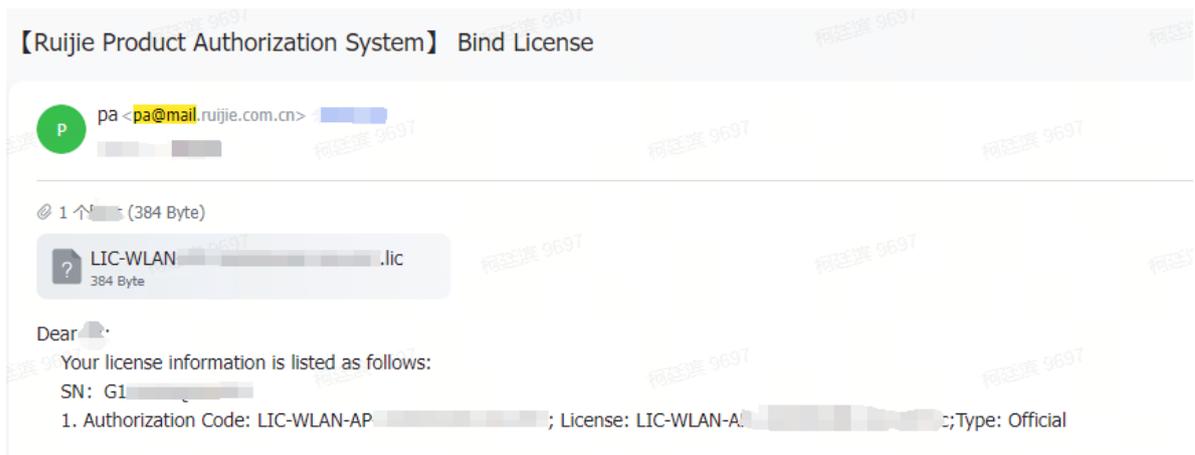
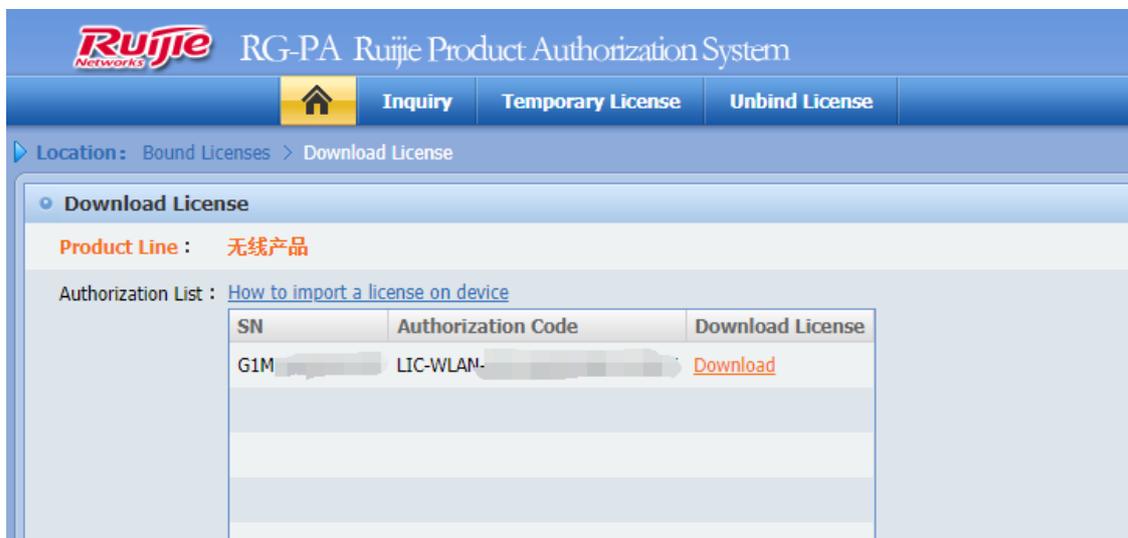


Configuration Item	Description
Email	The email address must be real because the account needs to be activated by email. An email address cannot be used repeatedly.
Customer	Your real name
SN	Serial number of the AC
Authorization Code	Registration code contained in the PDF file in the CD

- (2) To bind multiple authorization codes, click **Add**.



- (3) Click **Complete**. Upon successful binding, a license will be available for download and an activation code will be sent to your mailbox.



2.1.3 Registering a License

Copy the activation code from the Email sent to your mailbox and register it to the AC by using either of the following two methods:

1. Running CLI Commands

Run the **set license** command to register a license.

```
Ruijie#con
Enter configuration commands, one per line. End with CNTL/Z.
Ruijie(config)#set license 1132-C26F-BA8F-4047-F1A7-F6 [REDACTED]
Upgrade license successfully
```

Run the **show license** command to display the added license.

```
Ruijie(config)#show license
Serial Number      : G1J115100013A
No.  Activation Key                               AP Number
-----
1.  1132-C26F-BA8F-4047-F1A7-F6 [REDACTED]      128
-----
Total 160 access points are supported, old version 128, new version 0.
```

Run the **show ac-config** command to display the maximum number of AP connections. **max_wtp** indicates the maximum number of APs supported by the AC. **license wtp max** indicates the license capacity. The smaller value takes precedence.

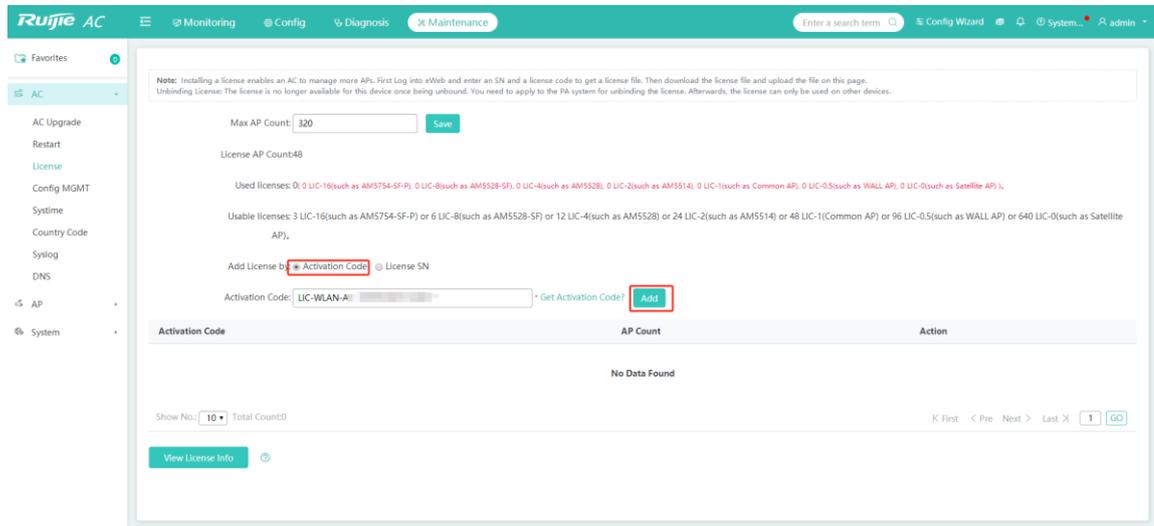
```
Ruijie#show ac-config
AC Configuration info:
max_wtp          :320
sta_limit        :10240
license wtp max  :48
license sta max  :10240
single wtp max   :320
virtual ac max   :4
whole wtp max    :320
serial auth      :Disable
password auth    :Disable
certificate auth :Disable
Bind AP MAC      :Disable
AP Priority       :Disable
supp_psk_cer     :Disable
ac_name          :Ruijie_Ac_7e66fe
ac_location      :AC_LOCATION
permission manage:Disable
```

If you want to change the maximum number of AP connections after the AC running RGOS 10.x is registered with a license, run the following commands:

```
Ruijie# config ter
Ruijie(config)# ac-controller
Ruijie(config-ac)# wtp-limit xxx
Ruijie(config-ac)# end
Ruijie# wr
```

2. Using the Web UI (Taking Version RGOS11.9(6)W3B1 as an Example)

On the AC's Web UI, choose **Maintenance** > **AC** > **License**, select **Activation Code**, enter the 32-bit authorization code, and click **Add**.



Upon successful addition, a success message will appear, and an activation code will be displayed.



2.2 Registering with a Paper License

2.2.1 Obtaining the Authorization Code and Serial Number

- (1) Obtain the authorization code from the purchased paper license.
- (2) Note the SN of the AC to be registered and run the **show version** command to check whether the SN in the command output is consistent with the SN on the AC. The SN is a string of 13 characters.

```
WS6108#show ver
System description      : Ruijie Gigabit Wireless Switch(WS6108) By Ruijie Networks.
System start time      : 2023-11-14 14:58:41
System uptime         : 13:03:03:39
System hardware version : 1.04
System software version : AC_RGOS ( ), Release ( )
System patch number    : NA
System web version     : W
System serial number   : G1MV65Q000022
System boot version    : 1.2.13
Module information:
Slot 0 : WS6108
Hardware version      : 1.04
Boot version         : 1.2.13
Software version     :
Serial number        : G1MV65Q000022
```

2.2.2 Binding a License

(1) Log in to product authorization system http://pa.ruijie.com.cn:8001/main_wireless.jsf and bind the authorization code to the product.

Caution

- The email address must be real because the account needs to be activated by email. An email address cannot be used repeatedly.
- The device SN is interconnected with Ruijie’s inventory management system. A device not from Ruijie’s inventory management system is not produced by Ruijie by default, and the license binding will fail.

Configuration Item	Description
Email	The email address must be real because the account needs to be activated by email. An email address cannot be used repeatedly.
Customer	Your real name
SN	Serial number of the AC
Authorization Code	Registration code contained in the paper license

(2) To bind multiple authorization codes, click **Add**.

- (3) Click **Complete** to redirect to the license download page. Then click **Download** to download the license file your local PC. The file is with the .lic extension.



2.2.3 Registering a License

A product is officially authorized only after the license file is installed and the license function is enabled. Install the license file on the AC by using either of the following two methods:

1. Running CLI Commands

- (1) Upload the license file from your local PC (with IP address 192.168.64.2 for example) to the AC.

```
Ruijie# copy tftp://192.168.64.2/LIC-WLAN-AP-800000015692434.lic flash:/LIC-WLAN-AP-800000015692434.lic
Press Ctrl+C to quit
!
Copy success.
```

- (2) Install the license file.

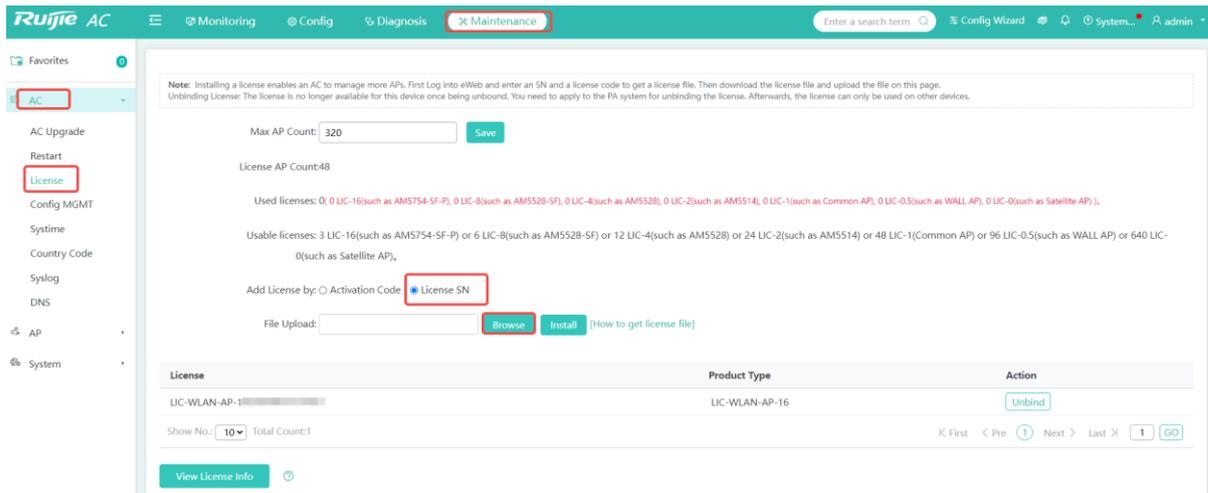
```
Ruijie# license install flash:LIC-WLAN-AP-800000015692434.lic
Are you sure to install this license[y/n]:y
Success to install license file, service name: LIC-WLAN-AP-8 ----> The license is successfully installed, and the expanded capacity is 8.
```

- (3) Check the installed license file.

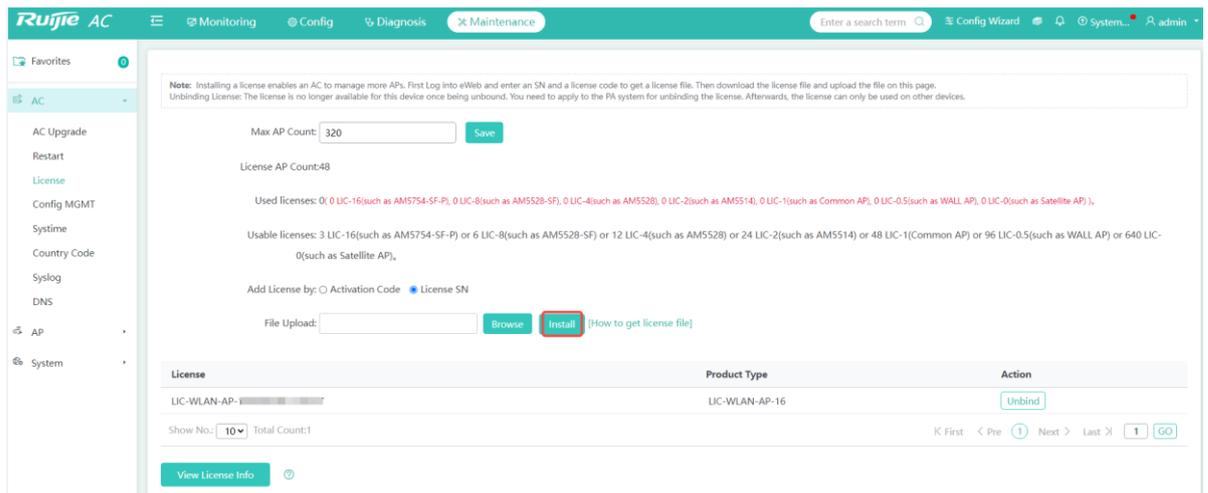
```
Ruijie# show license all-license
Searching license in the system...
Service name: LIC-WLAN-AP-8.----> The license file is installed successfully.
Attribute: Permanent, Multiple_instance, Releasable
Installed licenses(s): 1689029092.lic
```

2. Using the Web UI (Taking Version RGOS11.9(6)W3B1 as an Example)

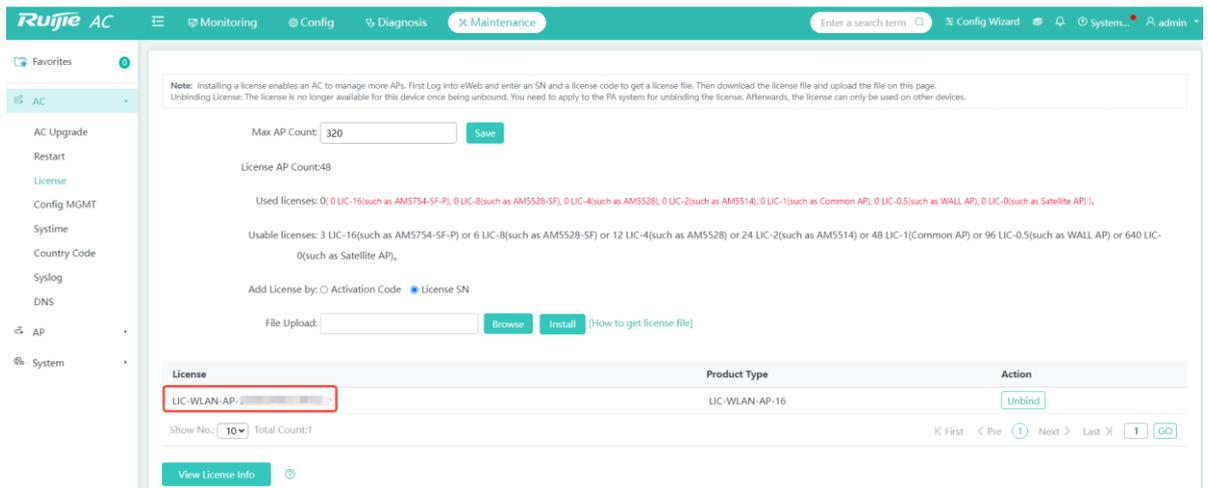
- (1) On the AC's Web UI, choose **Maintenance > AC > License**, select **License SN**, and click **Browse**. Select the downloaded license file.



(2) Click Install.



(3) Once the installation is successful, the license code will be displayed.



3 Temporary License

In some cases, the purchased license has not arrived or the device has insufficient license capacity for spare parts, you can apply for a temporary license to temporarily solve the problem. Then register with the formal license after it is purchased. Each serial number can be used for application for a temporary license up to three times by default. The application for a temporary license beyond three times will be rejected.

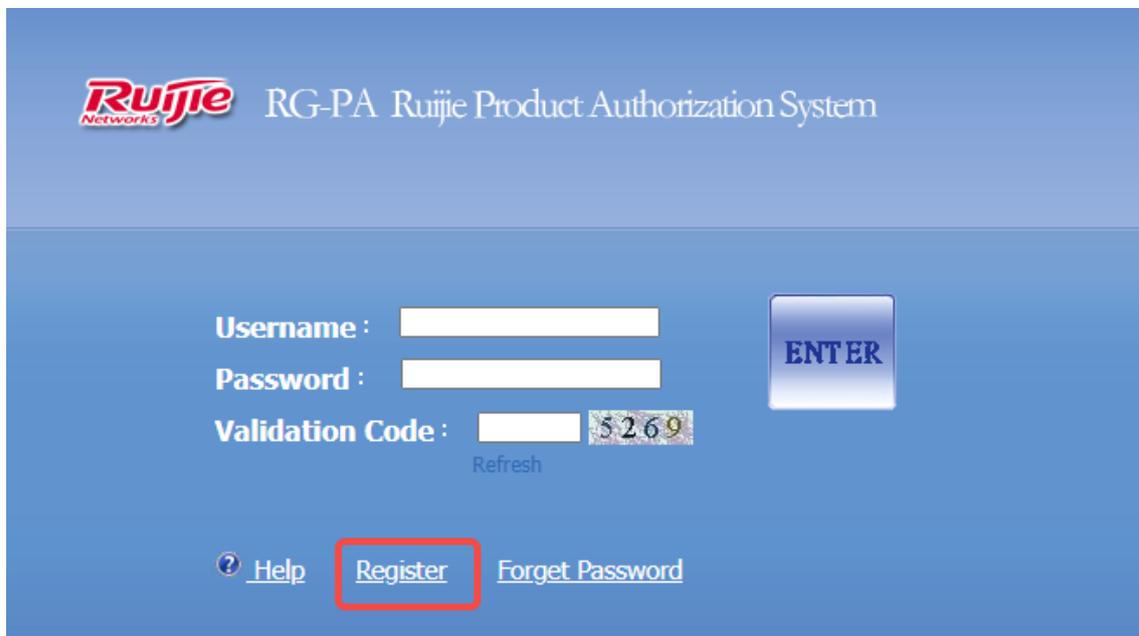
You can apply for a temporary license only after registering an account on RG-PA system.

3.1 Registering an Account

- (1) Log in to product authorization system http://pa.ruijie.com.cn:8001/main_wireless.jsf and click **Temporary License**.



- (2) Click **OK**. The following page will appear. If you have not registered an account, click **Register**.



- (3) Enter the following information.

Rujie RG-PA Rujie Product Authorization System

Support Mail: service_rj@rujienetworks.com | Online Service

Register Forget Password

Location: Register

Please enter account information

- * Username : Username must contain only letters, and digits and cannot contain any of the following characters: <, >, %, \, @, ., ;
- * Real Name : Real name must contain 4-8 characters
- * Password : Password must contain 8-16 Case characters and consist of letters and digits, no spaces allowed
- * Confirm Password :
- * Email : Please make sure your Email is correct
- * Contact Number : Please make sure your contact number is correct
- * Industry :
- * Country/Region :
- * Work Place : Please enter your work place and its address. In the case of license missing, we will verify this information to help your retrieve your license
- * Validation Code : 5904 Refresh

Note : Please check your Email and click on the verification link to activate your account

Complete

Configuration Item	Description
Username	User name or account
Real Name	Your real name
Password	User password
Email	The email address must be real because the account needs to be activated by email. An email address cannot be used repeatedly.
Contact Number	Your phone number
Industry	Industry of your business
Country/Region	Country or region where you are located
Work Place	Company or organization name and address. When the license is lost, the address is mandatory.

(4) After filling in the information, click **Complete**. A pop-up window will be displayed, indicating that the registration is successful. Activate the account as prompted. After the account is activated, you can log in to the system using the account.

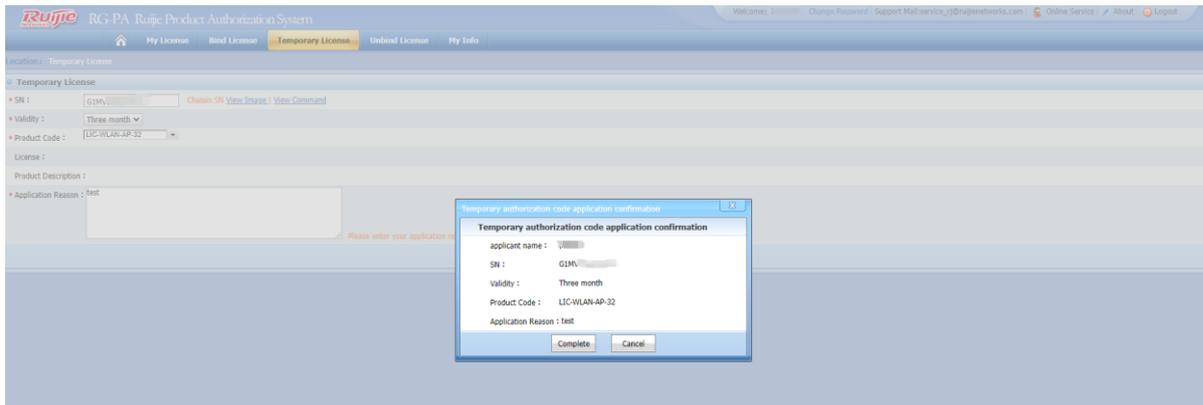
3.2 Applying for a Temporary License

(1) Log in with the activated account. Select **Wireless Temporary License** to bind a temporary license for wireless products.



Configuration Item	Description
SN	SN of the AC
Validity	Validity period of the temporary license
Product Code	Number of manageable APs supported by the temporary license
Application Reason	Reason for applying for the temporary license

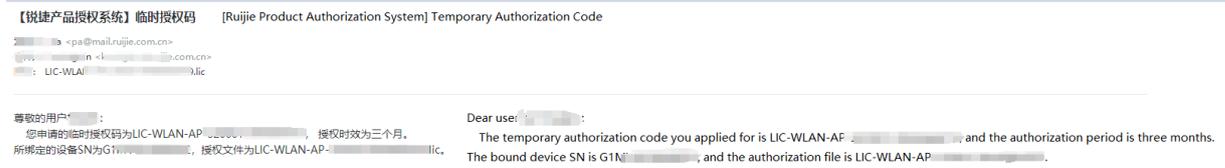
(2) Click **Complete**. In the confirmation dialog box that pops up, click **Complete** again.



(3) Choose **Temporary License > Wireless** to view the review status of the license application.



- (4) When the application is approved, the temporary license is sent to the corresponding mailbox. Log in to the email account to obtain the temporary license file.

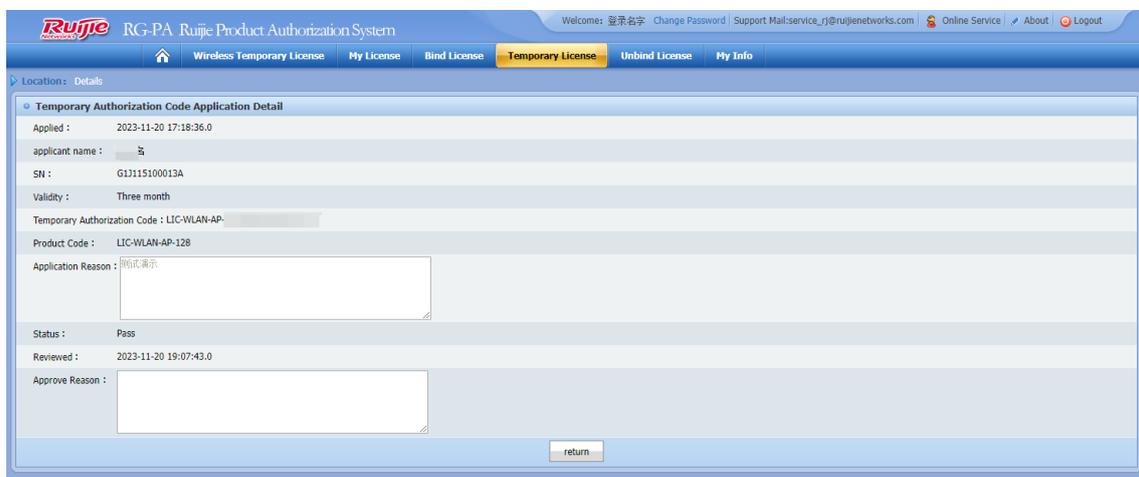


3.3 Installing a License File

This step is described in detail in [2.2.3 Registering a License](#).

3.4 Other Actions

- Choose **Temporary License > Wireless** to view all temporary license applications for wireless products.
- Click **Details** in the **Action** column to view the details of a temporary license application.



- You can filter the temporary license application entries by setting the device SN, authorization code, or application review status, and clicking **Search**.
- Click **Reset** to display all application entries.



- Click **Temporary License** to redirect to the temporary license application page. For details about how to apply for a temporary license, see [3.2 Applying for a Temporary License](#).



4 Unbinding a License

An authorization code can be used on only one device. If you want to use the authorization code on another device due to incorrect license binding or hardware replacement, it is necessary to unbind the license from the original device first. In other cases, the binding cannot be removed by default. There are two types of license unbinding according to the forms of the license: CD license and paper license.

4.1 Unbinding a CD License

(1) Log in to product license system http://pa.ruijie.com.cn:8001/main_wireless.jsf and click **Unbind License**.

(2) Click **OK**. The license unbinding page will be displayed.

Configuration Item	Description
Email	The email address must be real because the account needs to be activated by email. An email address cannot be used repeatedly.
Customer	Your real name
Contact Number	To protect the rights and security of customers, you cannot bind or unbind a license at will. The contact number is required for verification.
CD Authorization	Check this option when you use a CD license.
SN	Serial number of the AC
Authorization Code	Registration code contained in the PDF file in the CD
Verification Code	When multiple verification codes are entered, they must be in the same order as the selected authorization codes. Enter one verification code in each row. Before unbinding the license, upgrade the device to RGOS 11.1(5)B9 or later versions. Commands for unbinding a CD license: In the global configuration mode, run the no set license activation-key command (<i>activation-key</i> refers to the corresponding 32-bit activation code), and run the show apmg debug unbind command to obtain the verification code.
Application Reason	The reason is required. If the verification code is blank, the reason for unbinding the license will be verified.

- (3) Click **Complete**. In the confirmation dialog box that pops up, click **Complete** to submit the application.
- (4) Wait for approval.

 **Caution**

If you enter the verification code, the system automatically unbinds the license. If you leave the verification code blank, you need to wait for manual review.

After receiving your application for unbinding the license, we will complete the information review and reply within 48 hours. Please check your mailbox for the reply. If you need to use the license immediately, apply for a temporary license.

- (5) View the application review result by checking your mailbox for the email. The result can be **Pass** or **Refuse**, as shown in the following figure.

【锐捷产品授权系统】解除授权绑定审批结果 [Ruijie Product Authorization System] Release authorization binding approval result

发件人: pa <pa@mail.ruijie.com.cn>
 收件人: <...@...com.cn>

尊敬的用户: 您在【锐捷产品授权系统】提交解除授权绑定申请已审批, 相关信息如下: 设备SN码: G1MV... 授权码: LIC-WLAN-AP-1... 审批结果:通过

Dear user: ..., your application for unbinding authorization has been approved in the Ruijie Product Authorization System. The relevant information is as follows:

Device SN code: G1MV...

Authorization code:
 LIC-WLAN-AP-...
 Approval result: Passed

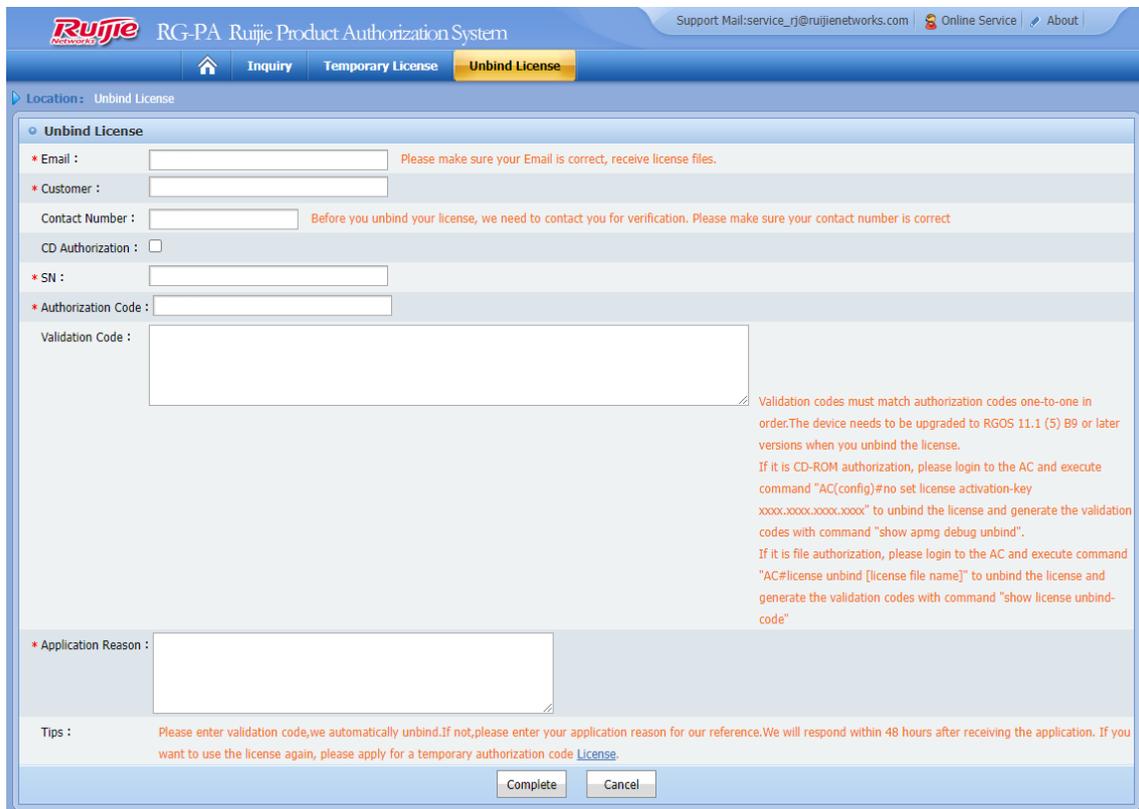
(6) After your application is approved, you can bind the authorization code to another device.

4.2 Unbinding a Paper License

(1) Log in to product license system http://pa.ruijie.com.cn:8001/main_wireless.jsf and click **Unbind License**.



(2) Click **OK**. The license unbinding page will be displayed.



Configuration Item	Note
Email	The email address must be real because the account needs to be activated by email. An email address cannot be used repeatedly.
Customer	Your real name
Contact Number	To protect the rights and security of customers, you cannot bind or unbind a license at will. The contact number is required for verification.
CD Authorization	Do not check this option when you use a paper license.
SN	Serial number of the AC
Authorization Code	Registration code contained in the PDF file in the CD
Verification Code	When multiple verification codes are entered, they must be in the same order as the selected authorization codes. Enter one verification code in each row. Before unbinding the license, upgrade the device to RGOS 11.1(5)B9 or later versions. Commands for unbinding a paper license: In the global configuration mode, run the license unbind pak command (<i>pak</i> refers to the authorization code), and run the show license unbind-code command to obtain the verification code.
Application Reason	The reason is required. If the verification code is blank, the reason for unbinding the license will be verified.

(3) Click **Complete**. In the confirmation dialog box that pops up, click **Complete** to submit the application.

(4) Wait for approval.

Caution

If you enter the verification code, the system automatically unbinds the license. If you leave the verification code blank, you need to wait for manual review.

After receiving your application for unbinding the license, we will complete the information review and reply within 48 hours. Please check your mailbox for the reply. If you need to use the license immediately, apply for a temporary license.

(5) View the application review result by checking your mailbox for the email. The result can be **Pass** or **Refuse**, as shown in the following figure.

【锐捷产品授权系统】解除授权绑定审批结果 [Ruijie Product Authorization System] Release authorization binding approval result

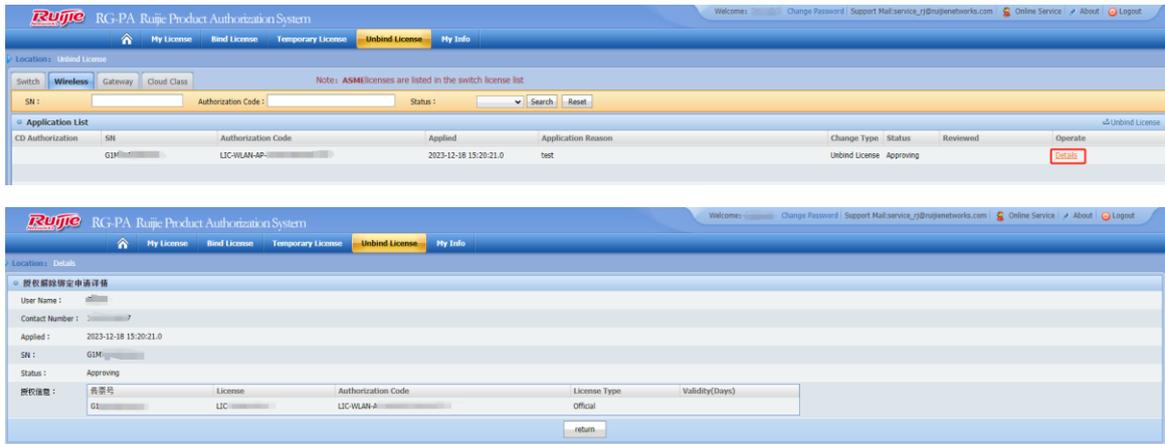
发件人: pa <pa@mail.ruijie.com.cn>
收件人: <pa@mail.ruijie.com.cn>

尊敬的用户: 您在【锐捷产品授权系统】提交解除授权绑定申请已审批, 相关信息如下: 设备SN码: G1MV, 授权码: LIC-WLAN-AP-1, 审批结果: 通过
Dear user: , your application for unbinding authorization has been approved in the Ruijie Product Authorization System. The relevant information is as follows:
Device SN code: G1MV
Authorization code:
LIC-WLAN-AP-1
Approval result: Passed

(6) After your application is approved, you can bind the authorization code to another device.

4.3 Other Actions

- Click **Unbind License > Wireless** to view all license unbinding applications for wireless products.
- Click **Details** in the **Action** column to view the details of a license unbinding application.

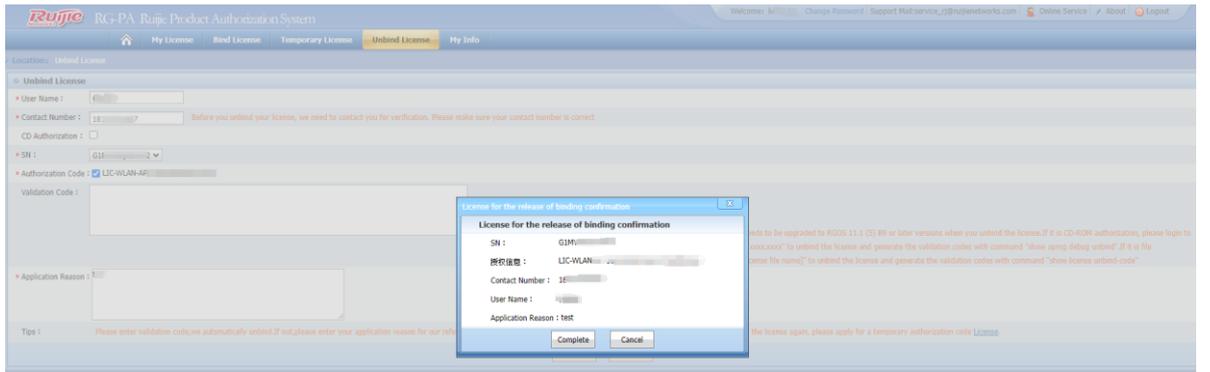
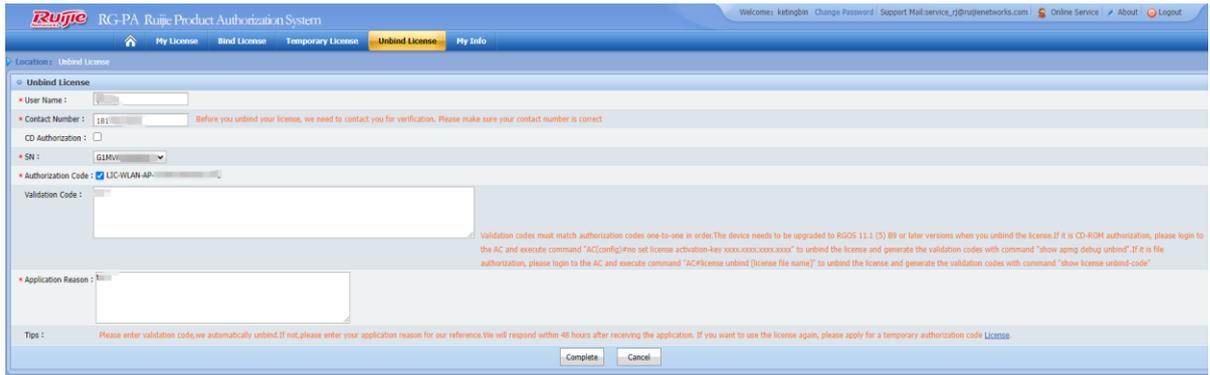


- You can filter the license unbinding application entries by setting the device SN, authorization code, or application review status, and clicking **Search**.
- Click **Reset** to display all application entries.



- Click **Unbind License** to redirect to the **Unbind License** page. For details about license unbinding, see [4.1 Unbinding a CD License](#) and [4.2 Unbinding a](#)





5 Other Actions

5.1 My License

Log in to the system with the registered account. Choose **My License** > **Wireless** to view all licenses available, including official and temporary licenses.



- Set the device SN, authorization code, or license type and click **Search** to filter the temporary license application entries.
- Click **Reset** to display all application entries.
- Select an item and click **Download** to download the authorization code or license file to your local PC.
- Click **Batch Download** to download the authorization codes or license files in batches to your local PC.

5.2 My Info

Log in to the system with the registered account. Click **My Info** to view and modify the information of the account.

Please enter account information

Username :

Real Name :

Password :

Confirm Password :

* Email :

* Contact Number :

* Industry :

* Country/Region :

* Province :

* City :

* Work Place :

Note : Leave the Password text box blank if you do not want to change it

6 FAQs

6.1 License Usage for RGOS 11.X (Meanings of Four, Normal, Half, and Zero)

```

WS5302# show ac-c
AC Configuration info:
max_wtp          :28
sta_limit        :4096
license wtp max  :32
license sta max  :4096
serial auth      :Disable
password auth    :Disable
certificate auth :Disable
Bind AP MAC      :Disable
AP Priority       :Disable
supp_psk_cer     :Disable
ac_name          :Ruijie_Ac_c5789e
ac location      :Ruijie_COM
AC State info:
sta_num          :0
act_wtp          :0
localIpAddr      :192.168.10.254
localIpAddr6     :::
used wtp         :0.0 (0 four 0 normal 0 half 0 zero)
remain wtp       :7 four 28 normal 56 half 256 zero
HW Ver           :1.10
SW Ver           :AC_RGOS 11.1(5)B80P3, Release(03222323)
Mac address      :001a.a9c5.789e
Product ID       :WS5302
NET ID           :9876543210012345
N/AS ID         :9071EHC850002

```

- **four**: An AP occupies four licenses. Only the RG-AM5528 and RG-AM5528 (ES) occupy four licenses respectively, and the RG-AM5514 occupies two licenses.
- **normal**: A general AP occupies only one license. The AP220-E, AP320-I, and AP520 occupy only one license respectively.
- **half**: A wall-plate AP occupies only 0.5 licenses from RGOS 11.x versions.
- **zero**: An AP does not occupy the license. The MAP552(SR) and APD-M do not occupy the license.
- Micro APs of the RG-AM5528/14 function as radio cards. To display the number of micro APs, run the **show ap-config sum slot** command. For the number of MAP552(SR), run the **show ap-sr sum** command.

6.2 How to View the Number of Licenses Used by Each AP? (Available from RGOS11.1(5)B80P2)

```
AC# show ap-config product
```

Product ID	Hardware Version	Count	Used Wtp
AM5528	1.00	245	980.0
AP520	1.00	906	906.0
AP630 (IDA)	1.50	33	33.0
AP630 (IODA)	1.00	83	83.0

6.3 How to Troubleshoot the Failure to Register the License to a RG-M18000-WS-ED?

```
hs7_ws18000-1(config)#set license 48B2-998B-B681-914A-F413-4922-3F4A-B6AD
The license add failed.
hs7_ws18000-1(config)#
```

- (1) Check whether the serial number registered for the license is consistent with the serial number of the target device. If not, the license binding is incorrect. It is necessary to unbind the license and then bind it again.
- (2) If the binding is correct, check whether the license is used up. You can run the **show ac-c** command to display the usage of the current license.
- (3) If the license is not used up, check whether the AC is running RGOS11.1(2)B1 or earlier versions. If yes, upgrade the AC to the latest version.

6.4 How Many APs that an AC can Manage?

Versions earlier than RGOS10.4 (1B19) (excluding 1B19):

Model	Default Number of Manageable APs	Maximum Number of Manageable APs
RG-WS3302	12	12
RG-WS5302 v1.X	16	64
RG-WS5302 v2.03	16	212
RG-WS5504	64	512
RG-WS5708	128	1,024
RG-M8600-WS	128	1,024
RG-M12000-WS	128	1,024

New versions

Model	Default Number of Manageable APs	Maximum Number of Manageable APs
RG-WS6008	32	200 (RGOS11.1(5)b8 and earlier versions) 224 (versions later than RGOS11.1(5)b8)
RG-WS6108	32	320
RG-WS6024	24	24
RG-WS6812	128	1,024 (RGOS11.1(5)b9p11 and earlier versions) 1,600 (RGOS11.9(0)b1) 2,176 (up to 4,352 wall-plate APs) (RGOS11.9(0)b7 and later versions)
RG-WS6816	128	2,560 (Up to 4,000 wall-plate APs) (versions earlier than RGOS11.9(0)b7) 3,200 (Up to 6,400 wall-plate APs) (RGOS11.9(0)b7 and later versions)
RG-M8600-WS-ED	128	2,560 (Up to 4,000 wall-plate APs)
RG-M18000-WS-ED	128	2,560 (Up to 4,000 wall-plate APs)
RG-M6000-WS	32	128
RG-WS7880	128	8,192 (Up to 8,192 wall-plate APs)
RG-WS6512	128	1,152

Note: The number of APs that can be managed by an AC of other models after it is upgraded to RGOS 11.x remains unchanged by default. On RGOS 11.x, a wall-plate AP occupies only 0.5 licenses.

6.5 How to Troubleshoot the Failure to Register the License to the AC?

- (1) If a prompt appears indicating that the serial number is invalid, run the **show version** command on the device to check whether the serial number is correct and note that the SN is case-sensitive.
- (2) If a prompt appears indicating that the license SN is invalid, check whether the registration code contained in the PDF file in the CD is the same as the entered one.

If the fault persists, collect the following information and contact Ruijie technical support team: the **show version** command output, the PDF file in the CD, the screenshot of registration result, the screenshot of the license binding failure prompt.

Note: If the CD is damaged or lost, contact the supply chain personnel.

6.6 How to Transfer a License to Another Device?

- (1) Upgrade the device to RGOS 11.1(5)B9 or later versions. To unbind a CD license, run the **no set license activation-key** command (*activation-key* refers to the corresponding 32-bit activation code). To unbind a paper license, run the **license unbind license name** command. You can view the verification code by running the **show apmg debug unbind** command for a CD license or the **show license unbind-code** command for a paper license.

Note: After the license is unbound, the license activation code will be deleted from the device and cannot be registered to the device again.

- (2) Perform license unbinding on the authorization system. Submit the SN of the original AC, activation code, and verification code for approval. After the license binding is removed, you will obtain an authorization code.
- (3) Perform license binding on the authorization system. Submit the SN of the new AC and authorization code to register a license. Then, obtain a new activation code.
- (4) Register the new activation code to the new AC.

6.7 Can I Register Several Temporary Licenses to a Device at the Same Time?

An AC can be used for application for a temporary license up to three times. The application is automatically approved. An AC is allowed to be installed with only one temporary license with the same capacity or with multiple temporary licenses with different capacities. For example, an AC cannot be installed with two temporary licenses for 32 APs, whereas it can be installed with a temporary license for 32 APs and another for 128 APs.

6.8 How to Register a License in VAC Scenarios?

- (1) Before the Virtual AC (VAC) is deployed, the registration procedure is the same as that for the standalone AC running RGOS 11.x.
- (2) Before the VAC is set up, bind the active AC to one license and the standby AC to another on RG-PA system. After the VAC is set up, register the license to the VAC (Perform configuration on the active AP).

When using a CD license, run the **set license** command on the active AC to identify the authorization code contained in the PDF file in the CD automatically.

```
AC(config)#set license xxxx-xxxx-xxxx-xxxx-xxxx-xxxx-xxxx-xxxx
```

When using a paper license, import the license file to the active AC, and run the **license auto-install flash:** command to register the license automatically.

```
AC#license auto-install flash: xxxxxx .lic
```

If you run this command on the standby AC, the following notification will be displayed:

```
% Can't execute this command in redundancy slave.
```

- (3) The **license install** command can be used to install a license only on the local device.

6.9 Will the AP be Disconnected Immediately After Unbinding the License Using the no set license command?

No. Instead, it will stay online unless the AP is disconnected or the AC is restarted.

6.10 Will the AP be Disconnected Immediately If the Temporary License is Used Up?

No. No matter whether the temporary or formal license is unbound, the AP will not go offline immediately. The license capacity is evaluated only when APs go online. Therefore, an AP is not allowed to go online again if it is disconnected after the temporary license expires.

6.11 Is the License Specific to the Product Type?

- (1) The license for enterprise-class ACs is also applicable to SMB-class ACs.
- (2) The RAC license is specific to SMB-class ACs. The RG-WS6812 which runs a SMB software version and manages SMB-class APs can use only the license for enterprise-class ACs.
- (3) The RAC license for SMB-class ACs is not applicable to enterprise-class ACs.
- (4) The gateway devices use the license for enterprise-class ACs.

6.12 Which ACs is the Temporary License with a Capacity of 8192 Applicable to?

You can specify the product code in the temporary license application to select the number of manageable APs allowed. **LIC-WLAN-AP-8192** indicates that up to 8192 APs are supported. The enterprise-class AC running RGOS 11.9 or later versions can use this license.

6.13 How Do the A series and Enterprise-Class ACs Manage APs?

Differences between the A series and enterprise-class ACs:

- The A series ACs can manage the A series APs.
- The A series ACs can manage the non-A series APs.
- The non-A series ACs running versions earlier than RGOS 11.9(2)B2P4 cannot manage the A series APs. There is no limitation for non-A series ACs running RGOS 11.9(2)B2P4 or later versions.
- The RG-WS7216 running RGOS 11.9(2)B2 or later versions can manage the A series APs.
- The RG-WS6008(C7) running 11.9(2)B2P3 or later versions can manage the A series APs.

6.14 Which ACs is the License with a Capacity of 1 Applicable to?

The license with a capacity of 1 is used to manage the A series and industry-class APs. However, the AC model and version must meet the following requirements:

- The license with a capacity of 1 is supported by the A series ACs without version restrictions: RG-WS7204-A and RG-WS7208-A. It is not supported by the RG-WS2000-A.
- The license with a capacity of 1 is supported by the RG-WS7216 running RGOS 11.9(2)B2 or later versions.
- The license with a capacity of 1 is supported by the RG-WS6008(C7) running RGOS 11.9(2)B2P3 or later versions.
- The license with a capacity of 1 is not supported by the ACs of other models.