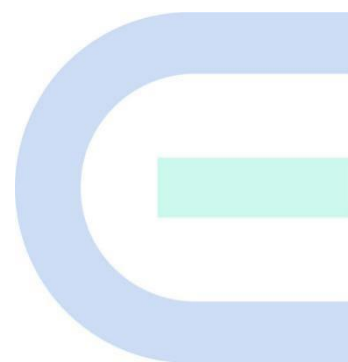


Ruijie Reyee RG-EW300T Wireless 4G LTE Router

Configuration Guide for Importing APN Entries in Batches

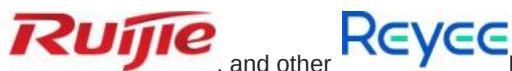


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Preface

Intended Audience

This document is intended for:

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

Technical Support

- Ruijie Reeye website: <https://reyee.ruijie.com>
- Online support center: <https://reyee.ruijie.com/en-global/support>
- Case portal: <https://www.ruijie.com/support/caseportal>
- Community: <https://community.ruijie.com>
- Email support: service_rj@ruijie.com
- Live chat: <https://reyee.ruijie.com/en-global/rita>

Conventions

1. GUI Symbols

Interface symbol	Description	Example
Boldface	<ol style="list-style-type: none">1. Button names2. Window names, tab name, field name and menu items3. Link	<ol style="list-style-type: none">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. Note

This manual introduces the product model, port type and CLI for your reference. In case of any discrepancy or inconsistency between the manual and the actual version, the actual version prevails.

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1 Overview

This document provides a simple and easy-to-understand guide on how to use the Postman tool to import a large number of access point name (APN) entries to Ruijie Reyee RG-EW300T series routers in batches.

1.1 Challenges

In actual device deployment, an APN is a core parameter for connecting a device to an ISP network. APNs vary with ISPs and countries/regions. For example:

- China Mobile typically uses cmnet or cmwap.
- China Unicom typically uses 3gnet or wonet.
- Vodafone, as an international ISP, uses live.vodafone.com.

With traditional configuration methods, each device supports creating a maximum of eight custom APN entries, and engineers must manually enter the entries through the device's eWeb for each device individually. However, this approach has significant limitations in the following scenarios:

- Batch delivery: Hundreds or thousands of new devices need to be configured with the same APN entries, making one-by-one configurations time-consuming and potentially taking several days.
- Repetitive tasks: All devices in the same project have identical parameters, and repeated manual input is prone to fatigue and errors.
- Configuration changes: When an ISP modifies APN parameters, all deployed devices must be manually updated one by one.

1.2 Introduction to the Batch APN Import Solution Using Postman

Postman is a widely used tool for API debugging. This document introduces how to use Postman to call the built-in local APIs of the RG-EW300T series and import prepared APN configuration data in CSV format to the devices in a single operation, enabling automated batch configuration import.

Key advantages of the solution:

- Template reuse: APN parameters can be saved in a standard CSV template file, which is reused for subsequent device configurations without repeated data entry.
- Reduced manual errors: Devices automatically parse CSV files and validate parameter formats, reducing errors caused by repeated manual input on individual devices and improving batch configuration efficiency.
- Simple and intuitive operations: No coding is required. Select the file and click **Send** in the Postman interface to complete the import.
- Quick feedback: Import results are returned in a structured format, making successful and failed imports easy to identify and facilitating troubleshooting.

1.3 Application Scope and Limitations

This solution applies to the RG-EW300T and RG-EW300T-LA device models running R420 or later.

Caution

The batch APN import function can be used only once on each device. To import APN entries again, the device must be restored to factory settings first.

Note

- After the batch APN import function is used once on a device, the **Keep Config** feature is automatically enabled to prevent reseller-imported APN entries from being cleared when the device is restored to factory settings.
 - To disable this feature, log in to the device's eWeb after device initialization and manually disable it. To import APN entries again, restore the device to factory settings first.
-

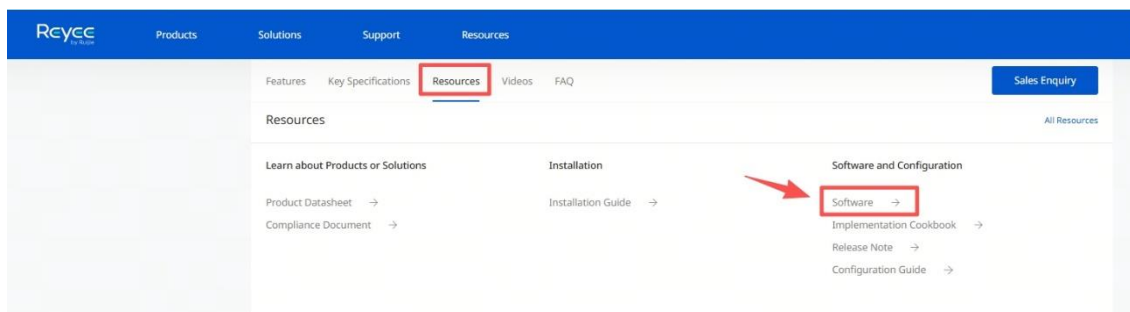
1.4 Document Usage Guide

Section	Description
Device and Software Preparation	Lists the hardware, software, and script files required for the operation.
Template Filling Instructions	Describes the meaning of each field in the CSV template and provides filling requirements.
Postman Operation Procedure	Provides a step-by-step guide to the entire Postman operation process with screenshots.
Import Result and Exception Handling	Explains the returned results and lists common errors and corresponding solutions.

2 Device and Software Preparation

2.1 Postman Software and Scripts

- (1) Postman software: Indicates a tool used to send configuration instructions.
- (2) Postman scripts: Indicate instructions executed by Postman.
- (3) Description of Postman scripts
 - **external_apn_upload_environment.json**: Indicates an environment script used to prepare the working environment before APN entry import.
 - **external_apn_upload.json**: Used to import APN entries, including parameter checks and format validation.
- (4) Acquisition methods:
 - Method 1:
[Click here to download the Postman software and scripts to import APN entries.](#)
 - Method 2:
[Click here to go to the official page of the RG-EW300T.](#) The acquisition entry is available under **Resources** > **Software** as shown in the figure below.



2.2 APN Configuration Template (CSV File)

It is a table used to enter APN entries. For details on how to create and fill in the table, see [3 Template Filling Instructions](#).

3 Template Filling Instructions

APN configuration table: Create a CSV file (Excel is recommended) and enter all APN parameters according to the rule requirements.

Caution

Before using Postman to import APN entries in batches, create an APN configuration template as shown in [3.1 Template Content Example](#), and fill in the APN entries to be imported in the template. APN entries imported using the template cannot be partially updated, added, or deleted. To modify the configurations, you must re-import the APN entries to overwrite the existing ones.

3.1 Template Content Example

Create a text or Excel file, and fill in the information strictly according to the following format. **The headers in the first row must exactly match.**

MCC	MNC	APN	Username	Password	Authentication Type	PDP Type
505	03,99	live.vodafone.com			None	IPv4
429	3	default				
426	1	internet.batelco.com				
262	43	data.lycamobile.de	lmde	plus	MSCHAPV2	IPv4v6
460	01,06,09	3gnet_text				

The figure below shows the same data presented in Excel:

	A	B	C	D	E	F	G
1	MCC	MNC	APN	Username	Password	Authentication Type	PDP Type
2	505	03,99	live.vodafone.com			None	IPv4
3							
4	429	3	default				
5							
6	426	1	internet.batelco.com				
7							
8	262	43	data.lycamobile.de	lmde	plus	MSCHAPV2	IPv4v6
9	460	01,06,09	3gnet_text				

3.2 Template Field Description

Field	Type	Value Range	Mandatory/Optional	Remarks
MCC	string	Maximum length: three characters	Mandatory	Country/Region code
MNC	list	Each value in the list must be a numeric string with a maximum length of three characters, for example, "59" or "103". If the number contains fewer than two digits, add a leading zero, for example, "01".	Mandatory	ISP code: Used to distinguish different ISPs within the same country or region.
APN	string	Maximum length: 31 characters	Mandatory	APN: This is a core field provided by an ISP, such as 3gnet and internet.
Username	string	Maximum length: 31 characters	Optional	APN account name: It is empty for most public APNs, such as 3gnet. This field is required only for some private networks and specific ISPs.
Password	string	Maximum length: 31 characters	Optional	APN account password: It is empty for most public APNs, such as 3gnet. This field is required only for some private networks and specific ISPs.
Authentication Type	string	None (default)	Optional	APN authentication type: If the authentication type is unknown, leave this field empty or enter None .
		PAP		
		CHAP		
		MSCHAPV2		
PDP Type	string	IPv4	Optional	APN Packet Data

		IPv6		Protocol (PDP) type: The default value is IPv4v6 (supporting both IPv4 and IPv6). It can also be set to IPv4 or IPv6 .
		IPv4v6 (default)		

4 Postman Operation Procedure

Caution

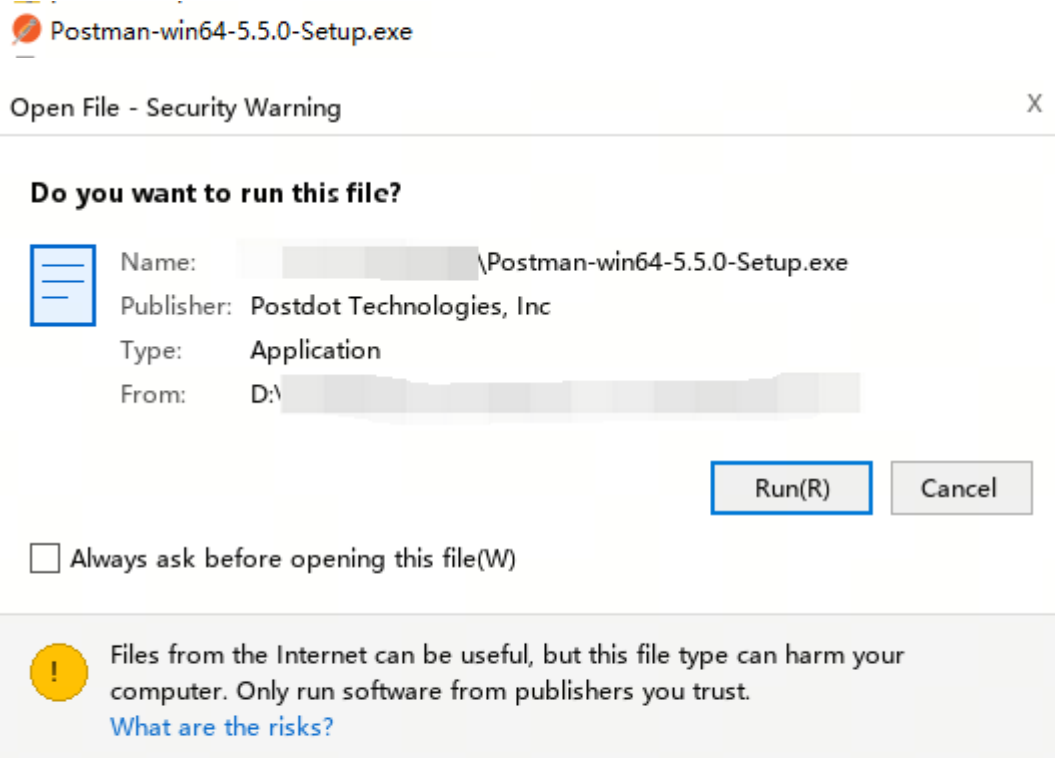
The batch APN import API can only be called by Postman once. That is, regardless of whether the APN import succeeds or fails on the current device, the device must be restored to factory settings before the API can be called again by Postman.

4.1 Importing APN Entries to Multiple Devices

Typical scenarios: Assume that you have a Windows laptop and 20 new RG-EW300T routers. You need to configure five same APN entries on all routers. Prepare the Windows laptop as follows:

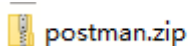
- Install Postman. For the acquisition link, see [2.1 Postman Software and Scripts](#).

Double-click the application file to launch it.



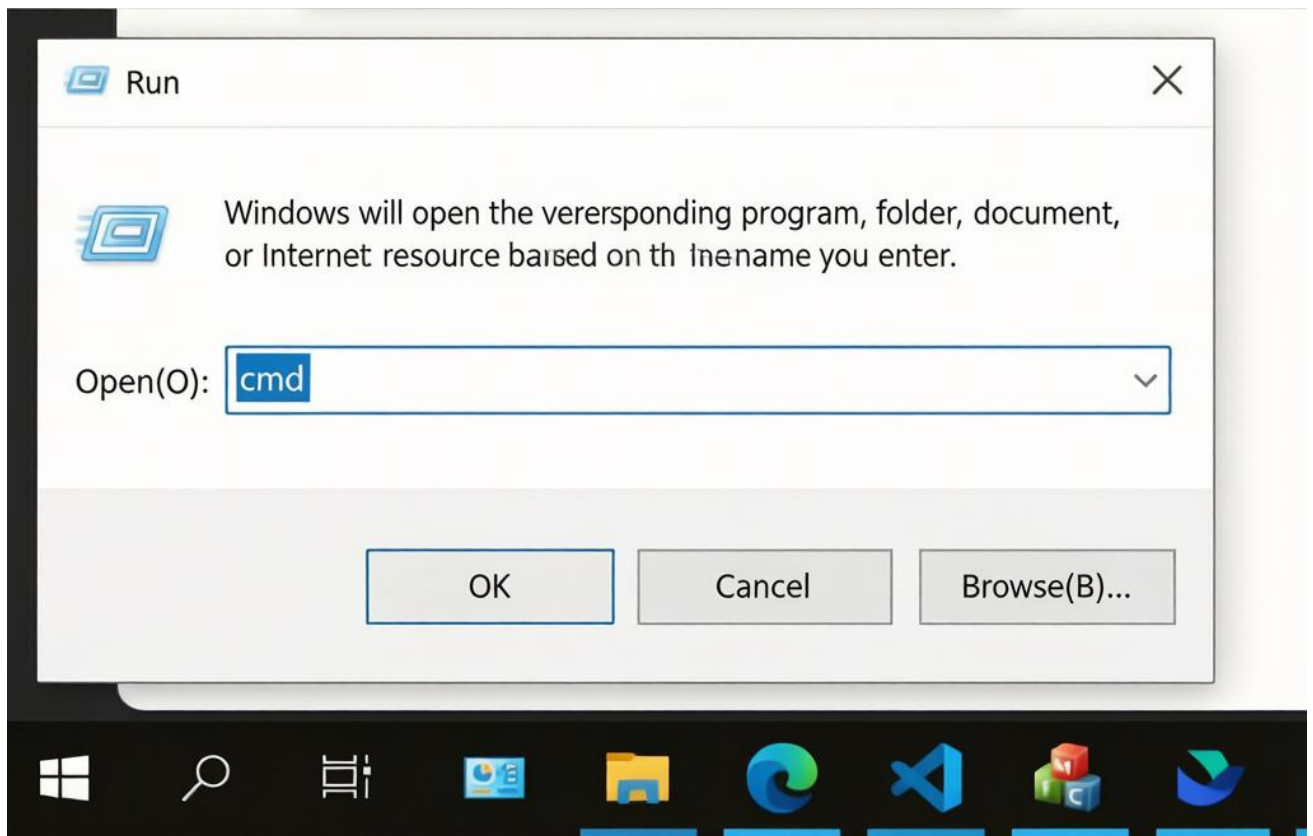
- Prepare the Postman scripts.

Decompress the file to obtain the Postman scripts.



 external_apn_upload.json
 external_apn_upload_environment.json

- Prepare the APN configuration template and fill in the APN entries in the template. For details about the configuration template, see [3.1 Template Content Example](#).
- (1) Wait until all 20 devices have powered on and started up completely, and then configure the devices one by one.
 - (2) Before configuring each device, connect the laptop's Ethernet port to the physical LAN port of the device using an Ethernet cable, and ensure that the laptop's Ethernet port has obtained an IP address (192.168.110.x) from the device using the following steps:
 - (3)
- Press Windows + R to open the **Run** dialog box in the lower left corner of the desktop. Enter **cmd** and click **OK**.



- In the displayed CLI window, enter **ipconfig**. If an IP address in the format of 192.168.110.x is displayed, the laptop's Ethernet port has obtained an IP address from the device.

```

C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.18363.592]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\admin>ipconfig

Windows IP Configuration

Ethernet adapter ASIX USB:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : lan

Ethernet adapter CoryLink Wintun:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Ethernet adapter Realtek PCIe:

    Connection-specific DNS Suffix  . :
    IPv6 Address. . . . . : 2001:db8:1::a198
    Temporary IPv6 Address. . . . . : 2001:db8:1:0:5df3:c273:d350:2431
    Temporary IPv6 Address. . . . . : 2001:db8:1:0:9d0b:d01c:65:27c4
    Temporary IPv6 Address. . . . . : 2001:db8:1:0:c407:8d8d:de4e:41e5
    Temporary IPv6 Address. . . . . : 2001:db8:1:0:b1dd:26ac:15b4:c413
    Temporary IPv6 Address. . . . . : 2001:db8:1:0:b52c:2976:0:c872
    Temporary IPv6 Address. . . . . : 2001:db8:1:0:407:8d8d:da62:fb5b
    Temporary IPv6 Address. . . . . : 2001:db8:1:0:ed72:5b85:7d4f:5a21
    Link-local IPv6 Address . . . . . : fe80::5df3:c273:d350:2431%21
    IPv4 Address. . . . . : 192.168.233.177
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : fe80::15b4:2ff:fe07:5f20%21
                                192.168.233.1

Ethernet adapter VirtualBox Host-Only Network:

    Connection-specific DNS Suffix  . :
    Link-local IPv6 Address . . . . . : fe80::1894:4b27:ce79:9fed%43
    IPv4 Address. . . . . : 192.168.56.1
    Subnet Mask . . . . . : 255.255.255.0

Unknown adapter CoryLink TAP-Windows6:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . : lan
    Link-local IPv6 Address . . . . . : fe80::9c1c:70e2:4660:137b%14
    IPv4 Address. . . . . : 192.168.110.118
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.110.1

C:\Users\admin>

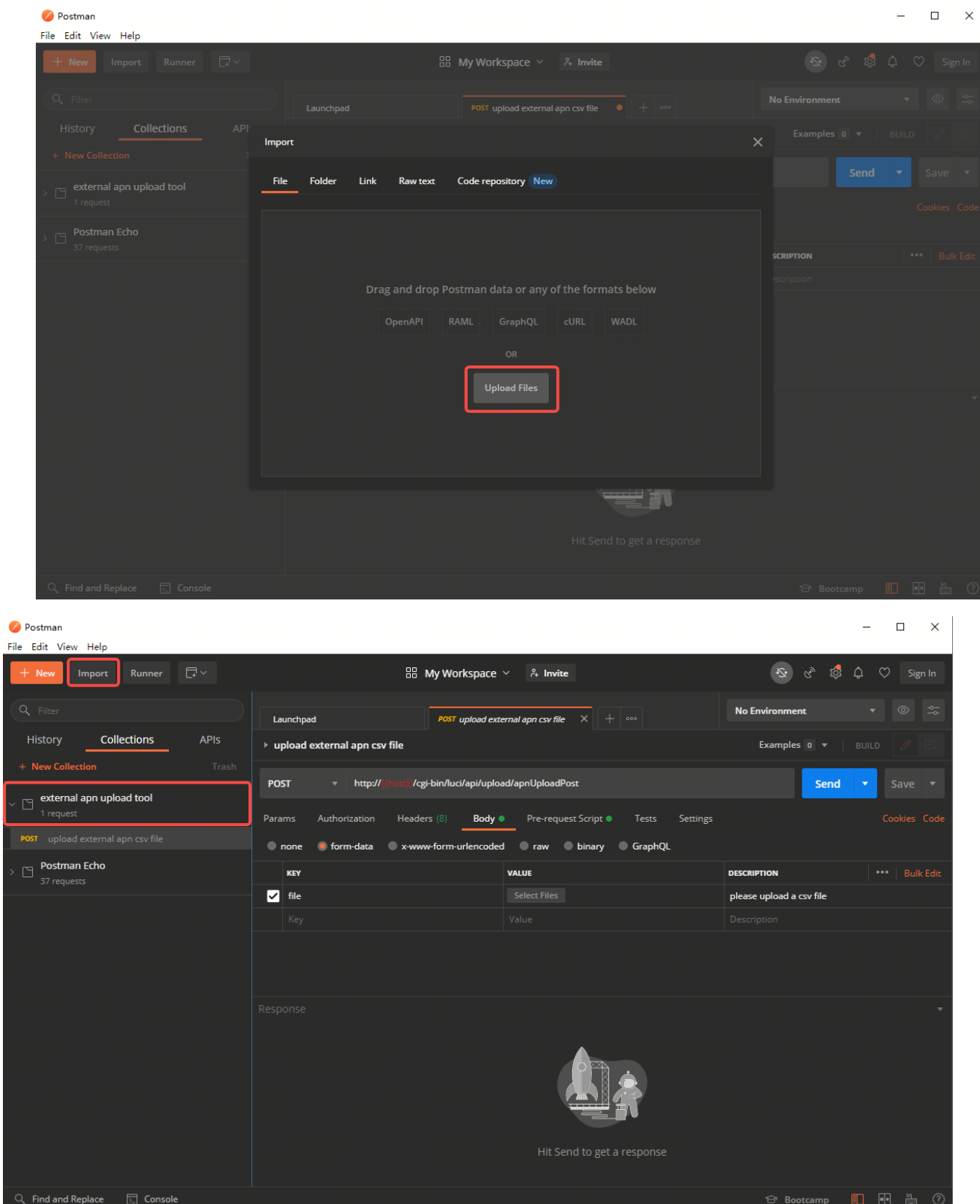
```

- Open Postman on the Windows laptop, import the Postman scripts, and use them to import the APN entries to the device. For details, see [4.2 Importing APN Entries to a Single Device](#).

4.2 Importing APN Entries to a Single Device

(1) Import the main script:

- Click **Import** in the upper left corner of the main interface.
- In the pop-up window, click **Upload Files**, select the **external_apn_upload.json** file, and import it.

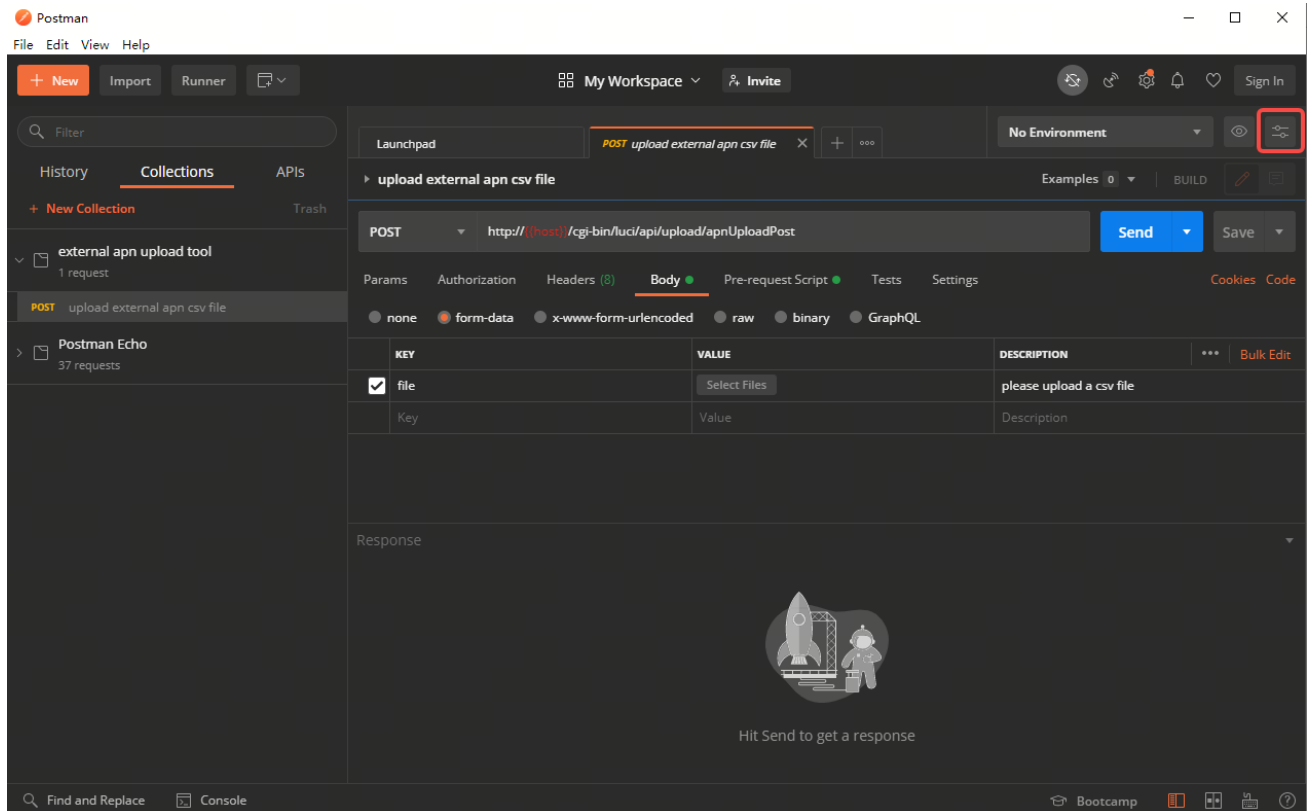
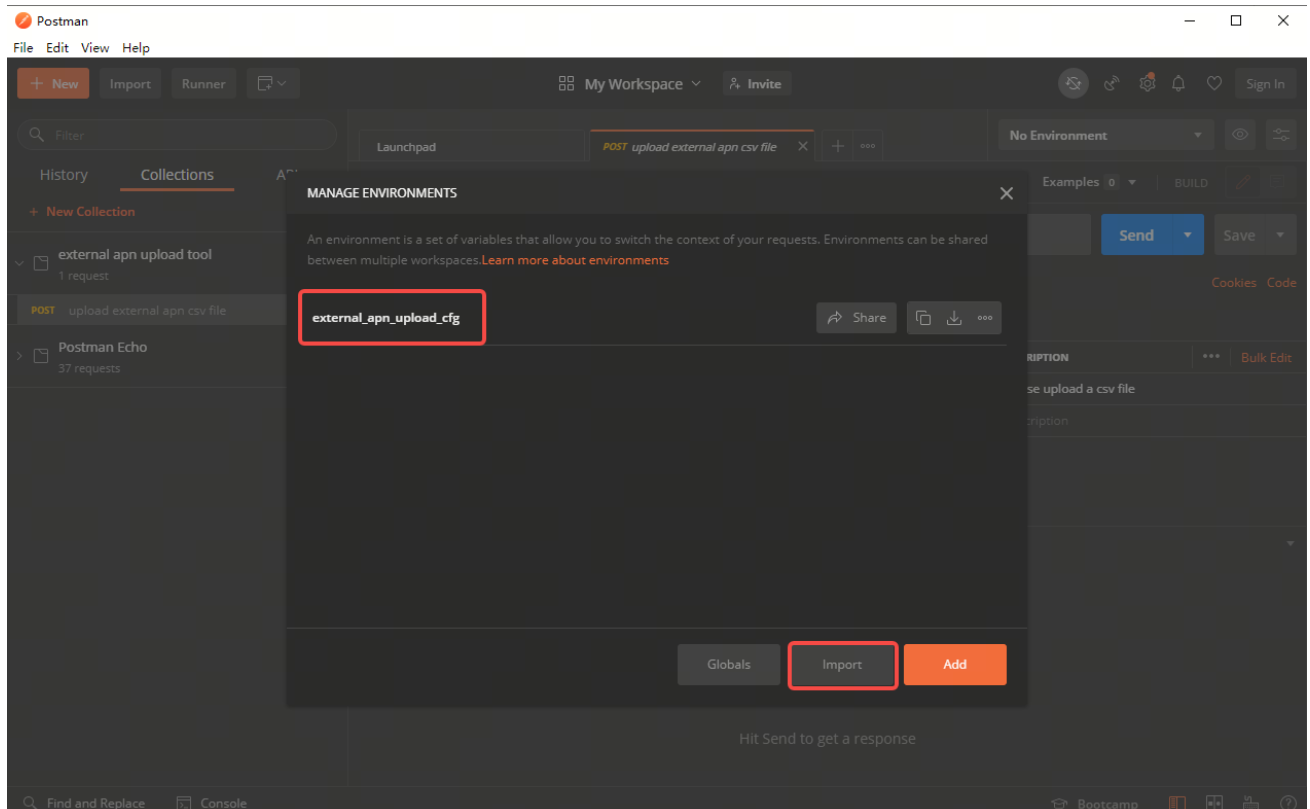


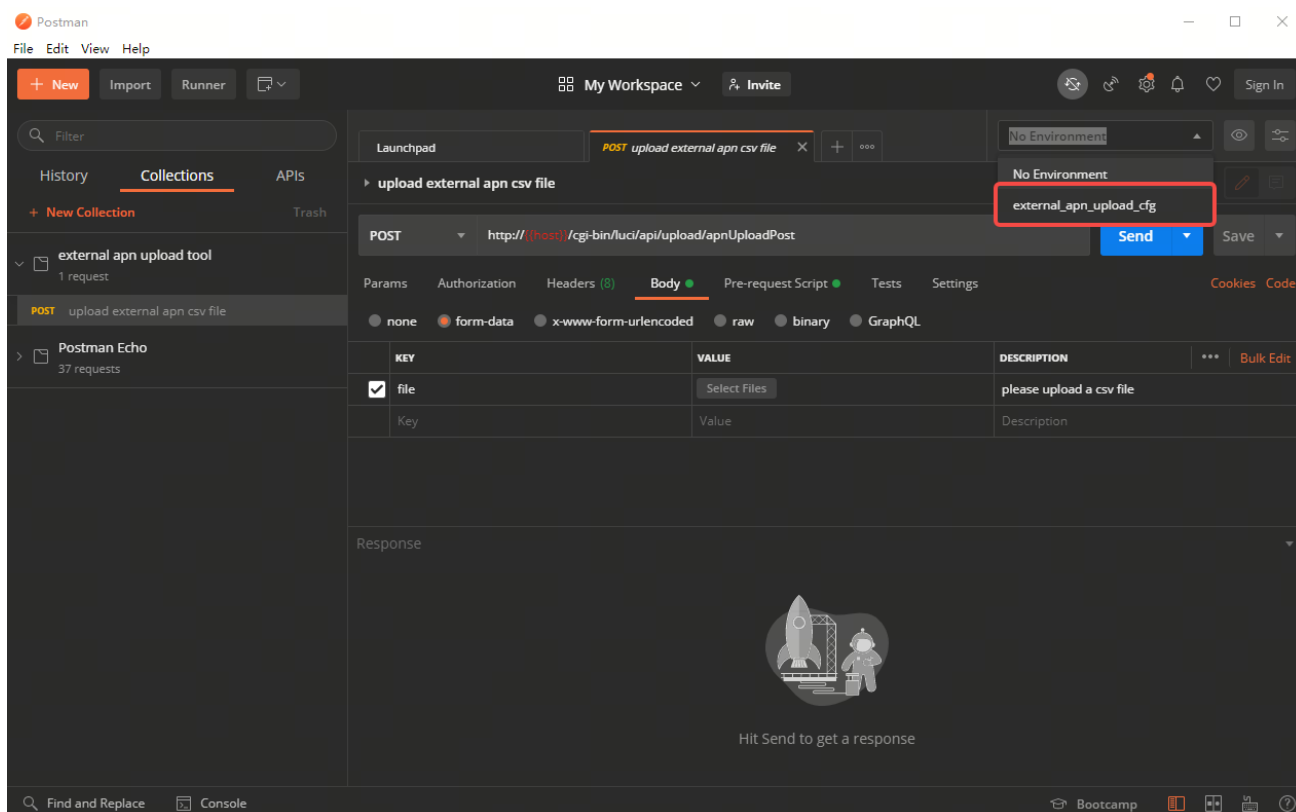
(2) Import the environment script:

- Click the icon in the upper right corner of the main interface and click **Manage Environments**. A pop-up window appears.
- Click **Import** in the lower right corner of the pop-up window to import the environment script

external_apn_upload_environment.json. After successful import, **external_apn_upload_environment.json** is displayed as **external_apn_upload_cfg** in the pop-up window.

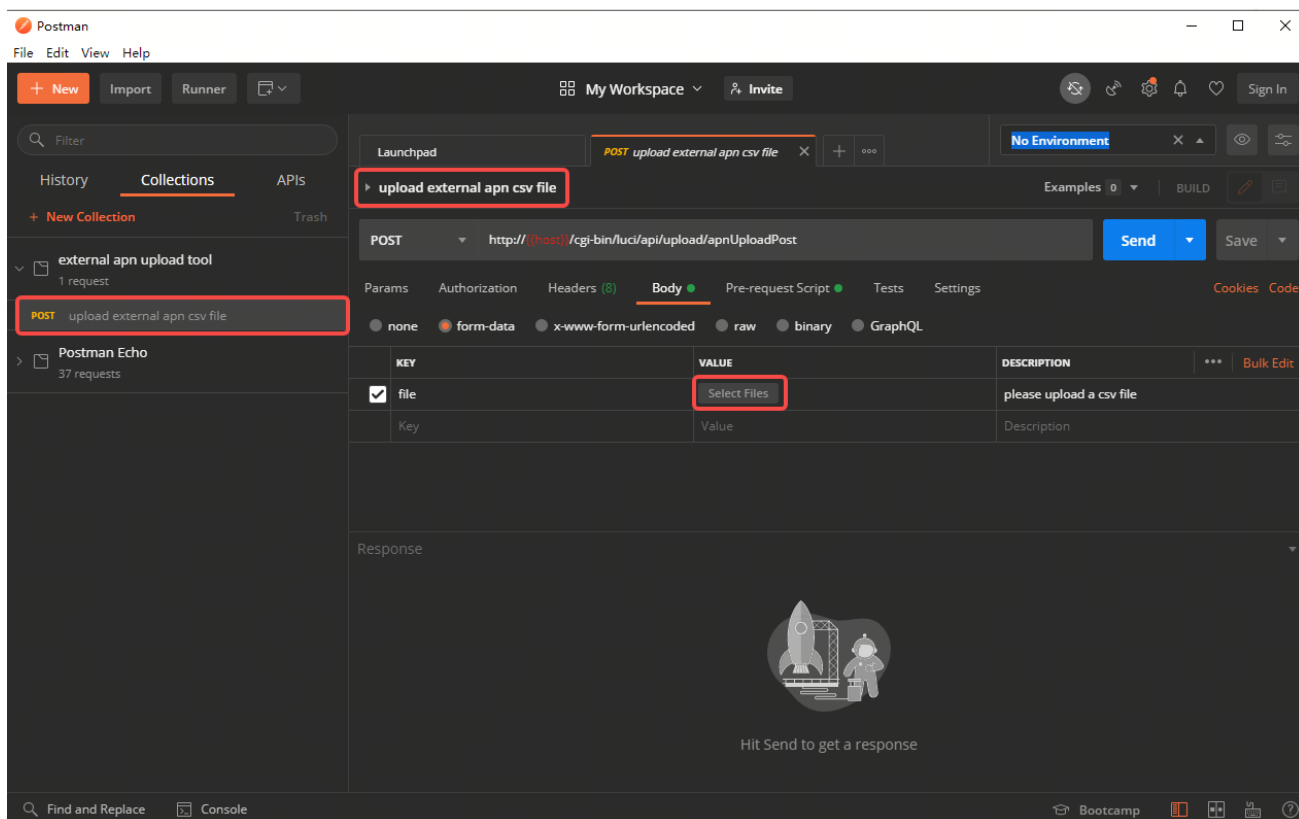
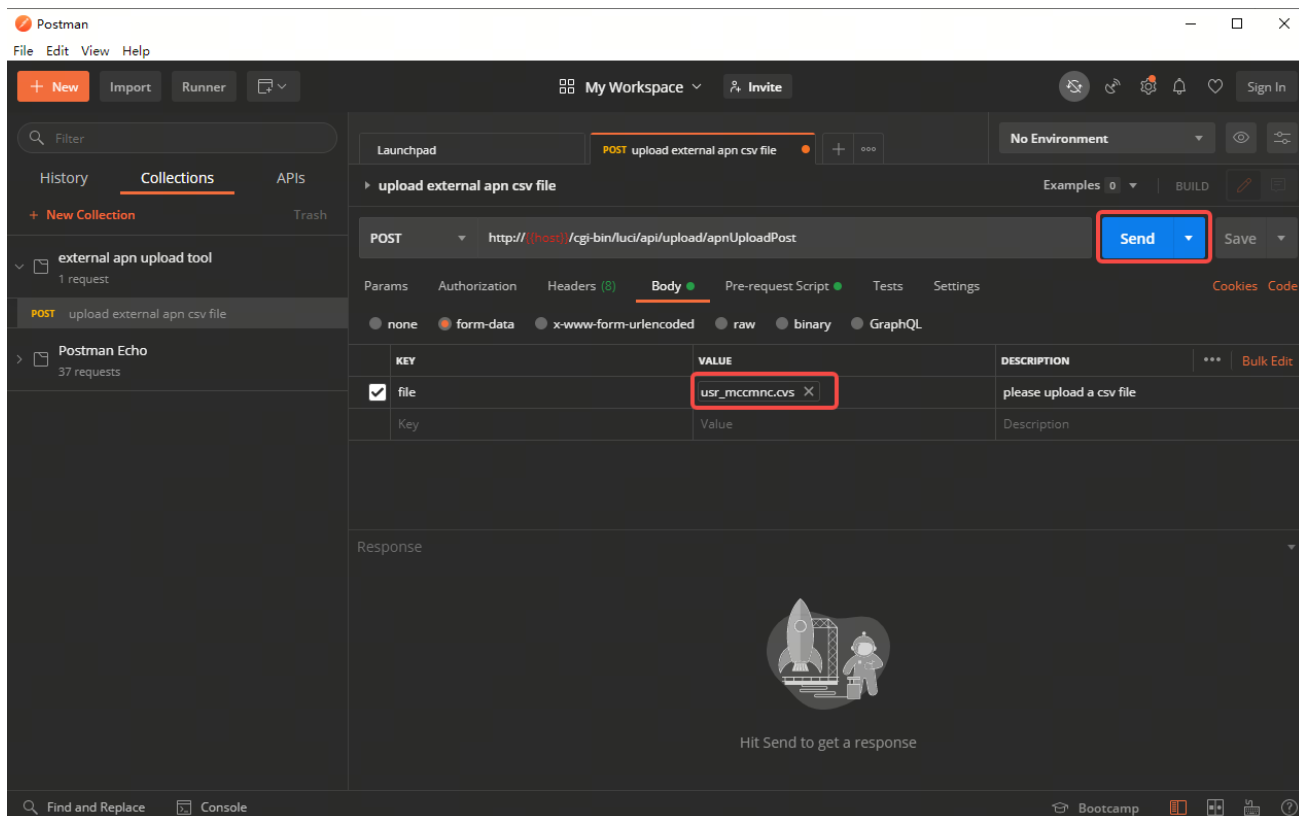
- Close the pop-up window and select **external_apn_upload_cfg** from the drop-down list in the upper right corner.





(3) Perform the import operation. For details about an APN template file example, see [3.1 Template Content Example](#).

- Select **upload external apn csv file** in the left pane.
- Click **Select Files** as shown in the following figure, and import the APN template file that has been configured with APN entries.
- Then, click the blue **Send** button in the upper right corner to import APN entries in batches.



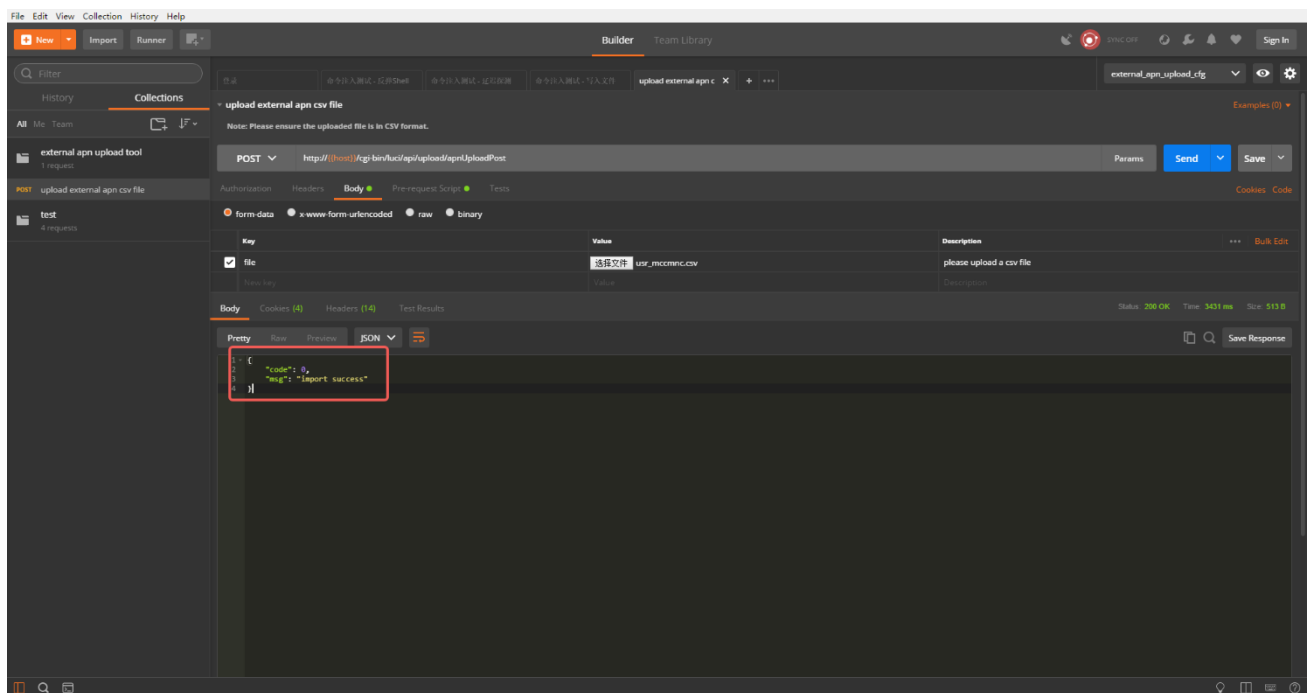
5 Import Result and Exception Handling

After you click Send, Postman returns a JSON-formatted response (receipt) in the lower section. You only need to check the following two key fields.

5.1 Normal Result

- If the information shown in the figure below is displayed, the APN entries have been successfully imported to the device.

```
{  
  "code": 0,  
  "msg": "import success"  
}
```



5.2 Exception Result

5.2.1 Device Has Been Deployed, or the Batch APN Import Function in Postman Has Been Used Repeatedly

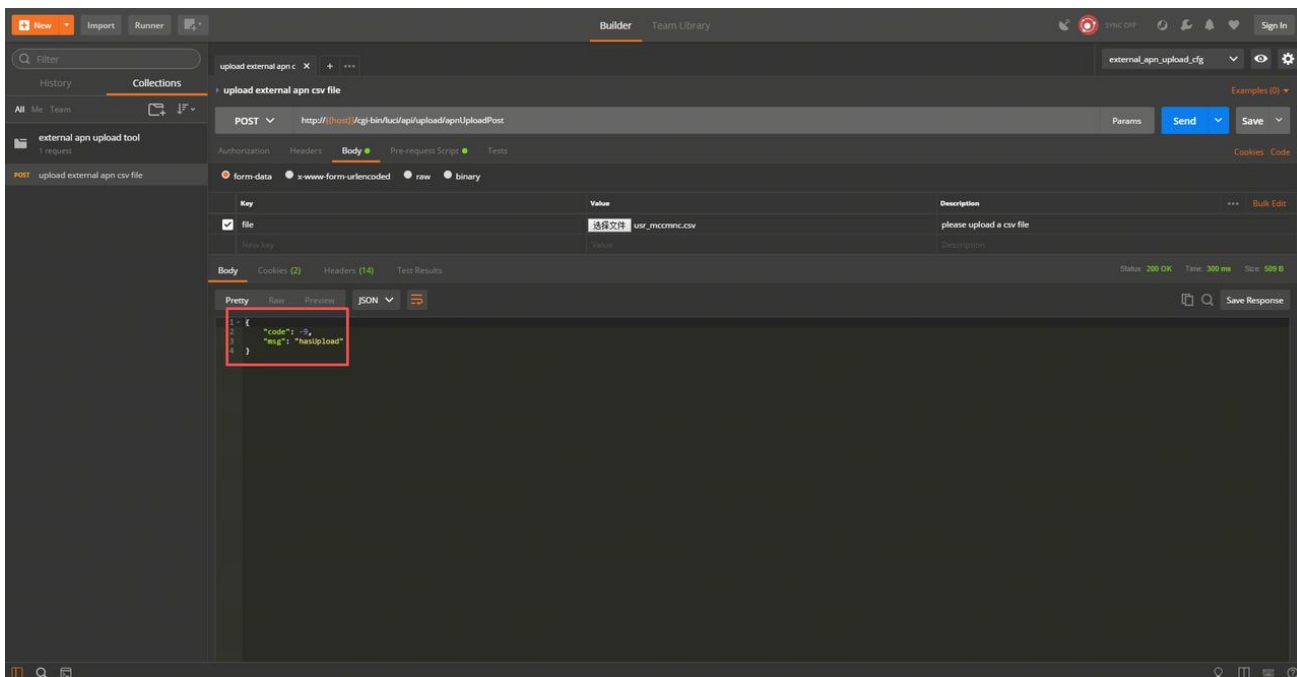
- Phenomenon: The following fields are displayed:

```
{  
  "code": -9,  
  "msg": "hasUpload"  
}
```

- Cause: The device has been deployed, or the APN entries have been successfully imported once before. This

function can only be used once.

- Solution: If you need to import the APN entries again, restore the device to factory settings by pressing and holding the RESET button, and then start the procedure from the beginning.

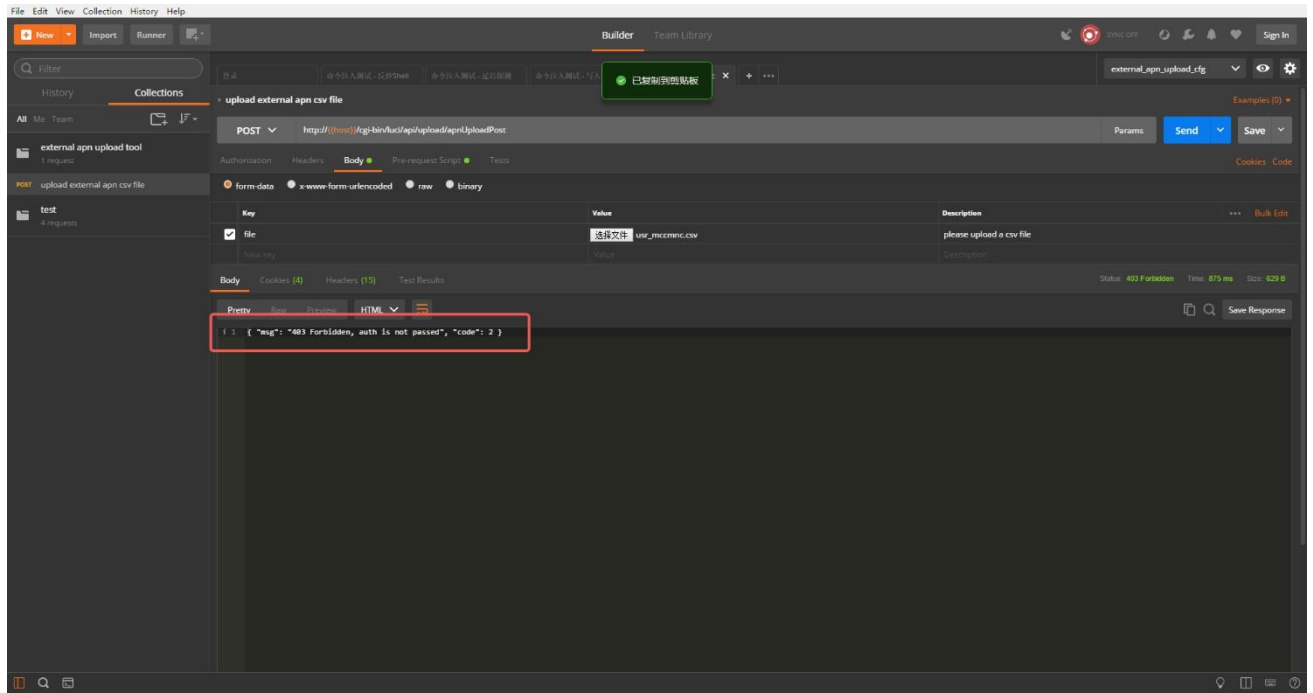


5.2.2 Device Firmware Version Does Not Support Batch APN Import

- Phenomenon: The following fields are displayed:

```
{  
  "msg": "403 Forbidden, auth is not passed",  
  "code": 2  
}
```

- Cause: The device firmware version is earlier than R420 and does not support batch APN import.
- Solution: Upgrade the device firmware to R420 or a later version, restore the device to factory settings, and try again.



5.2.3 APN Configuration File Is Abnormal

- Phenomenon: The following fields are displayed:

```
{
  "msg": "import fail, exceed max apn limit",
  "key": 1000,
  "code": -3
}
```

- Cause: The APN configuration file contains errors, such as exceeding the maximum number of supported entries or containing incorrect configuration information.
- Solution:
 - Check whether the table headers (case-sensitive) in the CSV file are consistent with those in the template.
 - Check whether data in the MNC column is in the correct format, for example, add leading zeros to numbers and separate multiple values with commas.
 - Delete unnecessary APN entries. The number of APN entries cannot exceed 1000, which is the maximum number supported by the device.
 - After correcting the file, restore the device to factory settings before attempting the import again.
- The following figure shows an example of exceeding the maximum number of configurable entries.

