



# **Supermicro Product Key Retrieval User's Guide**

**Revision 1.1**

# Revision History

Revision	Change Notes	Publish Date
1.0	Initial release of the document.	December 2021
1.1	Added descriptions of Product Key API.	August 2022

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# 1 Introduction

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Supermicro software license keys are designed to regulate the use of paid functions for BMC and software tools. When users want to unlock licensed features in BMC, they are required to activate the software license keys in the BMC firmware. Each key is unique to a motherboard, as a key is tied to a specific BMC MAC address. All Supermicro software license keys are perpetual, remaining valid for the life span of the hardware (motherboard).

Users may generate any number of keys at different times up to the number of keys purchased. If a request exceeds the number of keys purchased the request will be denied.

## 2 Method

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### 2.1 Obtaining Keys through a Web Browser

Follow the steps below to generate license keys on the Product Key Retrieval site.

Step 1. Create a text file containing either BMC/IPMI MAC address(es) or motherboard serial numbers (S/N); both types of entries cannot be mixed in the same file. Also note that each entry should be on one line with no special characters or blank spaces.

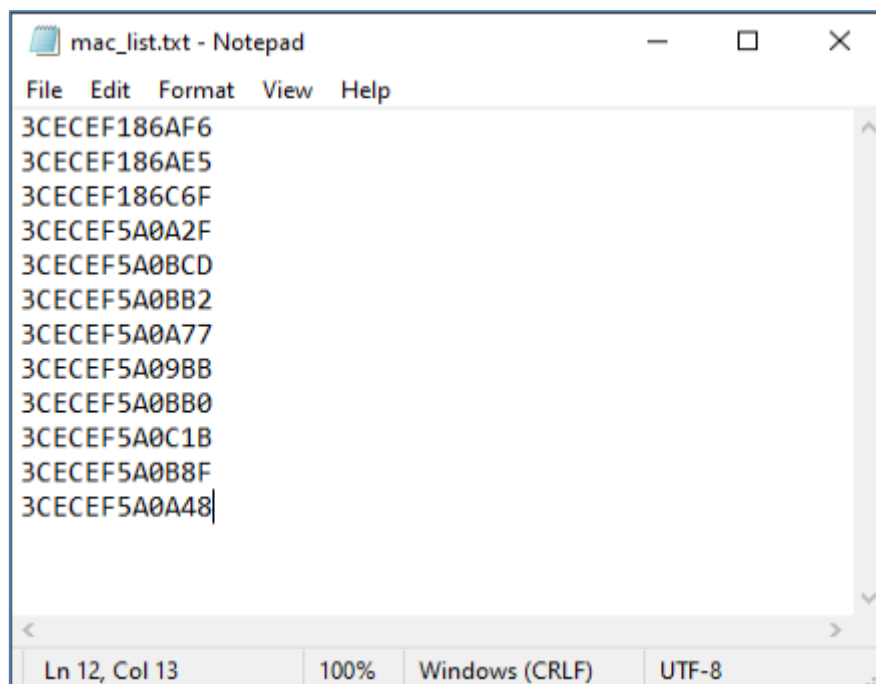


Figure 1

Step 2. Sign into your account on eStore at <https://store.supermicro.com/software/enterprise>.

Free Shipping to the Continental US Over \$200 (Excluding rail kits and systems)

**SUPERMICRO** | eStore

Keyword, Part#, Model# ...

Account Cart

Sign In Register

Systems ▾ Cables ▾ Hard Drives ▾ Memory ▾ Server Accessories ▾ Trans ▾ Lifestyle ▾

## Customer Login


**Introducing Servers: Servers Now Available to Configure and Order**  
All fully-configured and validated to meet your most demanding workloads. [Configure Now](#)

### Registered Customers

If you have an account, sign in with your email address.

Email \*

Password \*

I'm not a robot  reCAPTCHA  
Privacy - Terms

[Sign In](#) [Forgot Your Password?](#)

\* Required Fields

### New Customers

Creating an account has many benefits: check out faster, keep more than one address, track orders and more.

- Check warranty information
- Free shipping over \$200
- View and track order status
- Find validated parts for your system
- Faster checkout
- Save multiple shipping addresses

[Create an Account](#)

Figure 2

Step 3. After signing in, click **Account** on the top pane, select **My Account**, and then click **Enterprise Account** on the left sidebar.

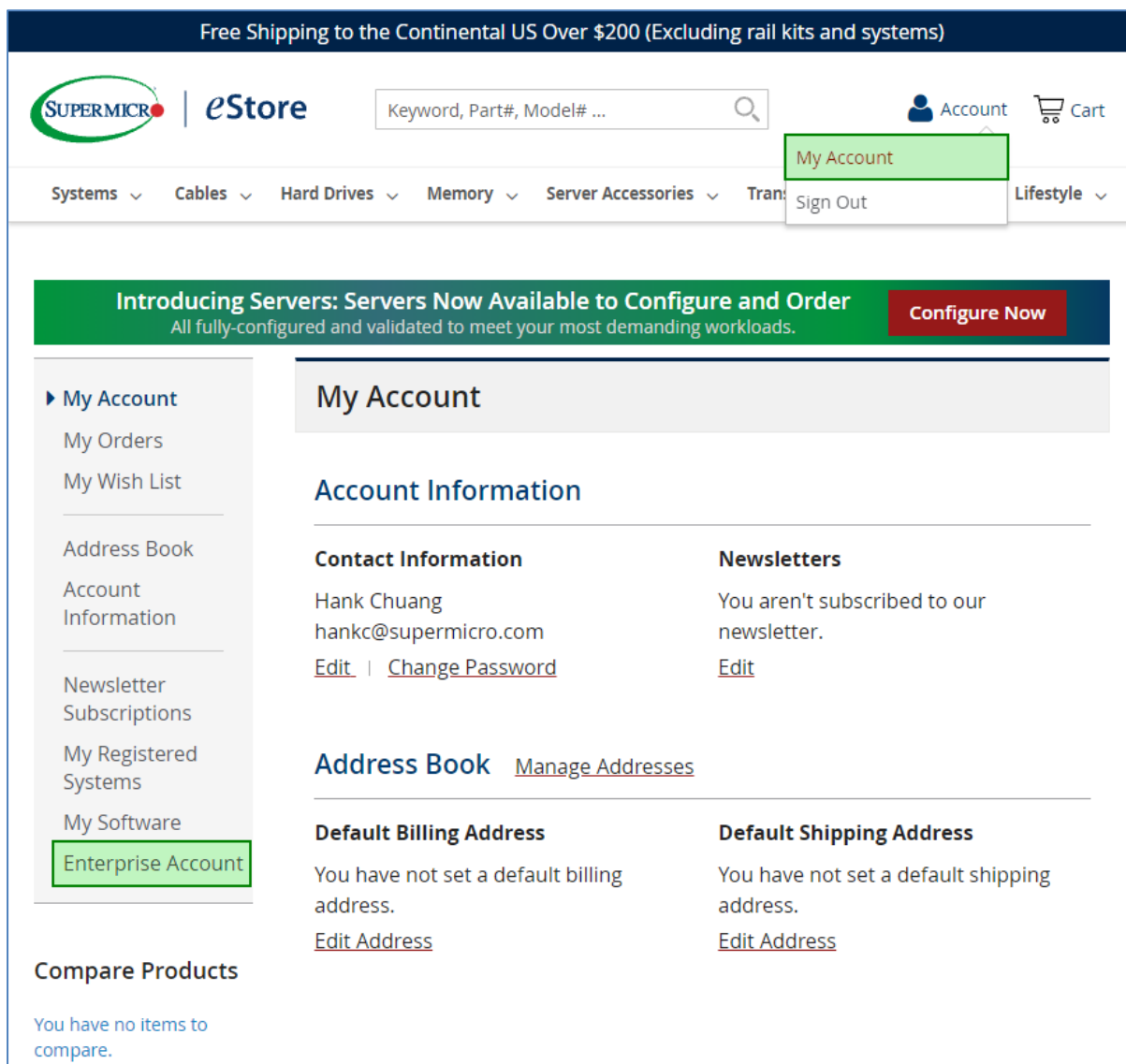


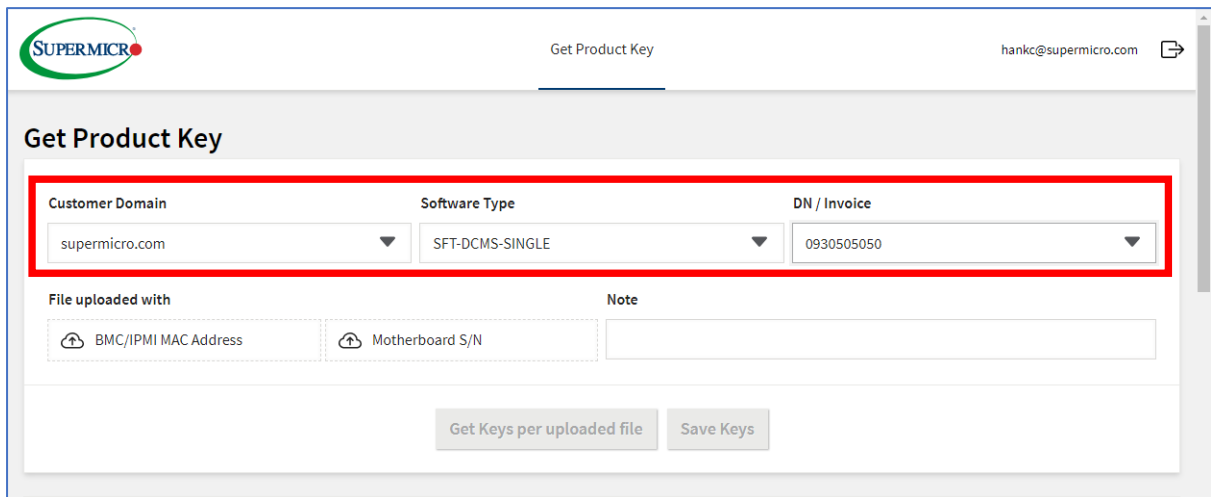
Figure 3

Step 4. Click the **Product Key Retrieval** image.

The screenshot displays the Supermicro website's user interface. At the top, the Supermicro logo is on the left, and navigation links for Products, Solutions, Company, News, Support, a shopping cart, search, and user profile are on the right. A dark blue navigation bar contains links for eStore, Systems, Cables, Hard Drives, Memory, Server Accessories, Transceivers, Software, and Lifestyle. Below this is a white banner for free shipping. A green promotional banner for servers is also present. The main content area is titled 'Supermicro Enterprise Account'. On the left is a sidebar with account-related links. The central focus is a 'Product Key Retrieval' window. This window has a 'Get Product Key' section with dropdowns for Customer Domain, Software Type, and DN/Invoice. It also includes fields for 'File uploaded with' (BMC/PMI MAC Address and Motherboard S/N) and a 'Note' field. Below these are 'Get Keys per uploaded file' and 'Save Keys' buttons. A table below shows columns for DN, #Avail.Keys, #Mac.Keys, Timestamp, #B Serial, MAC Address, Product Key, and Note, with a message 'No data available in table'. A disclaimer at the bottom of the window states that the items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination.

Figure 4

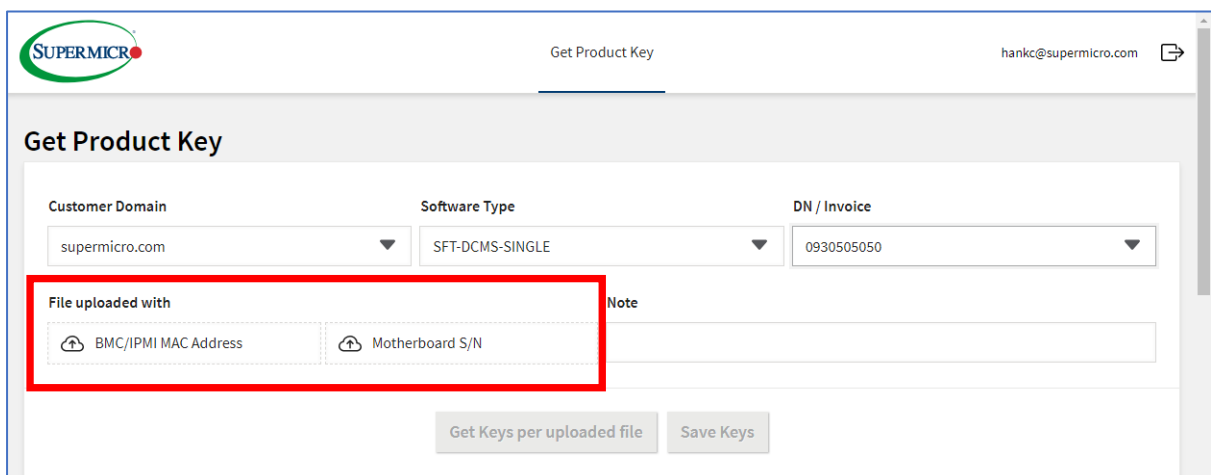
Step 5. On the Get Product Key webpage, use the **Customer Domain**, **Software Type** and **DN / Invoice** drop-down menus to make selections.



The screenshot shows the 'Get Product Key' webpage. At the top left is the SUPERMICR logo. The page title is 'Get Product Key' and the user is logged in as 'hankc@supermicro.com'. The main form has three dropdown menus: 'Customer Domain' (selected: supermicro.com), 'Software Type' (selected: SFT-DCMS-SINGLE), and 'DN / Invoice' (selected: 0930505050). These three dropdown menus are highlighted with a red rectangular box. Below them are two radio buttons: 'BMC/IPMI MAC Address' and 'Motherboard S/N'. A 'Note' text area is also present. At the bottom are two buttons: 'Get Keys per uploaded file' and 'Save Keys'.

Figure 5

Step 6. Select either **BMC/IPMI MAC address** or **Motherboard S/N** for the type of text file you wish to upload.



This screenshot is identical to Figure 5, but the red rectangular box highlights the two radio buttons under the 'File uploaded with' section: 'BMC/IPMI MAC Address' and 'Motherboard S/N'. The dropdown menus above are no longer highlighted.

Figure 6



Step 7. Select the text file you created containing MAC addresses or serial numbers and click the **Open** button.

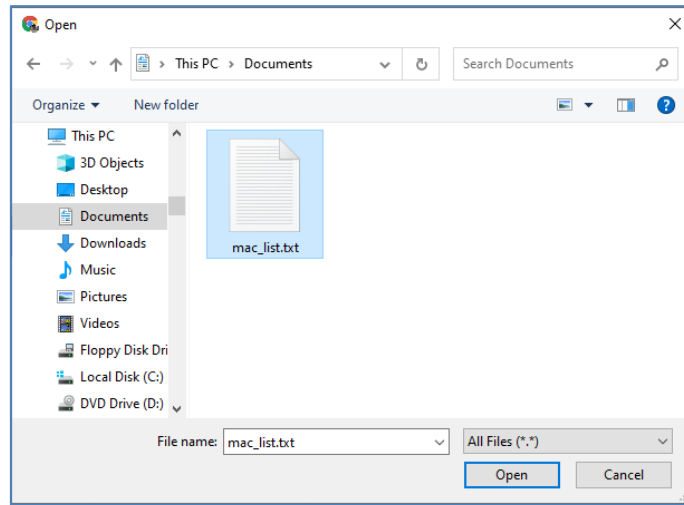


Figure 7

Step 8. Click the **Get Keys per uploaded file** button to generate the keys.

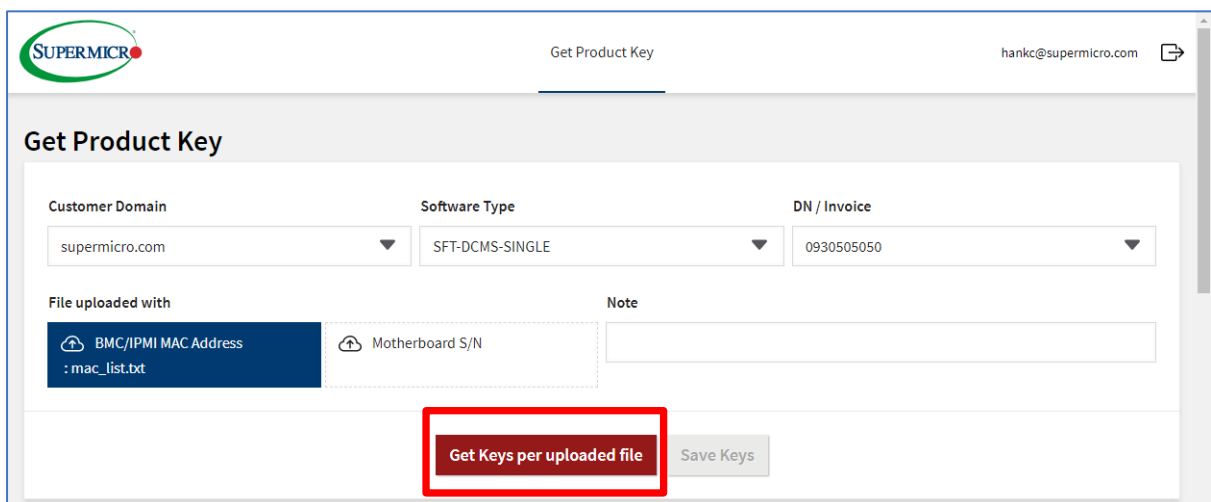


Figure 8

Step 9. After the keys are successfully generated, the message “**xx SFT-DCMS-SINGLE license keys generated successfully**” appears.

The key generation history is available in the log below. Note that the **#Avail.Keys:** item displays the remaining number of available keys.

Customer Domain: supermicro.com | Software Type: SFT-DCMS-SINGLE | DN / Invoice: 0930505050

File uploaded with: BMC/IPMI MAC Address, Motherboard S/N

Buttons: Get Keys per uploaded file, Save Keys

Message: 8 SFT-DCMS-SINGLE license keys generated successfully.

Timestamp	MB Serial#	MAC Address	Product Key	Note
2021-11-29 23:55:26		3CECEF87EF58	AAAYAAAAAAAAAAAAAAAAADrsKrJd8KIHDtLP6mZfQNfTiHO1uvPzYIC05skqOHyM0q6aMY269bUuI7lvo/2yeEMqHNhoNndV2DKrAauMtrR6PvbMEzGkXc2CLjLqS7W7q/Wzya1CFxvTIH7v4vDel6N1LvLkPx7nDehiNkNF/3r5hxCSelVku+dR05nE29uMaS4MSKaVlWlIFihUB/uAsTg0pbAv3B1v3cfNPQu3rBFiHw42LD7+dEztvV1Zn7z2VivTjh92ipm13tkWOBP1QHX45i8Q5q09SB8AkeBg/1nmumMJhuZtEc/iCCy2vUphrpJBo1mnmv2SgkM1B4QwvcPg==	
2021-11-29 23:55:26		3CECEF87EDF3	AAAYAAAAAAAAAAAAAAAAAMua7bLKTNIjStHoQhTRn/Dawtqhg111aidgpHh9i6ObV/mkrK/0toF2TQKdNfxvtTDbUFtqTvxiK16SFwGZZZouIXyc+9CD6DinKDRsYiGD9qbrAfADSFk9aSP83uEARsWtpXk0QwnDzA9xQNEIn4VyCSak5J/h5eQlKnyOkZjax1V2Jk00TkEg65iNablsY9D7/3eL4wwCHCDvo	

Figure 9

Step 10. You will receive a text file containing the keys by email or you can download the same text file by clicking the **Save Keys** button (see Figure 9).

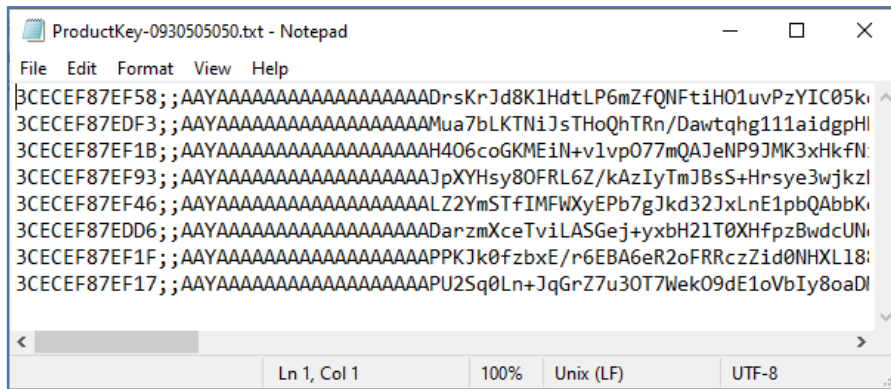


Figure 10

## 2.2 Obtaining Keys through SOAP Web Service

Supermicro offers SOAP Web Service as another approach for users to obtain software license keys, and they can integrate the APIs into their scripting processes.

The Product Key API can be accessed via SOAP Web Service at

[https://mbsa.supermicro.com/ProductKey\\_WSviaDN/ProductKeyAPI.asmx?WSDL](https://mbsa.supermicro.com/ProductKey_WSviaDN/ProductKeyAPI.asmx?WSDL)

The Product Key API provides ten functions and the parameters and returns are all string data types.

Parameter	Description
email	Your eStore email address
password	Your eStore password
DN	A ten-digit order number, e.g., 0821xxxxxx
SKU	Software license type (SFT-OOB-LIC, SFT-DCMS-SINGLE)
MAC	BMC MAC address
SER	Motherboard serial number
MACs	Multiple BMC MAC addresses, with each MAC address separated by a comma.
SERs	Multiple motherboard serial numbers, with each serial number separated by a comma.

### 2.2.1 Product Key API Functions

- Generating or retrieving a single software license key by the BMC MAC address:

Function: `GetProdKeyByMacAddr(email, password, DN, SKU, MAC)`

Return: `RESULT=String1`

**String1** indicates the software license key.

Example:

```
RESULT=D0A8-4A87-74D1-B477-46E5-790B
```

- Generating or retrieving a single software license key by the motherboard serial number:

Function: `GetProdKeyBySerialNum(email, password, DN, SKU, SER)`

Return: `RESULT=String1`

**String1** indicates the software license key.

Example:

```
RESULT=B750-4D2D-5B17-8EFE-1C99-2247
```

- Retrieving the total number of software license keys in the specific DN:

Function: *GetMaxNumProdKeys(email, password, DN, SKU)*

Return: *RESULT=String1*

**String1** indicates the total number of software license keys.

Example:

```
RESULT=1000
```

- Retrieving the available number of software license keys in the specific DN:

Function: *GetNumAvailProdKeys(email, password, DN, SKU)*

Return: *RESULT=String1*

**String1** indicates the number of available software license keys.

Example:

```
RESULT=980
```

- Retrieving the number of generated software license keys in the specific DN:

Function: *GetNumUsedProdKeys(email, password, DN, SKU)*

Return: *RESULT=String1*

**String1** indicates the number of generated software license keys.

Example:

```
RESULT=20
```

- Retrieving the BMC MAC address(es) related to the generated software license keys in a DN:

Function: *GetCsvListOfUsedMacAddr(email, password, DN, SKU)*

Return: *RESULT=String1,...*

**String1** indicates BMC MAC address(es), with each MAC address separated by a comma.

Example:

```
RESULT= AC1F6BA156FF,AC1F6B865D63
```

- Retrieving all DNs in the specific software type:

Function: *GetCsvListOfDNs(email,password,SKU)*

Return: *RESULT=String1:String2:String3,...*

**String1** indicates the DN associated with the software type.

**String2** indicates the total number of software license keys.

**String3** indicates the number of available software license keys.

Each string is separated by a colon in a piece of data; each piece of data is separated by a comma.

Example:

```
RESULT=0821234567:50:0,0821234568:100:77,0821234569:1000:980
```

- Retrieving the amount of available software license keys in all DNs in the specific software type:

Function: *GetCsvListOfDNsWithAvailKeys(email,password,SKU)*

Return: *RESULT=String1:String2:String3,...*

**String1** indicates the DN associated with the software type.

**String2** indicates the total number of software license keys.

**String3** indicates the number of available software license keys.

Each string is separated by a colon in a piece of data; each piece of data is separated by a comma.

Example:

```
RESULT=0821234568:100:77,0821234569:1000:980
```

- Generating or retrieving multiple software license keys in available DN by providing BMC MAC address(es):

Function: *GetCsvPKsAnyDnByMAC(email,password,SKU,MACs)*

Return: *RESULT=String1:String2:String3:String4,...*

**String1** indicates the DN associated with the software type.

**String2** indicates the BMC MAC address.

**String3** indicates the motherboard serial number.

**String4** indicates the software license key.

Each string is separated by a colon in a piece of data; with data separated by a comma.

Example:

```
RESULT=0821234569:002590FE63E8::D8CE-DC57-2E18-A02F-4479-1454,0821234569:AC1F6BB67871::A7C4-0C05-05E2-4622-D3BB-3422
```

- Generating or retrieving multiple software license keys in the available DN by providing motherboard serial number(s):

Function: *GetCsvPKsAnyDNBySN(email,password,SKU,SERs)*

Return: *RESULT=String1:String2:String3:String4,...*

**String1** indicates the DN associated with the software type.

**String2** indicates the BMC MAC address.

**String3** indicates the motherboard serial number.

**String4** indicates the software license key.

Each string is separated by a colon in a piece of data; with piece of data separated by a comma.

Example:

```
RESULT=0821234569:AC1F6B4AF818:NM17BS019248:7E4C-FA10-750C-36BB-543C-F6C2,0821234569:0025909FC8F4:VM2CS56087:B749-C567-1B31-6971-0F0B-7A2C
```

## 2.2.2 An Example

In the following code example, Python version 3 and the installed SUDS library are used. The `GetProdKeyByMacAddr` API function for retrieving the software license key is shown here.

```
#!/use/bin/python3
from suds.client import Client

WSDL="https://mbsa.supermicro.com/ProductKey_WSviaDN/ProductKeyAPI.asmx?WSDL"

client = Client(WSDL)

results =
client.service.GetProdKeyByMacAddr("user@supermicro.com", "xxxxxxx", "08212345
67", "SFT-00B-LIC", "ac:1f:6b:86:5d:63")

print(results)
```