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# Cubinote

## Integration API Guide Draft v0.4

developer.cubinote.com  
api.cubinote.com

### (一)API Base Info

Cubinote Developer console: [developer.cubinote.com](http://developer.cubinote.com), please register an account, and apply for your access key, then add your apps in the console.

Cubinote API end point: [api.cubinote.com](http://api.cubinote.com).

### (二)API Protocol

#### 1. Request to bind device

Description: The application requests to bind with a Cubinote device.

#### Request URL

<http://api.cubinote.com/home/requestbind>

#### Request parameters

HTTP protocol, supporting GET/POST method.

Parameters:

Parameter's Name	Type	Example	Required?	Description
appID	String	12345	Yes	The Id of your App
ak	String	698d51a19d8a121ce581499d7b701668	Yes	Your access key (AK).
timestamp	String	2014-11-14 14:22:39	Yes	Time of client. e.g. 2014-11-14 14:22:39
deviceID	String	fb93bfff504c020a	Yes	Device Id ( <b>The device ID which is printed by double clicking Cubinote</b> )
useridentifying	String	123333	Yes	The user defined unique string.

## Parameters of response

The response is returned in JSON format.

Parameter's Name	Type	Example	Description
showapi_res_code	int	1	Return value: 0-failed, 1-success, 2-already bound.
showapi_res_error	String	Incorrec AK	Error information of AK
showapi_bindid	int	11111	The bind Id (if the app is successfully bound with the device)
showapi_devicetype	int	301	Device type: 301-Cubinote pro; 601-Cubinote home

## Example of request

<http://api.cubinote.com/home/setuserbind?appID=12345&ak=c7548afbab99479e9f9a59aa1d65d5c6&timestamp=2014-11-14%2014:22:39&deviceID=138ca2ba62125fb6&useridentifying=12121233>

## Example of response

```
{"showapi_res_code":1,"showapi_res_error":"ok","showapi_devicetype":301,"showapi_bindid":807712}
```

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## 2. Get bind status

Description: To get the status of bind operation.

### Request URL

<http://api.cubinote.com/home/getbindrequeststatus>

### Request parameters

HTTP protocol, supporting GET/POST method.

Parameters:

Parameter's Name	Type	Example	Required?	Description
appID	String	12345	Yes	The Id of your App
ak	String	698d51a19d8a121ce581499d7b701668	Yes	Your access key.
timestamp	String	2014-11-14 14:22:39	Yes	Time of client. e.g. 2014-11-14 14:22:39
deviceID	String	fb93bfff504c020a	Yes	Device Id
bindID	int	807712	Yes	Id of the bind of App with a device.

### Parameters of response

The response is returned in JSON format.

Parameter's Name	Type	Example	Description
showapi_res_code	int	1	Return value: 0-not verified, 1-verified, other-failed.
showapi_res_error	String	Incorrect AK	Error information of AK
showapi_devicetype	int	301	Device type: 301-Cubinote pro; 601-Cubinote home

### Example of request

```
http://api.cubinote.com/home/getbindrequeststatus?appID=12345&ak=c7548afbab99479e9f9a59aa1d65d5c6&timestamp=2014-11-14%2014:22:39&deviceID=138ca2ba62125fb6&bindID=807712
```

### Example of response

```
{"showapi_res_code":1,"showapi_res_error":"ok","showapi_devicetype":601}
```

## 3. Verify the bind request

Description: Verify the bind request.

### Request URL

```
http://api.cubinote.com/home/verifybind
```

### Request parameters

HTTP protocol, supporting GET/POST method.

Parameters:

Parameter's Name	Type	Example	Required?	Description
appID	String	12345	Yes	The Id of your App
ak	String	698d51a19d8a121ce581499d7b701668	Yes	Your access key.
timestamp	String	2014-11-14 14:22:39	Yes	Time of client. e.g. 2014-11-14 14:22:39
deviceID	String	fb93bfff504c020a	Yes	Device Id
bindID	int	807712	Yes	Id of the bind of App with a device.
verifyCode	String	12345678	Yes	The verification code that printed by the device.

enablePush	boolean	False	No	Accept group send. Default: false
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## Parameters of response

The response is returned in JSON format.

Parameter's Name	Type	Example	Description
showapi_res_code	int	1	Return value: 0-already verified, 1-verified successfully, other-failed.
showapi_res_error	String	Incorrect AK	Error information of AK

## Example of request

```
http://api.cubinote.com/home/verifybind?appID=12345&ak=c7548afbab99479e9f9a59aa1d65d5c6&timestamp=2014-11-14%2014:22:39&deviceID=138ca2ba62125fb6&bindID=807712&verifyCode=NNMPDD&enablePush=0
```

## Example of response

```
{"showapi_res_code":1,"showapi_res_error":"ok"}
```

## 4. Get the bound devices list

**Description:** Get the verified bound devices list.

### Request URL

```
http://api.cubinote.com/home/getbindlist
```

### Request parameters

HTTP protocol, supporting GET/POST method.

Parameters:

Parameter's Name	Type	Example	Required?	Description
appID	String	12345	Yes	The Id of your App
ak	String	698d51a19d8a121ce581499d7b701668	Yes	Your access key.
timestamp	String	2014-11-14 14:22:39	Yes	Time of client. e.g. 2014-11-14 14:22:39

## Parameters of response

The response is returned in JSON format.

Parameter's Name	Type	Example	Description
showapi_res_code	int	1	Return value: 1-success, other-failed.
showapi_res_error	String	Incorrect AK	Error information of AK
showapi_bindlist	Array	<pre>ds:[{"bindID":1,"deviceId":"fb93bfff504c020a", "useridentifying": "123234","deviceType":301,"enablePush":false}, {"bindID":2,"deviceId":"de34e567ab5d3f3e", "useridentifying": "123323" ,"deviceType":601,"enablePush":true}]</pre>	The devices list, not include the devices with enablePush is false.

## Example of request

`http://api.cubinote.com/home/getbindlist?appID=12345&ak=c7548afbab99479e9f9a59aa1d65d5c6&timestamp=2014-11-14%2014:22:39`

## Example of response

```
{"showapi_res_code":1,"showapi_res_error":"ok","showapi_bindlist":{"ds":[{"bindID":"807712","deviceID":"138ca2ba62125fb6","useridentifying":"1","deviceType":"301","enablePush":true}]}}
```

## 5. Get the bound devices list by user identifying

**Description:** Get the verified bound devices list by user identifying.

### Request URL

`http://api.cubinote.com/home/getbindlistbyuseridentifying`

### Request parameters

HTTP protocol, supporting GET/POST method.

Parameters:

Parameter's Name	Type	Example	Required?	Description
appID	String	12345	Yes	The Id of your App
ak	String	698d51a19d8a121ce581499d7b701668	Yes	Your access key.
timestamp	String	2014-11-14 14:22:39	Yes	Time of client. e.g. 2014-11-14 14:22:39
useridentifying	String	123333	No	The user defined unique string.

### Parameters of response

The response is returned in JSON format.

Parameter's Name	Type	Example	Description
showapi_res_code	int	1	Return value: 1-success, other-failed.
showapi_res_error	String	Incorrect AK	Error information of AK
showapi_bindlist	Array	ds:[{"bindID":1,"deviceID":"fb93bfff504c020a", "useridentifying": "123234","deviceType":301,"enablePush":false}, {"bindID":2,"deviceID":"de34e567ab5d3f3e", "useridentifying": "123323" ,"deviceType":601,"enablePush":true}]	The devices list, not include the devices with enablePush is false.

### Example of request

<http://api.cubinote.com/home/getbindlistbyuseridentifying?appID=12345&ak=c7548afbab99479e9f9a59aa1d65d5c6&timestamp=2014-11-14%2014:22:39&useridentifying=1>

### Example of response

```
{"showapi_res_code":1,"showapi_res_error":"ok","showapi_bindlist":{"ds":[{"bindID":807711,"deviceID":"fb93bfff504c020a","useridentifying":"1","deviceType":601,"enablePush":false}, {"bindID":807712,"deviceID":"de34e567ab5d3f3e","useridentifying":"1","deviceType":301,"enablePush":true}]}}
```

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## 6. Unbind device

Description: Unbind the device that already bound.

### Request URL

<http://api.cubinote.com/home/unbinddevice>

### Request parameters

HTTP protocol, supporting GET/POST method.

Parameters:

Parameter's Name	Type	Example	Required?	Description
appID	String	12345	Yes	The Id of your App
ak	String	698d51a19d8a121ce581499d7b701668	Yes	Your access key.
timestamp	String	2014-11-14 14:22:39	Yes	Time of client. e.g. 2014-11-14 14:22:39
deviceID	String	fb93bfff504c020a	Yes	Device Id
bindID	int	807712	Yes	Id of the bind of App with a device.

### Parameters of response

The response is returned in JSON format.

Parameter's Name	Type	Example	Description
showapi_res_code	int	1	Return value: 0-not verified, 1-verified, other-failed.
showapi_res_error	String	Incorrect AK	Error information of AK

### Example of request

http://api.cubinote.com/home/unbinddevice?appID=12345&ak=c7548afbab99479e9f9a59aa1d65d5c6&timestamp=2014-11-14%2014:22:39&deviceID=138ca2ba62125fb6&bindID=807712

### Example of response

```
{"showapi_res_code":1,"showapi_res_error":"ok"}
```

## 7. Get device status

Description: To get the status of a bound device.

### Request URL

http://api.cubinote.com/home/getdeviceinfo

### Request parameters

HTTP protocol, supporting GET/POST method.

Parameters:

Parameter's Name	Type	Example	Required?	Description
appID	String	12345	Yes	The Id of your App
ak	String	698d51a19d8a121ce581499d7b701668	Yes	Your access key.
timestamp	String	2014-11-14 14:22:39	Yes	Time of client. e.g. 2014-11-14 14:22:39
deviceID	String	fb93bfff504c020a	Yes	Device Id
bindID	int	807712	Yes	Id of the bind of App with a device.

### Parameters of response

The response is returned in JSON format.

Parameter's Name	Type	Example	Description
showapi_res_code	int	1	Return value: 0-not verified, 1-verified, other-failed.
showapi_res_error	String	Incorrect AK	Error information of AK
showapi_devicetype	int	301	Device type: 301-Cubinode pro; 601-Cubinode home
showapi_state	Int	3	The state of device: 0-out of paper and overtemperature; 1-overtemperature; 2-out of paper; 3-normal.
showapi_isOnline	int	1	Is online: 0-offline; 1-online.

### Example of request

```
http://api.cubinode.com/home/getdeviceinfo?appID=12345&ak=c7548afbab99479e9f9a59aa1d65d5c6&timestamp=2014-11-14%2014:22:39&deviceID=138ca2ba62125fb6&bindID=807712
```

### Example of response

```
{"showapi_res_code":1,"showapi_res_error":"ok","showapi_devicetype":601,"showapi_state":1,"showapi_isOnline":1 }
```

## 8. Print paper slip

Description: Print paper slip with a bound device.

### Request URL

```
http://api.cubinode.com/home/printpaper
```

### Request parameters

HTTP protocol, supporting GET/POST methods.

Large printcontent(size>2048 Bytes) must be POST data.

Parameters:

Parameter's Name	Type	Example	Required?	Description
appId	String	12345	Yes	The Id of your App
ak	String	698d51a19 d8a121ce58 1499d7b70 1668	Yes	Your access key
timestamp	String	2014-11-14 14:22:39	Yes	Time of client. e.g. 2014-11-14 14:22:39
deviceId	String	fb93bfff504 c020a	Yes	Device Id
bindID	int	807712	Yes	Id of the bind of App with a device.
printcontent	String	T:d2VsY29tZ SB0byB5b3 U= P:xxx	Yes	Content of text (Chinese must be in GBK and encoded in Base64) and picture (Monochrome/1bit Bitmap) encoded in Base64. T:text P:picture

The response is returned in JSON format.

Parameter's Name	Type	Example	Description
showapi_res_code	int	1	Return value: 1-success, other-failed.
showapi_res_error	String	Incorrect AK	Error information of AK
result	int	1	Return value, 1-printed, 2-sent to print queue, other-not printed.
printcontentID	String	1234566	The unique ID for printing content.

### Example of request

Note: For large printcontent(size>2048 Bytes), it must be encapsulated as POST data.

<http://api.cubinote.com/home/printpaper?appId=12345&ak=657b835b52ce4c2196c0e334f68b7489&timestamp=2017-11-20%2014:43:56&deviceId=fb93bfff504c020a&bindID=807712&printcontent=T:dGVzdA==>

### Example of response

```
{"showapi_res_code":1,"showapi_res_error":"ok","result":2,"printcontentid":52476}
```

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## 9. Get status of printing paper slip

Description: Get the status of print job.

### Request URL

<http://api.cubinote.com/home/getprintstatus>

### Request parameters

HTTP protocol, supporting GET/POST methods.

Parameter's Name	Type	Example	Required?	Description
appID	String	12345	Yes	The Id of your App
ak	String	698d51a19d 8a121ce581 499d7b7016 68	Yes	Your access key
timestamp	String	2014-11-14 14:22:39	Yes	Time of client. e.g. 2014-11-14 14:22:39
printcontentid	String	1234566	Yes	The unique ID for printing content.

### Parameter of response

The response is returned in JSON format.

Parameter's Name	Type	Example	Description
showapi_res_code	int	1	Return value: 1-success, other-failed.
showapi_res_error	String	Incorrect AK	Error information of AK
printflag	int	1	Flag of return: 1-printed, other-not printed.
printcontentID	String	1234566	The unique ID for printing content.

### Example of request

<http://api.cubinote.com/home/getprintstat?appID=12345&ak=657b835b52ce4c219>

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6c0e334f68b7489&timestamp=2014-11-14%2014:22:39&printcontentid=52476

### Example of response

```
{"showapi_res_code":1,"showapi_res_error":"ok","printflag":1,"printcontentid":52476}
```

## 10. Get monochrome Bitmap

Description: Convert base64 encoded picture to monochrome bitmap.

### Request URL

<http://api.cubinote.com/home/getSignalBase64Pic>

### Request parameters

HTTP protocol, supporting GET/POST methods.

Large `imgBase64String`(size>2048 Bytes) must be POST data.

Parameters:

Parameter's Name	Type	Example	Required?	Description
appID	String	12345	Yes	The Id of your App
ak	String	698d51a1 9d8a121c e581499d 7b701668	Yes	Your access key
imgBase64String	String	Base64 of Jpg or png	Yes	Base64 of Jpg or Png.

### Parameters of response

The response is returned in JSON format.

Parameter's	Type	Example	Description
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Name			
showapi_res_code	int	1	Return value: 1-success, other-failed.
showapi_res_error	String	Incorrect AK	Error information of AK
result	String	Base64 value	Return the base64 value of the processed picture, can be printed directly.

### Example of request

<http://api.cubinote.com/home/getSignalBase64Pic?appID=12345&ak=657b835b52ce4c2196c0e334f68b7489&imgBase64String=xxx>

### Example of response

```
{"showapi_res_code":1,"showapi_res_error":"ok","result":"xxx"}
```