

1. /SDK/activateStatus

/SDK/activateStatus		General Resource v2.0
GET		
Description	It is used to get device activate status	
Query	None	
Inbound Data	None	
Success Return	<ActivateStatus>	
Notes:		

ActivateStatus XML Block

```
<ActivateStatus version="2.0" xmlns="http://www.hikvision.com/ver20/XMLSchema">
  <Activated><!--req,xs:boolean--></Activated> //true—active,false-inactive
</ActivateStatus>
```

2.How to activate Hikvision devices

Steps

- 1) The 3rd party Generates public and private key(string)
- 2) Public key(256 string) , which is sent to device after encryption with base64
- 3) Device decrypt public key with base64, and generate random string, then after encrypt the random string by calling RSA interfaces, and encrypt with base64. Finally devices send encrypted data to 3rd party.
- 4) The 3rd party decrypt data from devices with base64, and then decrypt with private key. Use the obtained random string to encrypt the password with AES128 and base64. Finally 3rd party sends the encrypted password to devives.
- 5) Devices decrypt with base64 first, and then use random string to decrypt again with AES128, meanwhile, devices verify password again.

/ISAPI/Security/challenge

/ISAPI/Security/challenge		General Resource v2.0
POST		
Description	It is used to get challenge	
Query	None	
Inbound Data	<PublicKey>	
Success Return	<Challenge>	

Notes:

PublicKey XML Block

```
<PublicKey version="2.0" xmlns="http://www.isapi.org/ver20/XMLSchema">
  <key><!-- req, xs:string --></key>
</PublicKey>
```

Challenge XML Block

```
<Challenge version="2.0" xmlns="http://www.isapi.org/ver20/XMLSchema">
  <key><!-- req, xs:string --></key>
</Challenge>
```

/ISAPI/System/activate

/ISAPI/System/activate		General Resource	v2.0
PUT			
Description	It is used to activate device		
Query	None		
Inbound Data	<ActivateInfo>		
Success Return	<ResponseStatus>		
Notes:			

ActivateInfo XML Block

```
<ActivateInfo version="2.0" xmlns="http://www.isapi.org/ver20/XMLSchema">
  <password><!-- req, xs:string --></password>
</ActivateInfo>
```

Example

POST /ISAPI/Security/challenge HTTP/1.1

Host: 192.168.1.64

Connection: keep-alive

Content-Length: 416

Cache-Control: max-age=0

Accept: */*

Cache-Control: max-age=0
Accept: /*/*
Origin: http://192.168.1.64
X-Requested-With: XMLHttpRequest
If-Modified-Since: 0
User-Agent: Mozilla/5.0 (Windows NT 6.1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/43.0.2357.130 Safari/537.36
Content-Type: application/x-www-form-urlencoded
Referer: http://192.168.1.64/doc/page/login.asp?_1436173010140
Accept-Encoding: gzip, deflate, sdch
Accept-Language: zh-CN,zh;q=0.8
Cookie: updateTips=true; language=en

```
<?xml version='1.0' encoding='utf-8'?><ActivateInfo><password>NmJmNzBhZTk3YWJmMlWYTBmNGQxNmYxM2ZjODc4NGNmMzE0ODViYTUxZWZkOGUwMWM5MmRhODdhYmNjNQ==</password></ActivateInfo>HTTP/1.1 200 OK
```

Date: Mon, 06 Jul 2015 16:49:59 GMT
Server: App-webs/
Connection: close
Content-Length: 278
Content-Type: application/xml

```
<?xml version="1.0" encoding="UTF-8"?>  
<ResponseStatus version="2.0" xmlns="http://www.hikvision.com/ver20/XMLSchema">  
<requestURL>/ISAPI/System/activate</requestURL>  
<statusCode>1</statusCode>  
<statusString>OK</statusString>  
<subStatusCode>ok</subStatusCode>  
</ResponseStatus>
```