

How to get plate information through API

1. Enable ANPR Function

Enable IPC's ANPR function and configure as below:

The first screenshot shows the 'Detection Config' tab under 'Event > ANPR'. It has several configuration options: 'Enable' (checked), 'Save Panoramic Picture To SD Card' (checked), 'Save Target Cutout To SD Card' (checked), 'License Plate Detection Area' set to 'Asia' and '中国大陆', 'Capture Plate Absence Vehicle' (unchecked), 'Alarm Holding Time' set to '20 Seconds', and three trigger options ('Trigger SD Snap', 'Trigger SD Recording', 'Trigger Email') all unchecked. A 'Save' button is at the bottom.

The second screenshot shows the 'Comparison and Linkage' tab under 'Event > ANPR'. It includes settings for 'Allow fault character(s) of the plate number' (set to 1), 'Deduplication Period' (checked and set to 5 Seconds), 'Alarm Trigger Mode' (set to License Plate), and a 'Allow list' section containing 'Alarm Out' (unchecked). A 'Save' button is at the bottom.

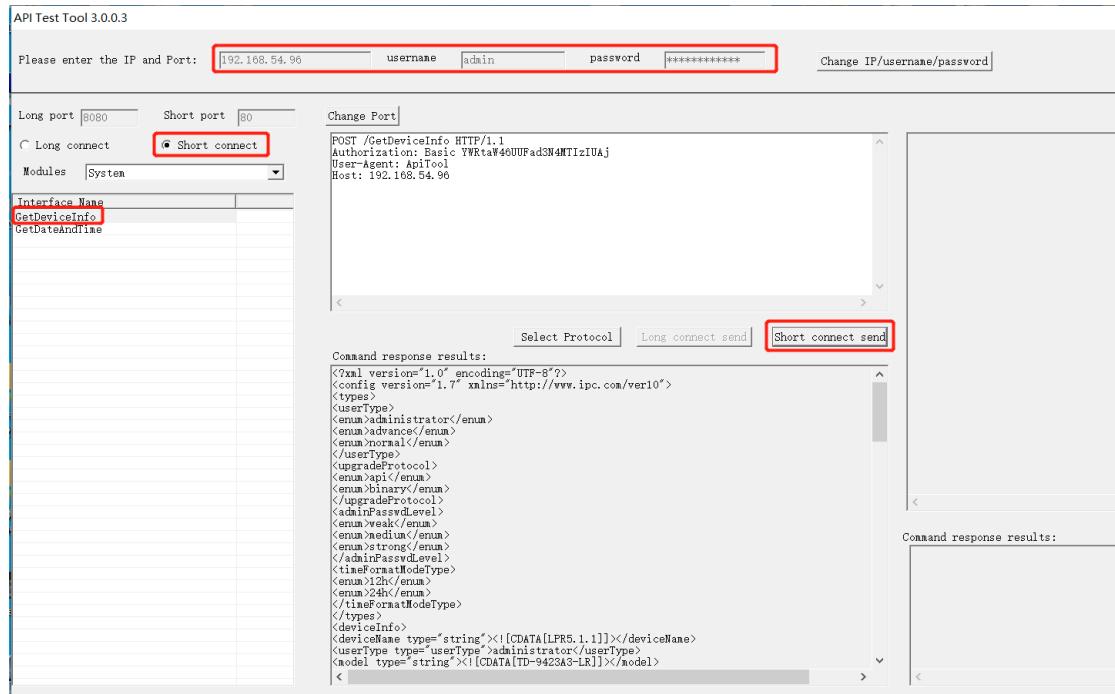
2. Check the Long Connect Port Configuration

Check the long connect port and make sure it's enabled.

This screenshot shows the 'Advanced' tab under 'Network'. It lists several port configurations: HTTP Port (80), HTTPS Port (443), Data Port (9008), RTSP Port (554), Persistent connection Port (8080 with 'Enable' checked), and WebSocket Port (7681). The 'Persistent connection Port' row is highlighted with a red border.

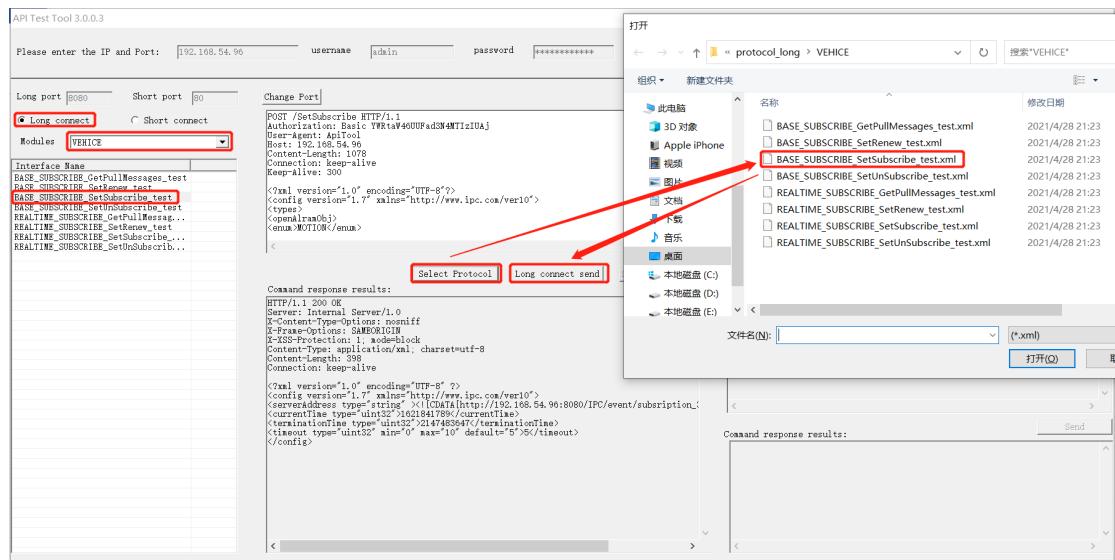
3. Test API connection

Send short connect command, for example getdeviceinfo, to test API connection.



4. Set Subscribe through Long Connect

Set subscribe through long connect and once IPC recognizes license plate, API will get the subscribe information.



5. Check the API Log

When API gets the subscribe information, it will be recorded in the API log.

Command response results:

```
POST /SendAlarmStatus HTTP/1.1
Host: 192.168.54.96
Content-Length:514
Content-Type:application/xml; charset=utf-8
Connection: keep-alive

<?xml version="1.0" encoding="UTF-8" ?>
<config version="1.7" xmlns="http://www.ipc.com/ver10">
<alarmStatusInfo>
<vehicleAlarm type="boolean" id="1">true</vehicleAlarm>
</alarmStatusInfo>
<dateTime><![CDATA[2021-05-24 15:50:14]]></dateTime>
<deviceInfo>
<deviceName><![CDATA[LPR5.1.1]]></deviceName>
<deviceNo.><![CDATA[1]]></deviceNo.>
<sn><![CDATA[I75B8055949N]]></sn>
<ipAddress><![CDATA[192.168.226.201]]></ipAddress>
<macAddress><![CDATA[00:18:ae:b5:75:b8]]></macAddress>
</deviceInfo>
</config>
```

6. Restore the Encoded Data to Picture

The picture file was base64 encoded, and the encoded data is included in []:

```
<targetBase64Data type="string"><![CDATA[0j/4AAQSkZJRgABAQAAAQABAAAD/2wDFBALDA4MChAODQ4SERATGCgaGB
ODdASFxOQERXRTc4UG1RV19iZ2hnPk1xeXBkeFxZ2MBERISGBUYLxoaL2NCOEjY2NjY2NjY2Nj
Y2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2Nj
Y2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2NjY2Nj
AwEiAAIRAQMRAv/EAalAAAFAQEBAQEBAAAAAAAAABAgMEBQYHCAkKcxAAAgEDAwiEAwUFBAQA
AAF9AQIDAQRBRlhMUEGE1fhByJxFDKBkaEI0KwRVSoFakM2JyggKKFhCYGRoJicoKSa0NTY3
ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlc3R1dnd4eXqDhIWGh4ijpKTJWWl5iZmqKjpKWm
p6ipqrKztLW2t7i5usLDxMXGx8jytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6AQADAQEB
AQEBAQEBAAAAAAAAQIDBAUGBwgJCsRAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXET
IjkBCBRckaxGxwQkjM1LwFWjy0QoWDThjfEXGBkaicoKSa1Njc4OTpDREVGROhjsINUVVZXWFa
Y2RIZmdoaWpzdHV2d3h5eoKDhlWGH4JipKTJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXG
...
1A/9+o//AlmsypP4PxoAri1iVcPtK+9aVprc+nWy20GovFcMdqLGhxkk91J6ms+f7tZ8/wDrR9KY
G9delrm7h8mW6mnjUIGRFBwQR0XPUCqsOtX1pNI+nlbXzQAA4VFbGcHkdeTWZH0FTCgZqT6lru
Wj2zzPPC+NyjFBwQeuB3FVoNldTm5TYP7o6mtfw9/qfzqxe/wCsFSxmfEiKvlwx7F+IKYmVumaf
F981NJ1FF9RtFYxyMolXrSGJgAdvHera/wCrWmt9w/WgRUGBQOM7cjNhrTh0FMRLpyk67YHsJMmu
ob7xrmtO/wCQxZ/79dK3U0AJRRRTAKKSmAUUUdqdACijtSAKSI7UhpiCikpaBhsUtJSEFJRRQMk
KU0IMBKKAACiikoAKKBRQAffffIQIFFMYUILSuhBRRQaYxKKKACiiikIStiiigApKKKBhRQaKY
BRRR2pCEooooGJsP98Uhpu++KAOK1051+6+o/kKq9qs65/yHrr/eH8hVY0AMPWuos+PAGpe8gH6r
XLnrXT2v/lgaj/10H81pAf/Z]></targetBase64Data>
```

We can test base64 encoding on website, and the encoded data starts with 'data:image/png;base64,'

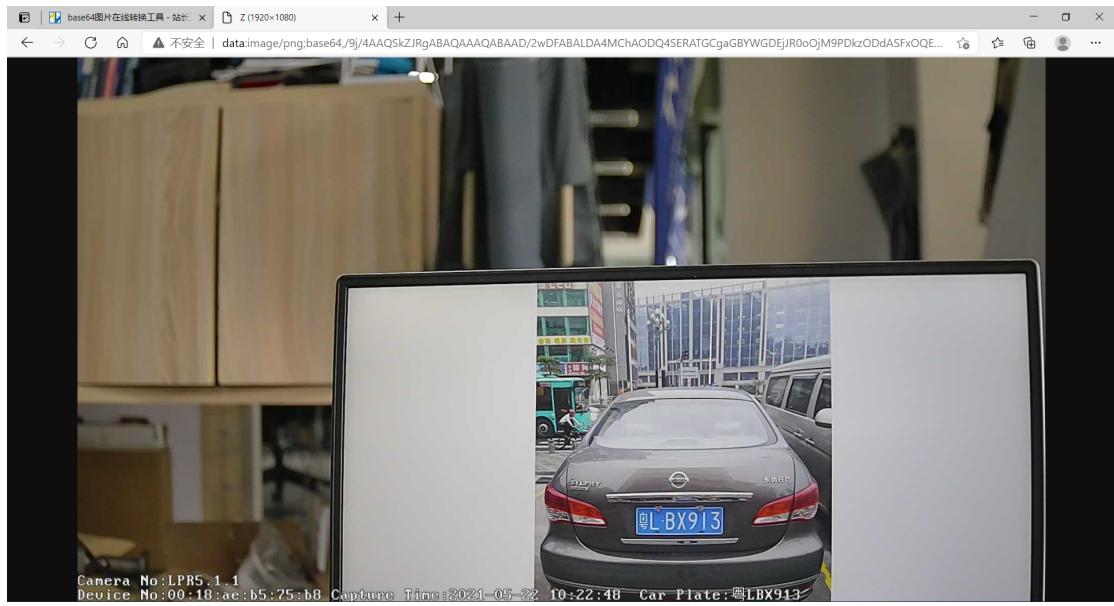


data:image/png;base64,JVBORw0KGgoAAAANSUhEUgAAAZAAAAGQCAYAAACAvzbMAAAAAXNSR0lAr54c4QAAAARnQU1BAACJxw8YQUAAAACjEhZcwAAEnQAAJB0Ad5mH3gAAP+ISURBVhne7P1nvC3hd4In3giQFESi8JNw0AGEUqWLHtscz9s7mzfOeObDJHusRBfgcISRc45MophECQSCQaQopfEyZJk1nB9kiygsWEcHMO9T7/1f3svU6dz2vcmwCSwofn11WrQfe3b3+e1VW956Yumt/aWn67gNj1WqTNXnvofsG9U+17Wm71C9M2Zq58+BYTR2mJtUnlj1916GB6npDexmrn7Vga/p29SO1yh89TN81V04720cp92wBjsf7zc1rCxQaznVuQd451ua1x0tq1z1WqXu5jyd06Rsni18Uxdfr+OXQ0nu6frshv/y/+z4+bkf+mbLm2X3dnW8D+q4v2x3H96P865Dn7ZTx+1R7nPqVt0Dt+kz3KH2UvuPFSw0UbppTo/pNnO3K6+U5sIOgfL6Z/zczuOh3Nye5deRn1tEtBkjlaocGhrapW3r3Kc7vdizW3UctOmUekl92mPm7RfIXS0zfqWKSZm/YPbnbsW7UP2V2H8hxa/0pdZs5nltkOUHpfUovU3rJdkNOpYbpOvU9qld3y1eaXpt+uYrtR+r1a/ooprOk2/Td+n8suUnnn7PsMVaiMtUxplaqisjVvU9n1+m60XS17kuUv0znR

*请上传小于300KB的.jpg/.jpeg/.gif/.bmp/.png/.ico格式图片，不建议将大图转换。

123.png 图片转成Base64 Base64还原图片 清空结果

Copy the 'data:image/png;base64,' and encoded data captured from API log, and paste to browser address bar, we can restore the encoded data to picture.



We can also get the small size picture which contains license plate only.

