

HCP Platform OpenAPI Deployment & Online Debug

1、Installation

1.1 Get OpenAPI installation package

Because the HCP platform installation package is not the same as the OpenAPI installation package, you need to get the OpenAPI installation package. First, the customer should register a TPP account, <https://tpp.hikvision.com/>. After approval, please download the OpenAPI installation package consistent with the HCP platform version. The download link is <https://tpp.hikvision.com/tpp/Resource>

The screenshot shows a search bar at the top with the placeholder "Please input keywords for searching ...". Below it is a list of four API packages:

- HikCentral Professional OpenAPI 2.3 (API, 2022/07/21, Download)
- HikCentralPro OpenAPI 2.2.1 (API, 2022/05/07, Download)
- HikCentralPro OpenAPI 2.2.0 (API, 2022/01/12, Download)
- HikCentralPro OpenAPI 2.1.0 (API, 2021/11/24, Download)

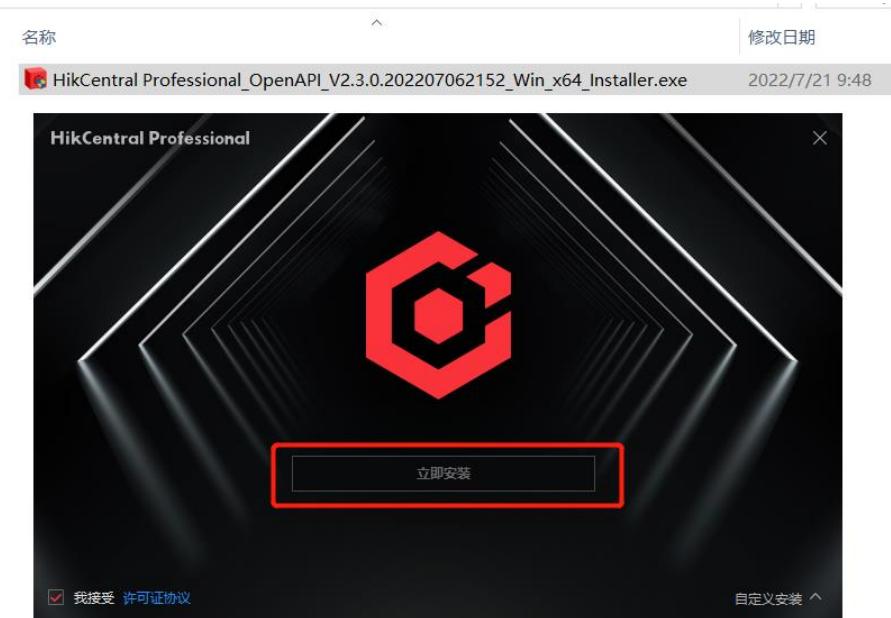
On the right side, there is a sidebar with the following categories:

- PUBLIC
- PRIVATE
- HEOP GROUP
- HIK-PROCONNECT
- ISAPI GROUP
- HIKCENTRAL SOFTWARE GROUP** (highlighted with a red border)
- ARC INTEGRATION GROUP

At the bottom of the sidebar, there is an "Online Agreement" section with a "Sign Materials License Agreement" button.

1.2 Install OpenAPI

After getting the installation package, install it on a Windows server or computer with one click. OpenAPI and HCP platform can be installed on the same server or on different servers. We recommend installing on the same server.



2、Online Debug

2.1 License

Please confirm HCP platform contains Third-Party Integration license. If not, please apply for a license first.

License Details

License Details License List Latest Expiry Date : 2023-01-17(T...)

Authorization Details	Details
Pathway Analysis	Disabled
Third-Party Integration	Enabled
Archive Search	Enabled

2.2 Enable Open API

System Configuration - Third-Party Integration, enable Open API, and save.

Note: You can edit the IP and port only when you log in to the server where HCP is installed.

HikCentral Professional Web Client

No permission to edit. For system security, you can only edit it via the Web Client running on the System Management Server.

Open API

Open API

*IP Address: 127.0.0.1

*Management Port: 8208

Partner User:

Search

All Users admin

Test

Save

Normal

User Preference

Holiday Settings

Printer Settings

Network

Storage

Email

Security

Third-Party Integration

Integrate via Optimus

Open API

Data Interchange

Advanced

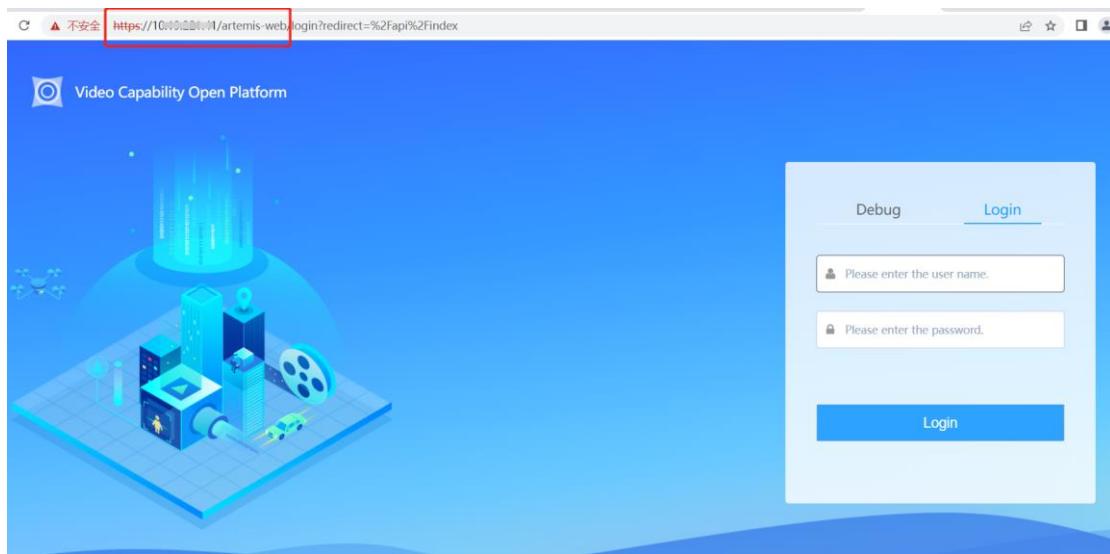
Company Information

2.3. Login API web page

<https://ip/artemis-web/> ,the ip is the address where OpenAPI is installed.

If you login to this page locally on the HCP server, you can use <https://127.0.0.1/artemis-web/> .

If you login to this page on another computer, please use the correct IP address.



You can see that there are 2 ways: (1) Debug (2) Login

Both methods can debug APIs, but you need to create partner first, then get APPkey and APPsecret.

Therefore, please log in first. The user name is **admin**, and the default password is **admin@123**, you need to change password after first login.

2.4 Create Partner

Create a Partner

Partner Name	Description	Created On	Operation
test	test	2022-10-25 15:06:04	Authorize Call Limit Delete

Set Partner Name and Description

Parameter Name	Parameter Value	Description	Operati on
userid	admin	平台用户名	
domainid	0	网域ID	

Configure Authorization

The screenshot shows the Management Center interface under the API Gateway section. On the left, there's a sidebar with options like Open API, API List, Group, Provider, Partner, Document Center, API Calling Statistics, and Uploaded File. The main area displays a table for 'Partner'. The table has columns for Partner Name, Description, Created On, and Operation. There are two entries: 'testAAA' with 'testAAA' in the description and 'test' with 'test' in the description. In the 'Operation' column for 'testAAA', there is a red box around the 'Authorize' button. Below the table, there are buttons for 'Reset' and 'Filter', and a message box saying 'Total 2 / 20 /page'.

Save

This screenshot shows the 'Authorize' dialog for partner 'testAAA'. The title bar says 'Authorized Partners: testAAA' with 'OK' and 'Cancel' buttons. The dialog has two main sections: 'Group-API (0)' on the left and 'Selected (152)' on the right. A red arrow points from the 'Selected (152)' list to the 'OK' button at the top right of the dialog.

2.5 Get APPkey and APPsecret

This screenshot shows the 'Partner Details' page for partner 'testAAA'. The sidebar includes options like Open API, API List, Group, Provider, Partner, Document Center, API Calling Statistics, and Uploaded File. The main content area shows basic information (Partner: testAAA, Partner ID: 15, Description: testAAA) and partner parameters (userId: admin, domainId: 0). Under 'Partner Key', it shows 'Partner Key' (20911192AK) and 'Partner Secret' (SK a*****r). A red box highlights the 'AK' field. Below that, there's a 'Show' link and an 'Operation' section with a 'Reset Partner Secret' button.

2.6 Online Debug

After the partner is created, you can start online debugging.

Find the API you want to call from the API list, and then click "Online Debugging", such as Get person information.

The screenshot shows the Management Center's API Gateway section. On the left, there's a sidebar with options like 'Open API', 'API List', 'Group', 'Provider', 'Partner', 'Document Center', 'API Calling Statistics', and 'Federated APIs'. The main area has a search bar at the top with fields for 'API Name', 'Group' (set to 'Person Information'), 'Provider' (set to 'All'), and a 'Filter' button. Below the search bar is a table with columns: 'API Name', 'Group Name', 'Service Provider', 'Description', 'Online/Offline', 'Show/Hide', and 'Operation'. There are three entries in the table:

- Get person information**: Grouped under 'Person Information', Service Provider is 'OpenAPI Translation Service'. Description: 'Get the information list of all access control points, and all information is returned by page.' Status: Online, Show: On, Operation: Online Debug, Delete.
- Get a person information by person ID**: Grouped under 'Person Information', Service Provider is 'OpenAPI Translation Service'. Description: 'Get the information of a specified person by person ID.' Status: Online, Show: On, Operation: Online Debug, Delete.
- Search for person**: Grouped under 'Person Information', Service Provider is 'OpenAPI Translation Service'. Description: 'Set search condition (i.e., person name) to search the specified person, and fuzzy search is supported; if the search condition is not configured, the information of all persons will be returned by page.' Status: Online, Show: On, Operation: Online Debug, Delete.

You can check the Request Body in the document.

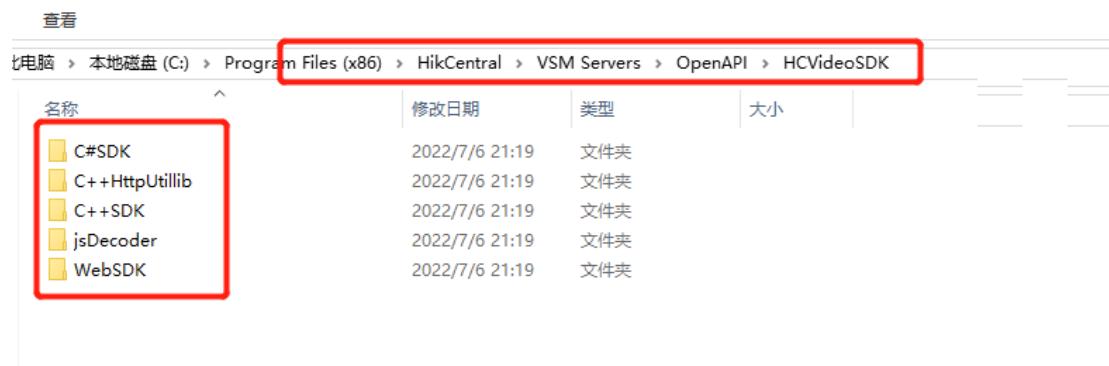
This screenshot shows a detailed view of an API call. On the left, the 'Calling Information' panel includes fields for 'API Name: Get person information', 'Protocol: HTTPS', 'HTTP Method: POST', 'Request Path: /api/resource/v1/person/personList', and 'Data Type: application/json'. It also shows 'Security Authentication: Authenticated' and 'Request Parameter' fields for 'Header', 'Query', 'Path', 'Content-Type' (set to 'application/json'), and a 'Body' field containing the JSON: '{"pageSize": 1, "seedSize": 100}'. A red box highlights this 'Body' field. On the right, the 'Returned Result' panel shows the API response in JSON format. A red box highlights the 'response' field, which contains the actual data returned by the API. The response object includes properties like 'code', 'msg', 'data', 'total', 'pageSize', 'seedSize', and a list of person objects with details such as 'personId', 'personCode', 'orghedCode', 'personName', 'personFamilyName', 'personGivenName', 'gender', 'phoneNumber', 'nickName', 'nickName', 'email', 'username', 'beginTime', 'endTime', and 'lastTime'.

This screenshot shows a file explorer window with the path: '此电脑 > 本地磁盘 (C:) > Program Files (x86) > HikCentral > VSM Servers > OpenAPI > Document'. A red box highlights the file 'HikCentral Professional OpenAPI_Developer Guide_V2.3.PDF'. The file details are shown below: '名称' (Name), '修改日期' (Last Modified), '类型' (Type), and '大小' (Size). The file was last modified on '2022/7/6 21:19', its type is 'Chrome HTML D...', and its size is '5,707 KB'.

3、Demo

We provide demo, which you can refer to when developing.

Demo Path: \HikCentral\VSM Servers\OpenAPI\HCVideoSDK



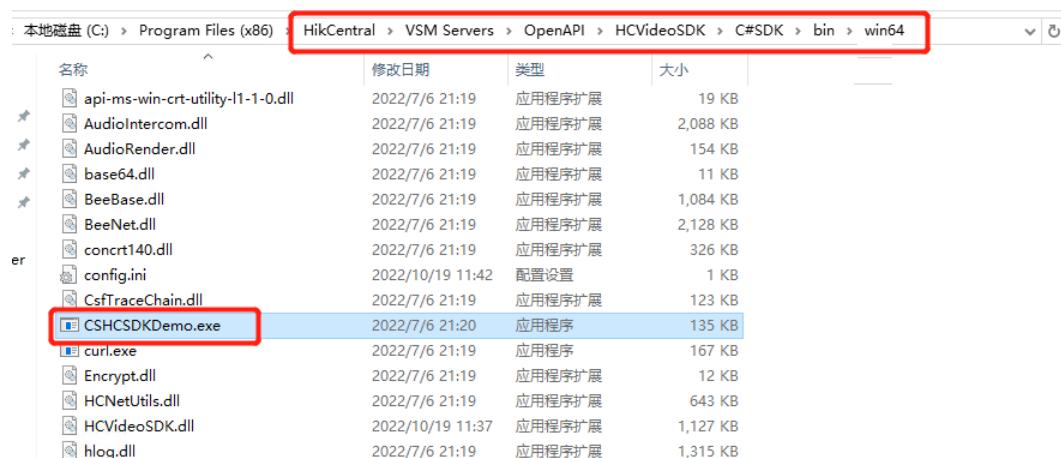
Please check the development documents of each demo.

If you want to use C # demo, please do first :

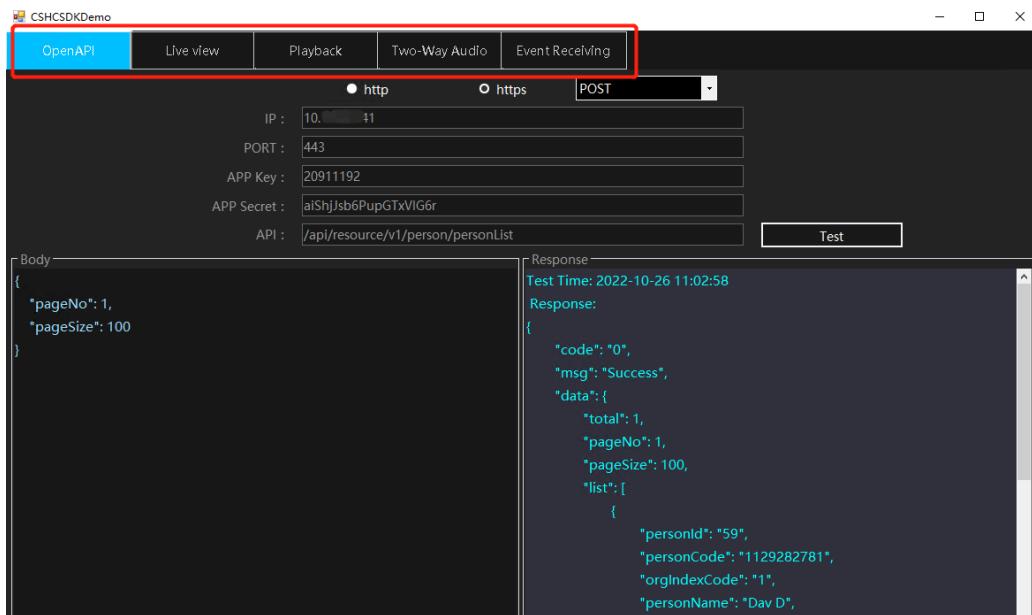
1、Copy all files in the path of “OpenAPI\HCVideoSDK\C++SDK\bin\win64” to “OpenAPI\HCVideoSDK\C#SDK\bin\win64”

2、Copy all files in the path of “OpenAPI\HCVideoSDK\C++SDK\bin\win32” to “OpenAPI\HCVideoSDK\C#SDK\bin\win32”

then , you can open C# demo.



You can use C# demo to test calling API、Live view、Playback、Two-way Audio、Event Receiving.



C++ demo

