UniFi Access API Documentation

Leverage the power of the UniFi Access API

1. Introduction

Welcome to the UniFi Access API guide, which provides a detailed step-by-step explanation of how to utilize the API effectively. The UniFi Access API is an open interface protocol that allows developers to interact with a specific service using predefined interfaces.

1.1 Create API Token & Download API Documentation

Before you can use the UniFi Access API, you need to obtain a valid API Token for authentication and access control. Follow the steps below to create an API Token:

1. Sign in to your UniFi Portal (https://account.ui.com/login) using your web browser.
2. Select the UniFi Console where the UniFi Access application is installed.
3. Go to **Access > Settings > General > Advanced**.
4. Go to **API Token** to **Download API documentation** and create an API Token.
5. To create an API Token, click **Create New**, enter the key name and validity period, select the permission scopes, and click **Create**.
6. Once the API Token is created, ensure to **Copy API Token** and store it safely for future use. Please note that the key is displayed only once for security purposes.

1.2 Obtain Your Hostname

The UniFi Access application can be hosted on a server within the local network and accessed via the LAN port. The hostname can either be the server's IP address or a custom domain name mapped to that IP. Connect using the specified port number (**12445**) and establish an HTTPS protocol for a secure connection.

1.3 Use the API

1. Construct the API request as per the instructions in the API documentation.
2. Send the constructed request to the server using the previously obtained API Token and hostname.
3. Parse the server's response to retrieve the required data or perform desired operations.

1.4 Security Configuration

1. Set up appropriate security measures to protect the API and the server.
2. Configure firewall rules to allow incoming traffic on the specific ports used by the API.
3. Enable HTTPS encryption using SSL/TLS certificates to secure data transmission.
4. Implement rate limiting and throttling mechanisms to prevent abuse and ensure fair usage.

1.5 Important Notes

1. Ensure your UniFi Access version is **1.9.1** or later.
2. **The API is not available after upgrading to Identity Enterprise.**
3. Obtain valid access permissions and adhere to the usage guidelines provided by the service provider before using the UniFi Access API.
4. Safeguard your API Token and do not share it with others to avoid security risks.
5. If you have any questions or concerns, please contact the technical support team of your service provider.

The steps above cover the basic process and essential considerations for using the UniFi Access API. Follow the instructions and refer to the API documentation for smooth development. Enjoy the convenience of using the UniFi Access API!

2. Overview

This section provides an introduction to essential concepts related to working with APIs, including API tokens, HTTP status codes, success and error codes, HTTP verbs, and API hosts.

2.1 API Token

To authenticate API requests with UniFi Access, you need to utilize API tokens associated with your account. If a request includes a deleted or expired token, the service will return an authentication error. The **Authorization Token** is obtained from UniFi Portal.

2.2 HTTP Status Code Reference

200	OK	Everything worked as expected.
400	Bad Request	The request is unacceptable, often due to missing required parameters.
401	Unauthorized	The request lacks a valid API token for authentication.
402	Request Failed	The request contains valid parameters, but failed for some reason.
403	Forbidden	The API token used does not have the necessary permissions to perform the request.
429	Too Many Requests	Too many requests were sent to the API in a short amount of time.
500, 502, 503, 504	Server Errors	Something went wrong on UniFi Access's end during request processing.

2.3 Success Code

> {"code":"SUCCESS","msg":"success"}

Code	Message
SUCCESS	Success

2.4 Error Code

> {"code":"CODE_PARAMS_INVALID","msg":"Invalid parameters."}

Code	Message
CODE_PARAMS_INVALID	The provided parameters are invalid.
CODE_SYSTEM_ERROR	An error occurred on the server's end.
CODE_RESOURCE_NOT_FOUND	The requested resource was not found.
CODE_OPERATION_FORBIDDEN	The requested operation is not allowed.
CODE_AUTH_FAILED	Authentication failed.
CODE_ACCESS_TOKEN_INVALID	The provided access token is invalid.
CODE_UNAUTHORIZED	You not are allowed to perform this action.
CODE_NOT_EXISTS	The requested item does not exist.
CODE_USER_EMAIL_ERROR	The provided email format is invalid.
CODE_USER_ACCOUNT_NOT_EXIST	The requested user account does not exist.
CODE_USER_WORKER_NOT_EXISTS	The requested user does not exist.
CODE_USER_NAME_DUPLICATED	The provided name already exists.
CODE_USER_CSV_IMPORT_INCOMPLETE_PROP	Please provide both first name and last name.
CODE_ACCESS_POLICY_USER_TIMEZONE_NOT_FOUND	The requested workday schedule could not be found.
CODE_ACCESS_POLICY_HOLIDAY_TIMEZONE_NOT_FOUND	The requested holiday schedule could not be found.
CODE_ACCESS_POLICY_HOLIDAY_GROUP_NOT_FOUND	The requested holiday group could not be found.
CODE_ACCESS_POLICY_HOLIDAY_NOT_FOUND	The requested holiday could not be found.
CODE_ACCESS_POLICY_SCHEDULE_NOT_FOUND	The requested schedule could not be found.
CODE_ACCESS_POLICY_HOLIDAY_NAME_EXIST	The provided holiday name already exists.
CODE_ACCESS_POLICY_HOLIDAY_GROUP_NAME_EXIST	The provided holiday group name already exists.
CODE_ACCESS_POLICY_SCHEDULE_NAME_EXIST	The provided schedule name already exists.
CODE_ACCESS_POLICY_SCHEDULE_CAN_NOT_DELETE	The schedule could not be deleted.
CODE_ACCESS_POLICY_HOLIDAY_GROUP_CAN_NOT_DELETE	The holiday group could not be deleted.
CODE_CREDS_NFC_HAS_BIND_USER	The NFC card is already registered and assigned to another user.
CODE_CREDS_DISABLE_TRANSFER_UID_USER_NFC	The UniFi Identity Enterprise user's NFC card is not transferrable.
CODE_CREDS_NFC_READ_SESSION_NOT_FOUND	Failed to obtain the NFC read session.
CODE_CREDS_NFC_READ_POLL_TOKEN_EMPTY	The NFC token is empty.
CODE_CREDS_NFC_CARD_IS_PROVISION	The NFC card is already registered at another site.
CODE_CREDS_NFC_CARD_PROVISION_FAILED	Please hold the NFC card against the reader for more than 5 seconds.
CODE_CREDS_NFC_CARD_INVALID	The card type is not supported. Please use a UA Card.
CODE_CREDS_NFC_CARD_CANNOT_BE_DELETE	The NFC card could not be deleted.
CODE_CREDS_PIN_CODE_CREDS_ALREADY_EXIST	The PIN code already exists.
CODE_CREDS_PIN_CODE_CREDS_LENGTH_INVALID	The PIN code length does not meet the preset requirements.
CODE_SPACE_DEVICE_BOUND_LOCATION_NOT_FOUND	The device's location was not found.
CODE_DEVICE_DEVICE_VERSION_NOT_FOUND	The firmware version is up to date.

CODE_DEVICE_DEVICE_VERSION_TOO_OLD	The firmware version is too old. Please update to the latest version.
CODE_DEVICE_DEVICE_BUSY	The camera is currently in use.
CODE_DEVICE_DEVICE_NOT_FOUND	The device was not found.
CODE_DEVICE_DEVICE_OFFLINE	The device is currently offline.
CODE_OTHERS_UID_ADOPTED_NOT_SUPPORTED	The API is not available after upgrading to Identity Enterprise.
CODE_HOLIDAY_GROUP_CAN_NOT_DELETE	The holiday group could not be deleted.
CODE_HOLIDAY_GROUP_CAN_NOT_EDIT	The holiday group could not be edited.
CODE_DEVICE_WEBHOOK_ENDPOINT_DUPLICATED	The provided endpoint already exists.

2.5 HTTP Verbs

HTTP Method	Description
GET	Used for retrieving objects.
POST	Used for creating objects or performing custom actions.
PUT	Used for replacing objects or collections.
DELETE	Used for deleting objects.

2.6 API Host

The Open API Server is hosted on port 12445 and can be accessed via HTTPS at https://console-ip:12445. The server certificate is self-generated and untrusted.

2.7 Request Header

The header for a request contains the following information:

Parameter	Required	Type	Description	Example
Authorization	T	String	Token required for authentication and access control.	Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg

2.8 Response Schema

The response for a request contains the following information:

```
{
  "code": "SUCCESS",
  "msg": "success",
  "data": {}
}
```

1. code: Represents the result of request handling and indicates success or failure.
2. msg: Represents the error description if the code is not equal to 1.
3. data: Represents the data of API requests.

3. User

> The APIs here are designed for managing users, including handling their basic information and assigning NFC cards, PIN codes, and access policies to them.

3.1 Schemas

Parameter	Type	Description
Id	String	Identity ID of the user.
first_name	String	First name of the user.
last_name	String	Last name of the user.
full_name	String	Full name of the user.
alias	String	Preferred name of the user.
user_email	String	Email of the user. **UniFi Access Requirement:** `1.22.16 or later`
email_status	String	The status of the user's email.
phone	String	Contact phone number of the user.
employee_number	String	Employee number of the user.
onboard_time	Integer	User onboarding date.
nfc_cards	Array[Object]	Token associated with the bound NFC card.
nfc_cards[].id	String	Display ID of the NFC card.
nfc_cards[].token	String	Unique NFC card token.
pin_code	Object	Token associated with the bound PIN code.
pin_code.token	String	The user's PIN hash code credential for unlocking a door.
access_policy_ids	Array[String]	Collection of the access policy ID.
access_policies	Array[Object]	All policies assigned to the user.
status	String	`enum status {ACTIVE,PENDING,DEACTIVATED}` **ACTIVE**: The user account is in active status. **PENDING**: A new admin account has been invited by the SSO account, but the invitation has not been accepted. **DEACTIVATED**: The account has been deactivated.

3.2 User Registration

This API allows you to register a new user.

- Request URL: `/api/v1/developer/users`
- Permission Key: `edit:user`

- Method: `POST`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Body

Parameter	Required	Type	Description	Example	How to Get It?
first_name	T	String	First name of the user.		
last_name	T	String	Last name of the user.		
user_email	F	String	Email of the user. **UniFi Access Requirement:** `1.22.16 or later`		
employee_number	F	String	Employee number of the user. **Omit this parameter if it doesn't need to be updated.**		
onboard_time	F	Integer	User onboarding date.	1689150139	

Response Body

> Schemas: Schemas

Response Sample

```
{
    "code": "SUCCESS",
    "msg": "success",
    "data": {
        "first_name": "Fist Name",
        "last_name": "Last Name",
        "id": "37f2b996-c2c5-487b-aa22-8b453ff14a4b",
        "user_email": "example@*.com"
     }
}
```

Request Sample

The request body should be a JSON object containing the following fields:

```
curl '{{host}}/api/v1/developer/users'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data-raw '{
        "first_name":"H",
        "last_name":"L",
        "employee_number":"100000",
        "onboard_time":1689150139,
        "user_email": "example@*.com"
    }'
    --insecure
```

3.3 Update User

This API allows you to update user details.

- Request URL: `/api/v1/developer/users/:id`
- Permission Key: `edit:user`
- Method: `PUT`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	Example
id	T	String	Identity ID of the user.	348e868e-534a-4ace-ba77-ce80394e31e3

Request Body

Parameter	Required	Type	Description	Example	How to Get It?
first_name	F	String	First name of the user.		
last_name	F	String	Last name of the user.		
user_email	F	String	Email of the user. **UniFi Access Requirement:** `1.22.16 or later`		
employee_number	F	String	Employee number of the user.		
onboard_time	F	Integer	User onboarding date.	1689150139	
status	F	String	Status of the user.	"ACTIVE" "DEACTIVATED"	

Response Body

> Schemas: Schemas

Response Sample

```
{
    "code": "SUCCESS",
    "data": null,
    "msg": "success"
}
```

Request Sample

The request body should be a JSON object containing the following fields:

```
curl -XPUT '{{host}}/api/v1/developer/user'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data-raw '{
        "first_name":"H",
        "last_name":"L",
        "employee_number":"",
        "user_email":"example@*.com",
        "pin_code":"",
        "onboard_time":1689150139,
        "status": "ACTIVE"
    }'
    --insecure
```

3.4 Fetch User

This API allows you to fetch user details.

- Request URL: `/api/v1/developer/users/:id`
- Permission Key: `view:user`
- Method: `GET`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	Example
id	T	String	Identity ID of the user.	348e868e-534a-4ace-ba77-ce80394e31e3

Query Parameters

Parameter	Required	Type	Description	Example
expand[]	F	Boolean	Determine whether to return the access policies assigned to a user (Optional).	expand[]=access_policy

Response Body

> Schemas: Schemas

Response Sample

```
{
    "code": "SUCCESS",
    "data": {
        "access_policies": [
            {
                "id": "edbc80df-3698-49fd-8b53-f1867f104947",
                "name": "test",
                "resources": [
                    {
                        "id": "d5573467-d6b3-4e8f-8e48-8a322b91664a",
                        "type": "door_group"
                    },
                    {
                        "id": "5c496423-6d25-4e4f-8cdf-95ad5135188a",
                        "type": "door_group"
                    },
                    {
                        "id": "6ff875d2-af87-470b-9cb5-774c6596afc8",
                        "type": "door"
                    }
                ],
                "schedule_id": "73facd6c-839e-4521-a4f4-c07e1d44e748"
            }
        ],
        "access_policy_ids": [
            "edbc80df-3698-49fd-8b53-f1867f104947"
        ],
        "employee_number": "",
        "first_name": "***",
        "id": "17d2f099-99df-429b-becb-1399a6937e5a",
        "last_name": "L",
        "user_email": "example@*.com",
        "nfc_cards": [
            {
                "id": "100001",
                "token": "d27822fc682b478dc637c6db01813e465174df6e54ca515d8427db623cfda1d0",
                "type": "ua_card"
            }
        ],
        "onboard_time": 1689047588,
        "pin_code": {
            "token": "5f742ee4424e5a7dd265de3461009b9ebafa1fb9d6b15018842055cc0466ac56"
        },
        "status": "ACTIVE"
    },
    "msg": "success"
}
```

Request Sample

The request body should be a JSON object containing the following fields:

```
curl -XGET '{{host}}/api/v1/developer/users/348e868e-534a-4ace-ba77-ce80394e31e3?expand[]=access_policy'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

3.5 Fetch All Users

This API allows you to fetch all users.

- Request URL: `/api/v1/developer/users`
- Permission Key: `view:user`
- Method: `GET`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Query Parameters

Parameter	Required	Type	Description	Example
expand[]	F	Boolean	Determine whether to return the access policies assigned to a user (Optional).	expand[]=access_policy
page_num	F	String	Current page number in the pagination.	1
page_size	F	String	Number of users per page.	25

Response Body

> Schemas: Schemas

Response Sample

```
{
    "code": "SUCCESS",
    "data": [
        {
            "access_policies": [
                {
                    "id": "73f15cab-c725-4a76-a419-a4026d131e96",
                    "name": "Default Admin Policy",
                    "resources": [
                        {
                            "id": "d5573467-d6b3-4e8f-8e48-8a322b91664a",
                            "type": "door_group"
                        },
                        {
                            "id": "5c496423-6d25-4e4f-8cdf-95ad5135188a",
                            "type": "door_group"
                        }
                    ],
                    "schedule_id": "73facd6c-839e-4521-a4f4-c07e1d44e748"
                }
            ],
            "access_policy_ids": [
                "73f15cab-c725-4a76-a419-a4026d131e96"
            ],
            "employee_number": "",
            "first_name": "UniFi",
            "id": "83569f9b-0096-48ab-b2e4-5c9a598568a8",
            "last_name": "User",
            "user_email": "",
            "nfc_cards": [],
            "onboard_time": 0,
            "pin_code": null,
            "status": "ACTIVE"
        },
        {
            "access_policies": [
                {
                    "id": "c1682fb8-ef6e-4fe2-aa8a-b6f29df753ff",
                    "name": "policy_1690272668035",
                    "resources": [
                        {
                            "id": "6ff875d2-af87-470b-9cb5-774c6596afc8",
                            "type": "door"
                        }
                    ],
                    "schedule_id": "0616ef06-b807-4372-9ae0-7a87e12e4019"
                }
            ],
            "access_policy_ids": [
                "c1682fb8-ef6e-4fe2-aa8a-b6f29df753ff"
            ],
            "employee_number": "",
            "first_name": "Ttttt",
            "id": "3a3ba57a-796e-46e0-b8f3-478bb70a114d",
            "last_name": "Tttt",
            "nfc_cards": [],
            "onboard_time": 1689048000,
            "pin_code": null,
            "status": "ACTIVE"
        }
    ],
    "msg": "success",
    "pagination": {
        "page_num": 1,
        "page_size": 97,
        "total": 97
    }
}
```

Request Sample

The request body should be a JSON object containing the following fields:

```
curl -XGET '{{host}}/api/v1/developer/users?page_num=1&page_size=25&expand[]=access_policy'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

3.6 Assign Access Policy to User

- Request URL: `/api/v1/developer/users/:id/access_policies`
- Permission Key: `edit:user`
- Method: `PUT`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	How to Get It?
id	T	String	Identity ID of the user.	Get it from the API `/api/v1/developer/users`

Request Body

Parameter	Required	Type	Description	How to Get It?
access_policy_ids	T	Array[String]	Collection of multiple policy IDs.	Get it from the API `/api/v1/developer/access_policies`

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
//assign access policies to user
curl -XPUT '{{host}}/api/v1/developer/users/38857332-7a5e-4bb6-8837-651b2a47cea5/access_policies'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data-raw '{
        "access_policy_ids":[
            "03895c7f-9f53-4334-812b-5db9c122c109",
            "3b6bcb0c-7498-44cf-8615-00a96d824cbe"
        ]
    }'
    --insecure

//remove all access policies from user
curl -XPUT '{{host}}/api/v1/developer/users/38857332-7a5e-4bb6-8837-651b2a47cea5/access_policies'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data-raw '{
        "access_policy_ids":[]
    }'
    --insecure
```

Response Sample

```
{"code":"SUCCESS","msg":"success"}
```

3.7 Assign NFC Card to User

- Request URL: `/api/v1/developer/users/:id/nfc_cards`
- Permission Key: `edit:user`
- Method: `PUT`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	How to Get It?
id	T	String	Identity ID of the user.	Get it from the API `/api/v1/developer/users`

Request Body

Parameter	Required	Type	Description	How to Get It?
token	T	String	Token of the NFC card.	Get it from the API `/api/v1/developer/nfc_cards/sessions/{session_id}`
force_add	F	Boolean	Determine whether to overwrite an NFC card that has already been assigned.	true or false

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl -XPUT '{{host}}/api/v1/developer/users/17d2f099-99df-429b-becb-1399a6937e5a/nfc_cards'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data-raw '{
        "token": "d27822fc682b478dc637c6db01813e465174df6e54ca515d8427db623cfda1d0",
        "force_add": true
    }'

```

Response Sample

```
{"code":"SUCCESS","msg":"success"}
```

3.8 Unassign NFC Card from User

- Request URL: `/api/v1/developer/users/:id/nfc_cards/delete`
- Permission Key: `edit:user`
- Method: `PUT`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	How to Get It?
id	T	String	Identity ID of the user.	Get it from the API `/api/v1/developer/users`

Request Body

Parameter	Required	Type	Description	How to Get It?
token	T	String	Token of the NFC card.	Get it from the API `/api/v1/developer/users`

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl -XDELETE '{{host}}/api/v1/developer/users/17d2f099-99df-429b-becb-1399a6937e5a/nfc_cards/delete'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    -d '{
        "token": "d27822fc682b478dc637c6db01813e465174df6e54ca515d8427db623cfda1d0"
    }'
    --insecure

```

Response Sample

```
{"code":"SUCCESS","msg":"success"}
```

3.9 Assign PIN Code to User

- Request URL: `/api/v1/developer/users/:id/pin_codes`
- Permission Key: `edit:user`
- Method: `PUT`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	How to Get It?
id	T	String	Identity ID of the user.	Get it from the API `/api/v1/developer/users`

Request Body

Parameter	Required	Type	Description	How to Get It?
pin_code	T	String	Generate a PIN code for the user to unlock doors.	Get it from the API `/api/v1/developer/pin_codes`

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl -XPUT '{{host}}/api/v1/developer/users/17d2f099-99df-429b-becb-1399a6937e5a/pin_codes'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data-raw '{
        "pin_code": "57301208"
    }'
    --insecure

```

Response Sample

```
{"code":"SUCCESS","msg":"success"}
```

3.10 Unassign PIN Code from User

- Request URL: `/api/v1/developer/users/:id/pin_codes`
- Permission Key: `edit:user`
- Method: `DELETE`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	How to Get It?
id	T	String	Identity ID of the user.	Get it from the API `/api/v1/developer/users`

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl -XDELETE '{{host}}/api/v1/developer/users/17d2f099-99df-429b-becb-1399a6937e5a/pin_codes'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure

```

Response Sample

```
{"code":"SUCCESS","msg":"success"}
```

3.11 Create User Group

- Request URL: `/api/v1/developer/user_groups`
- Permission Key: `edit:user`
- Method: `POST`
- UniFi Access Requirement: `2.2.6 or later`
- API version: `v1`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Body

Parameter	Required	Type	Description	How to Get It?
name	T	String	Name of the group.	
up_id	F	String	Parent group ID **(Optional)**	Get it from the API `/api/v1/developer/user_groups`

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl -XPOST '{{host}}/api/v1/developer/user_groups'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data-raw '{
        "name": "Group Name",
        "up_id": "013d05d3-7262-4908-ba69-badbbbf8f5a6"
    }'
    --insecure

```

Response Sample

```
{"code":"SUCCESS","msg":"success"}
```

3.12 Fetch All User Groups

- Request URL: `/api/v1/developer/user_groups`
- Permission Key: `view:user`
- Method: `GET`
- UniFi Access Requirement: `2.2.6 or later`
- API version: `v1`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl -XGET '{{host}}/api/v1/developer/developer/user_groups'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure

```

Response Sample

```
{
    "code": "SUCCESS",
    "data": [
        {
            "full_name": "Group Name",
            "id": "75011ee6-b7ab-4927-9d9f-dd08ef0a3199",
            "name": "Group Name",
            "up_id": "a27899fc-a2d1-4797-8d4d-86118f8555f3",
            "up_ids": [
                "a27899fc-a2d1-4797-8d4d-86118f8555f3"
            ]
        }
    ],
    "msg": "success"
}
```

3.13 Fetch User Group

- Request URL: `/api/v1/developer/user_groups/:id`
- Permission Key: `view:user`
- Method: `GET`
- UniFi Access Requirement: `2.2.6 or later`
- API version: `v1`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	How to Get It?
id	T	String	Identity ID of the user group.	Get it from the API `/api/v1/developer/user_groups`

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl -XGET '{{host}}/api/v1/developer/developer/user_groups/75011ee6-b7ab-4927-9d9f-dd08ef0a3199'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure

```

Response Sample

```
{
    "code": "SUCCESS",
    "data": {
        "full_name": "Group Name",
        "id": "75011ee6-b7ab-4927-9d9f-dd08ef0a3199",
        "name": "Group Name",
        "up_id": "a27899fc-a2d1-4797-8d4d-86118f8555f3",
        "up_ids": [
            "a27899fc-a2d1-4797-8d4d-86118f8555f3"
        ]
    },
    "msg": "success"
}
```

3.14 Update User Group

- Request URL: `/api/v1/developer/user_groups/:id`
- Permission Key: `edit:user`
- Method: `PUT`
- UniFi Access Requirement: `2.2.6 or later`
- API version: `v1`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	How to Get It?
id	T	String	Identity ID of the user group.	Get it from the API `/api/v1/developer/user_groups`

Request Body

Parameter	Required	Type	Description	How to Get It?
name	T	String	Name of the group.	
up_id	F	String	Parent group ID	Get it from the API `/api/v1/developer/user_groups`

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl -XPUT '{{host}}/api/v1/developer/user_groups/75011ee6-b7ab-4927-9d9f-dd08ef0a3199'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data-raw '{
        "name": "Group Name",
        "up_id": "013d05d3-7262-4908-ba69-badbbbf8f5a6"
    }'
    --insecure

```

Response Sample

```
{"code":"SUCCESS","msg":"success"}
```

3.15 Delete User Group

- Request URL: `/api/v1/developer/user_groups/:id`
- Permission Key: `edit:user`
- Method: `DELETE`
- UniFi Access Requirement: `2.2.6 or later`
- API version: `v1`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	How to Get It?
id	T	String	Identity ID of the user group.	Get it from the API `/api/v1/developer/user_groups`

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl -XDELETE '{{host}}/api/v1/developer/developer/user_groups/75011ee6-b7ab-4927-9d9f-dd08ef0a3199'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure

```

Response Sample

```
{"code":"SUCCESS","msg":"success"}
```

3.16 Assign User to User Group

- Request URL: `/api/v1/developer/user_groups/:id/users`
- Permission Key: `edit:user`
- Method: `POST`
- UniFi Access Requirement: `2.2.6 or later`
- API version: `v1`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	How to Get It?
id	T	String	Identity ID of the user group.	Get it from the API `/api/v1/developer/user_groups`

Request Body

Parameter	Required	Type	Description	How to Get It?
	T	Array[String]	Identity ID of the user.	Get it from the API `/api/v1/developer/users`

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl -XPOST '{{host}}/api/v1/developer/user_groups/75011ee6-b7ab-4927-9d9f-dd08ef0a3199/users'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data-raw '[
        "7c6e9102-acb7-4b89-8ed4-7561e6fb706c",
        "fd63bc4c-52e0-4dbf-a699-e1233339c73b"
   ]'
    --insecure

```

Response Sample

```
{"code":"SUCCESS","msg":"success"}
```

3.17 Unassign User from User Group

- Request URL: `/api/v1/developer/user_groups/:id/users/delete`
- Permission Key: `edit:user`
- Method: `POST`
- UniFi Access Requirement: `2.2.6 or later`
- API version: `v1`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	How to Get It?
id	T	String	Identity ID of the user group.	Get it from the API `/api/v1/developer/user_groups`

Request Body

Parameter	Required	Type	Description	How to Get It?
	T	Array[String]	Identity ID of the user.	Get it from the API `/api/v1/developer/users`

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl -XPOST '{{host}}/api/v1/developer/user_groups/75011ee6-b7ab-4927-9d9f-dd08ef0a3199/users/delete'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data-raw '[
        "7c6e9102-acb7-4b89-8ed4-7561e6fb706c",
        "fd63bc4c-52e0-4dbf-a699-e1233339c73b"
   ]'
    --insecure

```

Response Sample

```
{"code":"SUCCESS","msg":"success"}
```

3.18 Fetch Users in a User Group

> This API allows you to fetch only the users in a user group, excluding any subgroups.

- Request URL: `/api/v1/developer/user_groups/:id/users`
- Permission Key: `view:user`
- Method: `GET`

- UniFi Access Requirement: `2.2.6 or later`
- API version: `v1`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	How to Get It?
id	T	String	Identity ID of the user group.	Get it from the API `/api/v1/developer/user_groups`

Response Body

> Schemas: Schemas

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl -XGET '{{host}}/api/v1/developer/user_groups/23676a54-382e-4121-aa80-878d2d9bacaa/users'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure

```

Response Sample

```
{
    "code": "SUCCESS",
    "data": [
        {
            "alias": "",
            "avatar_relative_path": "",
            "email": "*@*.com",
            "email_status": "UNVERIFIED",
            "employee_number": "1000000",
            "first_name": "",
            "full_name": "",
            "id": "27aa91ac-2924-43d4-82e1-24b6a570d29e",
            "last_name": "Chen",
            "onboard_time": 1689150139,
            "phone": "",
            "status": "ACTIVE",
            "user_email": "",
            "username": ""
        }
    ],
    "msg": "success"
}
```

3.19 Fetch All Users in a User Group

> This API allows you to fetch all users in a user group, including those in subgroups.

- Request URL: `/api/v1/developer/user_groups/:id/users/all`
- Permission Key: `view:user`
- Method: `GET`
- UniFi Access Requirement: `2.2.6 or later`
- API version: `v1`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	How to Get It?
id	T	String	Identity ID of the user group.	Get it from the API `/api/v1/developer/user_groups`

Response Body

> Schemas: Schemas

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl -XGET '{{host}}/api/v1/developer/user_groups/23676a54-382e-4121-aa80-878d2d9bacaa/users/all'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure

```

Response Sample

```json
{
    "code": "SUCCESS",
    "data": [
        {
            "alias": "",
            "avatar_relative_path": "",
            "email": "*@*.com",
            "email_status": "UNVERIFIED",
            "employee_number": "1000000",
            "first_name": "",
            "full_name": "",
            "id": "27aa91ac-2924-43d4-82e1-24b6a570d29e",
            "last_name": "Chen",
            "onboard_time": 1689150139,
            "phone": "",
            "status": "ACTIVE",
            "user_email": "",
            "username": ""
        }
    ],
    "msg": "success"
}
```

3.20 Fetch the Access Policies Assigned to a User

> This API allows you to fetch the access policies assigned to a user.

- Request URL: `/api/v1/developer/users/:id/access_policies`
- Permission Key: `view:user`
- Method: `GET`
- UniFi Access Requirement: `2.2.6 or later`
- API version: `v1`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	How to Get It?
id	T	String	Identity ID of the user.	Get it from the API `/api/v1/developer/users`

Query Parameters

Parameter	Required	Type	Description	Example
only_user_policies	F	Boolean	If 'only_user_policies' is set to false, all policies of the group the user belongs to are displayed. If set to true, only the policies assigned directly to the user are shown.	only_user_policies=true

Response Body

> Schemas: Schemas

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl -XGET '{{host}}/users/27aa91ac-2924-43d4-82e1-24b6a570d29e/access_policies?only_user_policies=false'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure

```

Response Sample

```
{
    "code": "SUCCESS",
    "data": [
        {
            "id": "89a4ca95-1502-4ae7-954f-d986b67afe5c",
            "name": "Default Site Policy",
            "resources": [
                {
                    "id": "fd2a06e2-81af-4cf4-9bd5-8bceb5e7b7d7",
                    "type": "door_group"
                }
            ],
            "schedule_id": "6b79d12a-2a6e-4463-949c-f1a98fff40d2"
        },
        {
            "id": "bbe48a65-2ac1-4bf6-bd65-bc8f9ee7fb75",
            "name": "Access Policy Name",
            "resources": [],
            "schedule_id": "f7414bcd-f0cc-4d3e-811a-b5ac75f7ddb8"
        }
    ],
    "msg": "success"
}
```

3.21 Assign Access Policy to User Group

> This API is used to assign access policies to a user group.

- Request URL: `/api/v1/developer/user_groups/:id/access_policies`
- Permission Key: `edit:user`
- Method: `PUT`
- UniFi Access Requirement: `2.2.6 or later`
- API version: `v1`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	How to Get It?
id	T	String	Identity ID of the user group.	Get it from the API `/api/v1/developer/user_groups`

Request Body

Parameter	Required	Type	Description	How to Get It?
access_policy_ids	T	Array[String]	Identity ID of the access policy.	Get it from the API `/api/v1/developer/access_policies`

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl -XPUT '{{host}}/user_groups/23676a54-382e-4121-aa80-878d2d9bacaa/access_policies'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data '{
        "access_policy_ids": [
            "bbe48a65-2ac1-4bf6-bd65-bc8f9ee7fb75"
         ]
    }'
    --insecure

```

Response Sample

```
{
    "code": "SUCCESS",
    "data": null,
    "msg": "success"
}
```

3.22 Fetch the Access Policies Assigned to a User Group

> This API allows you to fetch the access policies assigned to a user group.

- Request URL: `/api/v1/developer/user_groups/:id/access_policies`
- Permission Key: `view:user`
- Method: `GET`
- UniFi Access Requirement: `2.2.6 or later`
- API version: `v1`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	How to Get It?
id	T	String	Identity ID of the user group.	Get it from the API `/api/v1/developer/user_groups`

Response Body

> Schemas: Schemas

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl -XGET '{{host}}/user_groups/23676a54-382e-4121-aa80-878d2d9bacaa/access_policies'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure

```

Response Sample

```
{
    "code": "SUCCESS",
    "data": [
        {
            "id": "89a4ca95-1502-4ae7-954f-d986b67afe5c",
            "name": "Default Site Policy",
            "resources": [
                {
                    "id": "fd2a06e2-81af-4cf4-9bd5-8bceb5e7b7d7",
                    "type": "door_group"
                }
            ],
            "schedule_id": "6b79d12a-2a6e-4463-949c-f1a98fff40d2"
        },
        {
            "id": "bbe48a65-2ac1-4bf6-bd65-bc8f9ee7fb75",
            "name": "Access Policy Name",
            "resources": [],
            "schedule_id": "f7414bcd-f0cc-4d3e-811a-b5ac75f7ddb8"
        }
    ],
    "msg": "success"
}
```

4. Visitor

> The APIs here are designed for managing visitors, including creating, viewing, and deleting visitors. They also enable the assigning of NFC cards, schedules, PIN codes, locations, and other access resources to visitors.

4.1 Schemas

Parameter	Type	Description
Id	String	Identity ID of the visitor.
first_name	String	First name of the visitor.
last_name	String	Last name of the visitor.
status	String	The visitor's status. `enum status {UPCOMING=1,VISITED=2,VISITING=3,CANCELLED=4,NO_VISIT=5,ACTIVE=6}`
inviter_id	String	Identity ID of the inviter.
inviter_name	String	Name of the inviter.
mobile_phone	String	Contact phone number of the visitor.
remarks	String	Remarks of the visitor.
email	String	Email of the visitor.
visitor_company	String	Company of the visitor.
visit_reason	String	Visit reason: `enum reason {Interview,Business,Cooperation,Others}`
start_time	Integer	Start time of the visit.
end_time	Integer	End time of the visit.
nfc_cards	Array[Object]	Token associated with the bound NFC card.
nfc_cards[].id	String	Display ID of the NFC card.
nfc_cards[].token	String	Unique NFC card token.
pin_code	Object	Token associated with the bound PIN code.
pin_code.token	String	The user's PIN hash code credential for unlocking a door.
schedule_id	String	Identity ID of the schedule.
schedule	Object	The schedule assigned to the visitor. **If the `schedule` information is present, it indicates that the visit schedule is recurring. If the `schedule` information is not included, it indicates a one-time visit schedule.**
schedule.name	String	Name of the schedule.
schedule.type	String	Type of the schedule.
schedule.week_schedule	Object	The customizable scheduling strategy for each day from Sunday to Saturday. If not specified, it means access is allowed every day.
schedule.week_schedule.monday	Array[Object]	Specify the daily access time period from Sunday to Saturday.
schedule.week_schedule.monday[0].start_time	String	Start time of the access time period.
schedule.week_schedule.monday[0].end_time	String	End time of the access time period.
resources	Array[Object]	Specify the locations that the visitor can access.
resources[0].id	String	Identity ID of the door group.
resources[0].name	String	Name of the door group.
resources[0].type	String	Type of the door group.

4.2 Create Visitor

This API enables you to create a new visitor.

- Request URL: `/api/v1/developer/visitors`
- Permission Key: `edit:visitor`
- Method: `POST`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Body

Parameter	Required	Type	Description	Example	How to Get It?
first_name	T	String	First name of the visitor.		
last_name	T	String	Last name of the visitor.		
remarks	F	String	Remarks about the visitor.		
mobile_phone	F	String	Mobile phone number of the visitor.		
email	F	String	Email address of the visitor.		
visitor_company	F	String	Company name of the visitor.		
start_time	T	Integer	Start time of the visit.	1688546460	
end_time	T	Integer	End time of the visit.	1688572799	
visit_reason	T	String	Visit reason: `enum reason {Interview,Business,Cooperation,Others}`	Interview	

> Assign Available Locations to Visitor

Parameter	Required	Type	Description	Example	How to Get It?
resources	F	Array[Object]	Assign available locations to the visitor.		Get it from the API `/api/v1/developer/door_groups/topology`
resources[0].id	F	String	When resource type is `door_group`, it refers to the group ID of a building or a customized door group. When type is `door`, it refers to the ID of a door.	9bee6e0e-108d-4c52-9107-76f2c7dea4f1	
resources[0].type	F	String	Support both `door` and `door_group`.	door_group	

> Assigned Schedules To Visitor
>
> If the `week_schedule` information is present, it indicates that the visit schedule is recurring. If the `week_schedule` information is not included, it indicates a one-time visit schedule.

Parameter	Required	Type	Description	Example
week_schedule	F	Object	The customizable scheduling strategy for each day from Sunday to Saturday. If not specified, it means access is allowed every day.	
week_schedule.monday	F	Array[Object]	Specify the daily access time period from Sunday to Saturday.	
week_schedule.monday[0].start_time	F	String	Start time of the access time period.	00:00:00
week_schedule.monday[0].end_time	F	String	End time of the access time period.	23:59:59

Response Body

> Schemas: Schemas

Response Sample

```
{
    "code": "SUCCESS",
    "data": {
        "first_name": "H",
        "id": "fbe8d920-47d3-4cfd-bda7-bf4b0e26f73c",
        "last_name": "L",
        "nfc_cards": [],
        "resources": [
            {
                "id": "5c496423-6d25-4e4f-8cdf-95ad5135188a",
                "name": "Test Group",
                "type": "door_group"
            },
            {
                "id": "d5573467-d6b3-4e8f-8e48-8a322b91664a",
                "name": "UNVR",
                "type": "door_group"
            },
            {
                "id": "369215b0-cabe-49b6-aeaa-e0b7ec6424d5",
                "name": "visitor-1691671529285",
                "type": "door_group"
            }
        ],
        "schedule": {
            "id": "1fb849bb-e7e5-4516-8dd9-b78094a6708a",
            "is_default": false,
            "name": "schedule-1691671529237",
            "type": "access",
            "weekly": {
                "friday": [
                    {
                        "end_time": "17:00:59",
                        "start_time": "10:00:00"
                    }
                ],
                "monday": [],
                "saturday": [],
                "sunday": [],
                "thursday": [
                    {
                        "end_time": "17:00:59",
                        "start_time": "11:00:00"
                    }
                ],
                "tuesday": [
                    {
                        "end_time": "17:00:59",
                        "start_time": "10:00:00"
                    }
                ],
                "wednesday": [
                    {
                        "end_time": "17:00:59",
                        "start_time": "10:00:00"
                    }
                ]
            }
        },
        "schedule_id": "1fb849bb-e7e5-4516-8dd9-b78094a6708a",
        "status": "ACTIVE"
    },
    "msg": "success"
}
```

Request Sample

The request body should be a JSON object containing the following fields:

```
curl '{{host}}/api/v1/developer/visitors'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'   --data-raw
    '{
        "first_name": "H",
        "last_name": "L",
        "remarks": "",
        "mobile_phone": "",
        "email": "",
        "visitor_company": "",
        "start_time": 1688546460,
        "end_time": 1788572799,
        "visit_reason": "Interviemw",
        "week_schedule": {
            "sunday": [],
            "monday": [],
            "tuesday": [
                {
                    "start_time": "10:00:00",
                    "end_time": "17:00:59"
                }
            ],
            "wednesday": [
                {
                    "start_time": "10:00:00",
                    "end_time": "17:00:59"
                }
            ],
            "thursday": [
                {
                    "start_time": "11:00:00",
                    "end_time": "17:00:59"
                }
            ],
            "friday": [
                {
                    "start_time": "10:00:00",
                    "end_time": "17:00:59"
                }
            ],
            "saturday": []
        },
        "resources": [
            {
                "id": "6ff875d2-af87-470b-9cb5-774c6596afc8",
                "type": "door"
            },
            {
                "id": "5c496423-6d25-4e4f-8cdf-95ad5135188a",
                "type": "door_group"
            },
            {
                "id": "d5573467-d6b3-4e8f-8e48-8a322b91664a",
                "type": "door_group"
            }
        ]
    }'
    --insecure
```

4.3 Fetch Visitor

This API enables you to fetch visitor details.

- Request URL: `/api/v1/developer/visitors/:id`
- Permission Key: `view:visitor`
- Method: `GET`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	
id	T	String	Identity ID of the visitor.	

Response Body

> Schemas: Schemas

Response Sample

```
{
    "code": "SUCCESS",
    "data": {
        "first_name": "Hong+243",
        "id": "3566867c-fa04-4752-98f6-43cf9a342d4a",
        "last_name": "Lu",
        "nfc_cards": [
            {
                "id": "100001",
                "token": "d27822fc682b478dc637c6db01813e465174df6e54ca515d8427db623cfda1d0",
                "type": "ua_card"
            }
        ],
        "pin_code": {
            "token": "bc3e3135013e2dcae119390b7897166e8cec3bcf5becb6b05578ab67634559ed"
        },
        "resources": [
            {
                "id": "fd293ecb-98d2-425b-a020-cb9365ea48b3",
                "name": "visitor-1690337152955",
                "type": "door_group"
            }
        ],
        "schedule": {
            "id": "6ccf9e1e-b174-476d-b2fe-96817c780fbf",
            "is_default": false,
            "name": "visitor-1690337152955",
            "type": "access",
            "weekly": null
        },
        "schedule_id": "6ccf9e1e-b174-476d-b2fe-96817c780fbf",
        "status": "VISITED"
    },
    "msg": "success"
}
```

Request Sample

The request body should be a JSON object containing the following fields:

```
curl -XGET '{{host}}/api/v1/developer/visitors/76794bd8-98c0-49b6-9230-ba8c5812cf29'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

4.4 Fetch All Visitors

This API enables you to fetch the list of all visitors.

- Request URL: `/api/v1/developer/visitors`
- Permission Key: `view:visitor`
- Method: `GET`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Query Parameters

Parameter	Required	Type	Description	Example
status	F	Integer	The visitor's status. `enum status` `{UPCOMING=1,VISITED=2,VISITING=3,CANCELLED=4,NO_VISIT=5,ACTIVE=6}`	1
keyword	F	String	Support prefix matching for first name and last name. **NOTE**: The status filtering is disabled when searching with keyword.	H
page_num	F	String	Current page number in the pagination.	1
page_size	F	String	Number of visitors per page.	25
expand[]	F	string	Determine whether to return the objects (Optional). currently supports the following objects: `enum objects` `{none,access_policy,resource,schedule,nfc_card,pin_code}`. For the "none" option, it means that no object will be returned. **UniFi Access Requirement:** **`1.22.16 or later`**	expand[]=access_policy&expand[]=resource&expand[]=schedule&expand[]=nfc_card&expand[]=pin_code

Response Body

> Schemas: Schemas

Request Sample

The request body should be a JSON object containing the following fields:

```
curl -XGET '{{host}}/api/v1/developer/visitors?page_num=1&page_size=25'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure

# fetch users through keyword
curl -XGET '{{host}}/api/v1/developer/visitors?keyword=H'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure

# using the "expands" options
curl -XGET '{{host}}/api/v1/developer/visitors?expand[]=access_policy&expand[]=resource&expand[]=schedule&expand[]=nfc_card&expand[]=pin_code'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

4.5 Update Visitor

This API enables you to update a visitor.

- Request URL: `/api/v1/developer/visitors/:id`
- Permission Key: `edit:visitor`
- Method: `PUT`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Body

Parameter	Required	Type	Description	Example	How to Get It?
first_name	F	String	First name of the visitor.		
last_name	F	String	Last name of the visitor.		
remarks	F	String	Remarks about the visitor.		
mobile_phone	F	String	Mobile phone number of the visitor.		
email	F	String	Email address of the visitor.		
visitor_company	F	String	Company name of the visitor.		
start_time	F	Integer	Start time of the visit.	1688546460	
end_time	F	Integer	End time of the visit.	1688572799	
visit_reason	F	String	Visit reason: `enum reason {Interview,Business,Cooperation,Others}`	Interview	

> Assign Available Locations to Visitor

Parameter	Required	Type	Description	Example	How to Get It?
resources	F	Array[Object]	Assign available locations to the visitor. **Omit this parameter if it doesn't need to be updated.**		Get it from the API `/api/v1/developer/door_groups/topology`
resources[0].id	F	String	When resource type is `door_group`, it refers to the group ID of a building or a customized door group. When type is `door`, it refers to the ID of a door.	9bee6e0e-108d-4c52-9107-76f2c7dea4f1	
resources[0].type	F	String	Support both `door` and `door_group`.		

> Assigned Schedules To Visitor

Parameter	Required	Type	Description	Example
week_schedule	F	Object	The customizable scheduling strategy for each day from Sunday to Saturday. If not specified, it means access is allowed every day. **Omit this parameter if it doesn't need to be updated.**	
week_schedule.monday	F	Array[Object]	Specify the daily access time period from Sunday to Saturday.	
week_schedule.monday[0].start_time	F	String	Start time of the access time period.	00:00:00
week_schedule.monday[0].end_time	F	String	End time of the access time period.	23:59:59

Request Path

Parameter	Required	Type	Description	
id	T	String	Identity ID of the visitor.	

Response Body

> Schemas: [Schemas]
>
> **Note**: Status change is not supported.

Response Sample

```
{
    "code": "SUCCESS",
    "data": {
        "first_name": "H",
        "id": "8564ce90-76ba-445f-b78b-6cca39af0130",
        "last_name": "L",
        "nfc_cards": [],
        "pin_code": null,
        "resources": [
            {
                "id": "5c496423-6d25-4e4f-8cdf-95ad5135188a",
                "name": "Door-Group-1",
                "type": "door_group"
            },
            {
                "id": "d5573467-d6b3-4e8f-8e48-8a322b91664a",
                "name": "UNVR",
                "type": "door_group"
            },
            {
                "id": "e311ca94-172c-49fe-9c91-49bd8ecef845",
                "name": "visitor-1691646856144",
                "type": "door_group"
            }
        ],
        "schedule": {
            "id": "c03bf601-0b90-4341-bce4-6061931e9f4e",
            "is_default": false,
            "name": "visitor-1691646856097",
            "type": "access",
            "weekly": {
                "friday": [
                    {
                        "end_time": "17:00:59",
                        "start_time": "10:00:00"
                    }
                ],
                "monday": [
                    {
                        "end_time": "17:00:59",
                        "start_time": "10:00:00"
                    }
                ],
                "saturday": [],
                "sunday": [],
                "thursday": [
                    {
                        "end_time": "18:00:59",
                        "start_time": "11:00:00"
                    }
                ],
                "tuesday": [],
                "wednesday": [
                    {
                        "end_time": "17:00:59",
                        "start_time": "10:00:00"
                    }
                ]
            }
        },
        "schedule_id": "c03bf601-0b90-4341-bce4-6061931e9f4e",
        "status": "ACTIVE"
    },
    "msg": "success"
}
```

Request Sample

The request body should be a JSON object containing the following fields:

```
curl -XPUT '{{host}}/api/v1/developer/visitors/c81dfee6-5970-4938-bd30-40820e16ea01'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data-raw '
    {
        "first_name": "Test",
        "last_name": "L",
        "remarks": "",
        "mobile_phone": "",
        "email": "",
        "visitor_company": "",
        "start_time": 1688546460,
        "end_time": 1788572799,
        "visit_reason": "Interviemw",
        "week_schedule": {
            "sunday": [],
            "monday": [
                {
                    "start_time": "10:00:00",
                    "end_time": "17:00:59"
                }
            ],
            "tuesday": [],
            "wednesday": [
                {
                    "start_time": "10:00:00",
                    "end_time": "17:00:59"
                }
            ],
            "thursday": [
                {
                    "start_time": "11:00:00",
                    "end_time": "18:00:59"
                }
            ],
            "friday": [
                {
                    "start_time": "10:00:00",
                    "end_time": "17:00:59"
                }
            ],
            "saturday": []
        },
        "resources": [
            {
                "id": "6ff875d2-af87-470b-9cb5-774c6596afc8",
                "type": "door"
            },
            {
                "id": "5c496423-6d25-4e4f-8cdf-95ad5135188a",
                "type": "door_group"
            },
            {
                "id": "d5573467-d6b3-4e8f-8e48-8a322b91664a",
                "type": "door_group"
            }
        ]
    }'
    --insecure
```

4.6 Delete Visitor

This API enables you to delete a visitor.

- Request URL: `/api/v1/developer/visitors/:id`
- Permission Key: `edit:visitor`
- Method: `DELETE`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	
id	T	String	Identity ID of the visitor.	

Query Parameters

Parameter	Required	Type	Description	Example
is_force	F	Boolean	If is_force is passed, physically delete this visitor; otherwise, update to canceled status.	is_force=true

Response Sample

```
{
    "code": "SUCCESS",
    "data": null,
    "msg": "success"
}
```

Request Sample

The request body should be a JSON object containing the following fields:

```
curl -XDELETE '{{host}}/api/v1/developer/visitors/c81dfee6-5970-4938-bd30-40820e16ea01?is_force=true'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

4.7 Assign NFC Card To Visitor

- Request URL: `/api/v1/developer/visitors/:id/nfc_cards`
- Permission Key: `edit:visitor`
- Method: `PUT`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	How to Get It?
id	T	String	Identity ID of the visitor.	Get it from the API `/api/v1/developer/visitors`

Request Body

Parameter	Required	Type	Description	How to Get It?
token	T	String	Token of the NFC card.	Get it from the API `/api/v1/developer/nfc_cards/sessions/{session_id}`
force_add	F	Boolean	Determine whether to overwrite an NFC card that has already been assigned.	true or false

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl -XPUT '{{host}}/api/v1/developer/visitors/60b5c15e-9aff-4fc8-9547-d21d2e39c1ff/nfc_cards
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data-raw '{
        "token": "d27822fc682b478dc637c6db01813e465174df6e54ca515d8427db623cfda1d0",
        "force_add": true
    }'
    --insecure
```

Response Sample

```
{"code":"SUCCESS","msg":"success"}
```

4.8 Unassign NFC Card From Visitor

- Request URL: `/api/v1/developer/visitors/:id/nfc_cards/delete`
- Permission Key: `edit:visitor`
- Method: `PUT`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	How to Get It?
id	T	String	Identity ID of the visitor.	Get it from the API `/api/v1/developer/visitors`

Request Body

Parameter	Required	Type	Description	How to Get It?
token	T	String	Token of the NFC card.	Get it from the API `/api/v1/developer/visitors`

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl -XPUT '{{host}}/api/v1/developer/visitors/60b5c15e-9aff-4fc8-9547-d21d2e39c1ff/nfc_cards/delete
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    -d '{
        "token": "d27822fc682b478dc637c6db01813e465174df6e54ca515d8427db623cfda1d0"
    }'
    --insecure
```

Response Sample

```
{"code":"SUCCESS","msg":"success"}
```

4.9 Assign PIN Code To Visitor

- Request URL: `/api/v1/developer/visitors/:id/pin_codes`
- Permission Key: `edit:visitor`
- Method: `PUT`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	How to Get It?
id	T	String	Identity ID of the visitor.	Get it from the API `/api/v1/developer/visitors`

Request Body

Parameter	Required	Type	Description	How to Get It?
pin_code	T	String	Generate a PIN code for the visitor to unlock doors.	Get it from the API `/api/v1/developer/pin_codes`

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl -XPUT '{{host}}/api/v1/developer/visitors/17d2f099-99df-429b-becb-1399a6937e5a/pin_codes
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data-raw '{
        "pin_code": "57301208"
    }'
    --insecure
```

Response Sample

```
{"code":"SUCCESS","msg":"success"}
```

4.10 Unassign PIN Code From Visitor

- Request URL: `/api/v1/developer/visitors/:id/pin_codes`
- Permission Key: `edit:visitor`
- Method: `DELETE`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	How to Get It?
id	T	String	Identity ID of the visitor.	Get it from the API `/api/v1/developer/visitors`

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl -XDELETE '{{host}}/api/v1/developer/visitors/17d2f099-99df-429b-becb-1399a6937e5a/pin_codes
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure

```

Response Sample

```
{"code":"SUCCESS","msg":"success"}
```

5. Access Policy

> The APIs here are designed for managing door access policies. These policies can be bound with access schedules, floors, and other door access resources.

5.1 Access Policy Schemas

Parameter	Type	Description
Id		Identity ID of the access policy.
name	String	Name of the access policy.
resources	Array[Object]	Specify the locations that can be accessed.
resources[].type	String	Include door and door_group resources. `enum type {door,door_group}`
resources[].id	String	When resource type is `door_group`, it refers to the group ID of a building or a customized door group. When type is `door`, it refers to the ID of a door.
schedule_id	String	Identity ID of the schedule.

5.2 Create Access Policy

This API allows you to create an access policy.

- Request URL: `/api/v1/developer/access_policies`
- Permission Key: `edit:policy`
- Method: `POST`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Body

Parameter	Required	Type	Description	How to Get It?	Example
name	T	String	Name of the access policy.		
resource	F	Array[Object]	Used to assign accessible locations to the access policy.	Get it from the API `/api/v1/developer/door_groups/topology;` `/api/v1/developer/door_groups`	
resources[].type	F	String	`enum type` `{door,door_group}`		
resources[].id	F	String	When resource type is `door_group`, it refers to the group ID of a building or a customized door group. When type is `door`, it refers to the ID of a door.		
schedule_id	T	String	Identity ID of the schedule. Assign additional schedules.	Get it from the API `/api/v1/developer/access_policies/schedules`	

Response Body

Parameter	Required	Type	Description	Related API	Purpose
id	T	String	Identity ID of the policy.	`/api/v1/developer/users/:user_id/access_policies`	Used to both assign an access policy to a user or unassign a policy from them.

> Schemas: Schemas

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl '{{host}}/api/v1/developer/access_policies'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'   --data-raw
    '{
        "name": "test",
        "resource": [
            {
                "id": "6ff875d2-af87-470b-9cb5-774c6596afc8",
                "type": "door"
            },
            {
                "id": "5c496423-6d25-4e4f-8cdf-95ad5135188a",
                "type": "door_group"
            },
             {
                "id": "d5573467-d6b3-4e8f-8e48-8a322b91664a",
                "type": "door_group"
            }
        ],
        "schedule_id": "4e108aeb-ec9a-4822-bf86-170ea986f934"
    }'
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": {
        "id": "bb5eb965-42dc-4206-9654-88a2d1c3aaa5",
        "name": "test13",
        "resources": [
            {
                "id": "6ff875d2-af87-470b-9cb5-774c6596afc8",
                "type": "door"
            },
            {
                "id": "5c496423-6d25-4e4f-8cdf-95ad5135188a",
                "type": "door_group"
            },
            {
                "id": "d5573467-d6b3-4e8f-8e48-8a322b91664a",
                "type": "door_group"
            }
        ],
        "schedule_id": "4e108aeb-ec9a-4822-bf86-170ea986f934"
    },
    "msg": "success"
}
```

5.3 Update Access Policy

This API allows you to update a policy.

- Request URL: `/api/v1/developer/access_policies/:id`
- Permission Key: `edit:policy`
- Method: `PUT`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	Example
Id	T	String	Identity ID of the access policy.	

Request Body

Parameter	Required	Type	Description	How to Get It?
name	F	String	Name of the access policy. **Omit this parameter if it doesn't need to be updated.**	
resource	F	Array[Object]	Used to assign accessible locations to the access policy. **Omit this parameter if it doesn't need to be updated.**	Get it from the API `/api/v1/developer/door_groups/topology;` `/api/v1/developer/door_groups`
resources[].type	F	String	`enum type {door,door_group}`	
resources[].id	F	String	When resource type is `door_group`, it refers to the group ID of a building or a customized door group. When type is `door`, it refers to the ID of a door.	
schedule_id	F	String	Identity ID of the schedule. Assign additional schedules. **Omit this parameter if it doesn't need to be updated.**	Get it from the API `/api/v1/developer/access_policies/schedules`

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl '{{host}}/api/v1/developer/access_policies/242c88e3-0524-42de-8447-45891c5df714'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'   --data-raw
    '{
        "name": "test",
        "resource": [
            {
                "id": "6ff875d2-af87-470b-9cb5-774c6596afc8",
                "type": "door"
            },
            {
                "id": "5c496423-6d25-4e4f-8cdf-95ad5135188a",
                "type": "door_group"
            },
             {
                "id": "d5573467-d6b3-4e8f-8e48-8a322b91664a",
                "type": "door_group"
            }
        ],
        "schedule_id": "4e108aeb-ec9a-4822-bf86-170ea986f934"
    }'
    --insecure
```

Response Body

Parameter	Required	Type	Description	Related api	Purpose
id	T	String	Identity ID of the policy.	`/api/v1/developer/users/:user_id/access_policies`	Used to both assign an access policy to a user or unassign a policy from them.

> Schemas: Schemas

5.4 Delete Access Policy

This API allows you to delete an access policy.

- Request URL: `/api/v1/developer/access_policies/:id`
- Permission Key: `edit:policy`
- Method: `DELETE`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Body

Parameter	Required	Type	Description
Id	T	String	Identity ID of the access policy.

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl -XDELETE '{{host}}/api/v1/developer/access_policies/460d0bcc-5d4f-4e7b-8a3c-8d4502765e11'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    --insecure
```

Response Sample

```
{"code":"SUCCESS","msg":"success","data":"success"}
```

5.5 Fetch Access Policy

This API allows you to fetch a policy details.

- Request URL: `/api/v1/developer/access_policies/:id`
- Permission Key: `view:policy`
- Method: `GET`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Body

Parameter	Required	Type	Description
Id	T	String	Identity ID of the access policy.

Response Body

Parameter	Required	Type	Description	Example	
Data	T	Object			

> Schemas: Schemas

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl '{{host}}/api/v1/developer/ccess_policy'
   -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
   -H 'accept: application/json'
   -H 'content-type: application/json'
   --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": {
        "id": "ed09985f-cf52-486e-bc33-377b6ed7bbf2",
        "name": "test11",
        "resources": [
            {
                "id": "6ff875d2-af87-470b-9cb5-774c6596afc8",
                "type": "door"
            },
            {
                "id": "5c496423-6d25-4e4f-8cdf-95ad5135188a",
                "type": "door_group"
            },
            {
                "id": "d5573467-d6b3-4e8f-8e48-8a322b91664a",
                "type": "door_group"
            }
        ],
        "schedule_id": "4e108aeb-ec9a-4822-bf86-170ea986f934"
    },
    "msg": "success"
}
```

5.6 Fetch All Access Policies

This API allows you to fetch all access policies.

- Request URL: `/api/v1/developer/access_policies`
- Permission Key: `view:policy`
- Method: `GET`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Response Body

Parameter	Required	Type	Description	Example	
Data	T	Array[Object]			

> Schemas: [Schemas]()

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl '{{host}}/api/v1/developer/access_policies'
   -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
   -H 'accept: application/json'
   -H 'content-type: application/json'
   --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": [
        {
            "id": "73f15cab-c725-4a76-a419-a4026d131e96",
            "name": "Default Admin Policy",
            "resources": [
                {
                    "id": "d5573467-d6b3-4e8f-8e48-8a322b91664a",
                    "type": "door_group"
                },
                {
                    "id": "5c496423-6d25-4e4f-8cdf-95ad5135188a",
                    "type": "door_group"
                }
            ],
            "schedule_id": "73facd6c-839e-4521-a4f4-c07e1d44e748"
        },
        {
            "id": "b96948a4-fed9-40a3-9c4a-e473822a3db7",
            "name": "Default UNVR Policy",
            "resources": [
                {
                    "id": "d5573467-d6b3-4e8f-8e48-8a322b91664a",
                    "type": "door_group"
                },
                {
                    "id": "6ff875d2-af87-470b-9cb5-774c6596afc8",
                    "type": "door"
                }
            ],
            "schedule_id": "58c0f89b-f35c-4d2c-af7b-8b8918df2c31"
        },
        {
            "id": "edbc80df-3698-49fd-8b53-f1867f104947",
            "name": "TEST",
            "resources": [
                {
                    "id": "d5573467-d6b3-4e8f-8e48-8a322b91664a",
                    "type": "door_group"
                },
                {
                    "id": "5c496423-6d25-4e4f-8cdf-95ad5135188a",
                    "type": "door_group"
                },
                {
                    "id": "6ff875d2-af87-470b-9cb5-774c6596afc8",
                    "type": "door"
                }
            ],
            "schedule_id": "73facd6c-839e-4521-a4f4-c07e1d44e748"
        }
    ],
    "msg": "success"
}
```

5.7 Holiday Group Schemas

> A holiday group refers to a collection of holidays.

Parameter	Type	Description
id	String	Identity ID of the holiday group.
name	String	Name of the holiday group.
is_default	Boolean	Indicate whether the holiday group is the system default.
description	String	Description of the holiday group.
holidays	Array[Object]	Show a list of the holidays within the holiday group.
holidays[].description	String	Description of the holiday.
holidays[].id	String	Identity ID of the holiday.
holidays[].name	String	Name of the holiday.
holidays[].repeat	Boolean	Indicate whether the holiday repeats annually.
holidays[].start_time	String	Start time of the holiday, provided in UTC format according to RFC3339.
holidays[].end_time	String	End time of the holiday, provided in UTC format according to RFC3339.

5.8 Create Holiday Group

This API allows you to create a holiday group.

- Request URL: `/api/v1/developer/access_policies/holiday_groups`
- Permission Key: `edit:policy`
- Method: `POST`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Body

Parameter	Required	Type	Description	Example
name	T	String	Name of the holiday group.	
description	F	String	Description of the holiday group.	
holidays	F	Array[Object]	Show a list of the holidays within the holiday group.	
holidays[].description	F	String	Description of the holiday.	
holidays[].name	F	String	Name of the holiday.	
holidays[].repeat	F	Boolean	Indicate whether the holiday repeats annually.	
holidays[].is_template	F	Boolean	Indicate whether the holiday is created using a holiday group template.	
holidays[].start_time	F	String	Start time of the holiday, provided in UTC format according to RFC3339.	2023-08-25T00:00:00Z
holidays[].end_time	F	String	End time of the holiday, provided in UTC format according to RFC3339.	2023-08-26T00:00:00Z

Response Body

Parameter	Required	Type	Description	Related API	Purpose
id	T	String	Identity ID of the holiday group.	`/api/v1/developer/access_policies/schedules`	Used to add a holiday group to the schedule.

> Schemas: Schemas

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl '{{host}}/api/v1/developer/access_policies/holiday_groups'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'   --data-raw
    '{
        "name": "Holiday Group-169286791557142",
        "holidays": [
            {
                "name": "Holiday Name 1",
                "description": "",
                "repeat": false,
                "start_time": "2023-08-25T00:00:00Z",
                "end_time": "2023-08-26T00:00:00Z"
            },
            {
                "name": "Holiday Name 2",
                "description": "",
                "repeat": false,
                "start_time": "2023-08-26T00:00:00Z",
                "end_time": "2023-08-27T00:00:00Z"
            }
        ]
    }'
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": {
        "description": "",
        "holidays": [
            {
                "description": "",
                "end_time": "2023-08-26 00:00:00Z",
                "id": "8900533d-03be-4f84-832d-54ff59905759",
                "name": "Holiday Name 1",
                "repeat": false,
                "start_time": "2023-08-25 00:00:00Z"
            },
            {
                "name": "holiday-2023-08-26",
                "end_time": "2023-08-27 00:00:00Z",
                "id": "9fff81cc-d476-40c4-80f9-d510451ce2cd",
                "name": "Holiday Name 2",
                "repeat": false,
                "start_time": "2023-08-26 00:00:00Z"
            }
        ],
        "id": "7be7a7a0-818f-4f76-98c3-1c38957f4dca",
        "is_default": false,
        "name": "Holiday Group-169286791557142",
        "template_name": ""
    },
    "msg": "success"
}
```

5.9 Update Holiday Group

This API allows you to update a holiday group.

- Request URL: `/api/v1/developer/access_policies/holiday_groups/:id`
- Permission Key: `edit:policy`
- Method: `PUT`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	Example	
Id	T	String	Identity ID of the holiday group.		

Request Body

Parameter	Required	Type	Description	Example
name	T	String	Name of the holiday group.	
description	F	String	Description of the holiday group.	
holidays	F	Array[Object]	Show a list of the holidays within the holiday group. **Omit this parameter if it doesn't need to be updated.**	
holidays[].id	F	String	Identity ID of the holiday.**Omit this parameter if it doesn't need to be updated.**	Get it from the API `/api/v1/developer/access_policies/holiday_groups`
holidays[].description	F	String	Description of the holiday.	
holidays[].name	F	String	Name of the holiday.	
holidays[].repeat	F	Boolean	Indicate whether the holiday repeats annually.	
holidays[].start_time	F	String	Start time of the holiday, provided in UTC format according to RFC3339.	2023-08-25T00:00:00Z
holidays[].end_time	F	String	End time of the holiday, provided in UTC format according to RFC3339.	2023-08-26T00:00:00Z

Response Body

Parameter	Required	Type	Description	Related API	Purpose
id	T	String	Identity ID of the holiday group.	`/api/v1/developer/access_policies/schedules`	Used to add a holiday group to the schedule.

> Schemas: Schemas

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl -XPUT '{{host}}/api/v1/developer/access_policies/holiday_groups/7be7a7a0-818f-4f76-98c3-1c38957f4dca'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'   --data-raw
    '{
        "name": "Holiday Group-169286791557142",
        "holidays": [
            {
                "name": "Holiday Name 1",
                "description": "",
                "repeat": false,
                "start_time": "2023-08-25T00:00:00Z",
                "end_time": "2023-08-26T00:00:00Z"
            },# add a new holiday
            {
                "id":"d23a4226-765f-4967-b84f-6dfd53f33c89", # update an existing holiday
                "name": "Holiday Name 2",
                "description": "",
                "repeat": false,
                "start_time": "2023-08-26T00:00:00Z",
                "end_time": "2023-08-27T00:00:00Z"
            }
        ]
    }'
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": {
        "description": "",
        "holidays": [
            {
                "description": "",
                "end_time": "2023-08-26 00:00:00Z",
                "id": "8900533d-03be-4f84-832d-54ff59905759",
                "name": "Holiday Name 1",
                "repeat": false,
                "start_time": "2023-08-25 00:00:00Z"
            },
            {
                "description": "",
                "end_time": "2023-08-27 00:00:00Z",
                "id": "9fff81cc-d476-40c4-80f9-d510451ce2cd",
                "name": "Holiday Name 2",
                "repeat": false,
                "start_time": "2023-08-26 00:00:00Z"
            }
        ],
        "id": "7be7a7a0-818f-4f76-98c3-1c38957f4dca",
        "is_default": false,
        "name": "Holiday Group-169286791557142",
        "template_name": ""
    },
    "msg": "success"
}
```

5.10 Delete Holiday Group

This API allows you to delete a holiday group.

- Request URL: `/api/v1/developer/access_policies/holiday_groups/:id`
- Permission Key: `edit:policy`
- Method: `DELETE`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	Related API
id	T	String	Identity ID of the holiday group.	`/api/v1/developer/access_policies/holiday_groups`

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl -XDELETE '{{host}}/api/v1/developer/access_policies/holiday_groups/7be7a7a0-818f-4f76-98c3-1c38957f4dca'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": "success",
    "msg": "success"
}
```

5.11 Fetch Holiday Group

This API allows you to fetch a holiday group.

- Request URL: `/api/v1/developer/access_policies/holiday_groups/:id`
- Permission Key: `view:policy`
- Method: `GET`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Body

Parameter	Required	Type	Description
Id	T	String	Identity ID of the holiday group.

Response Body

Parameter	Required	Type	Description	Related API	Purpose
id	T	String	Identity ID of the holiday group.	`/api/v1/developer/access_policies/schedules`	Used to add a holiday group to the schedule.

> Schemas: Schemas

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl -XGET '{{host}}/api/v1/developer/access_policies/holiday_groups/7be7a7a0-818f-4f76-98c3-1c38957f4dca'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": {
        "description": "",
        "holidays": [
            {
                "description": "",
                "end_time": "2023-08-26 00:00:00Z",
                "id": "8900533d-03be-4f84-832d-54ff59905759",
                "name": "Holiday Name 1",
                "repeat": false,
                "start_time": "2023-08-25 00:00:00Z"
            },
            {
                "description": "",
                "end_time": "2023-08-27 00:00:00Z",
                "id": "9fff81cc-d476-40c4-80f9-d510451ce2cd",
                "name": "Holiday Name 2",
                "repeat": false,
                "start_time": "2023-08-26 00:00:00Z"
            }
        ],
        "id": "7be7a7a0-818f-4f76-98c3-1c38957f4dca",
        "is_default": false,
        "name": "Holiday Group-169286791557142",
        "template_name": ""
    },
    "msg": "success"
}
```

5.12 Fetch All Holiday Groups

This API allows you to fetch the list of all holiday groups.

- Request URL: `/api/v1/developer/access_policies/holiday_groups`
- Permission Key: `view:policy`

- Method: `GET`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Body

Parameter	Required	Type	Description
Id	T	String	Identity ID of the holiday group.

Response Body

Parameter	Required	Type	Description	Related API	Purpose
id	T	String	Identity ID of the holiday group.	`/api/v1/developer/access_policies/schedules`	Used to add a holiday group to the schedule.
name	T	String	Name of the holiday group.		
description	T	String	Description of the holiday group.		
count	T	Integer	Total number of holidays.		

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl -XGET '{{host}}/api/v1/developer/access_policies/holiday_groups'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": [
        {
            "count": 0,
            "description": "",
            "id": "8cc22b49-a7f4-49a6-9f04-044444992d6c",
            "is_default": true,
            "name": "No Holidays"
        },
        {
            "count": 2,
            "description": "",
            "id": "86c634da-7b2c-411c-a2c1-1495d089c719",
            "is_default": false,
            "name": "Holiday Group-1692867312225"
        }
    ],
    "msg": "success"
}
```

5.13 Schedule Schemas

> These schemas are utilized for creating time periods for daily visits from Sunday through Saturday. The primary purpose of these schemas is to facilitate the assignment of access policies to users.

Parameter	Type	Description
id	String	Identity ID of the schedule.
name	String	Name of the schedule.
is_default	Boolean	Indicate whether the schedule is the system default.
type	String	Contains the `access` type, which is assigned to a user along with an access policy.
weekly	Object	The customizable scheduling strategy for each day from Sunday to Saturday. If not specified, it means access is allowed every day.
weekly.monday	Array[Object]	Specify the daily access time period from Sunday to Saturday.
weekly.monday[].start_time	String	Start time of the access time period.
weekly.monday[].end_time	String	End time of the access time period.
holiday_schedule	Array[Object]	Specify the accessible period during holidays. **UniFi Access Requirement:** `1.20.11 or later`
holiday_schedule[0].start_time	String	Start time of the access time period.
holiday_schedule[0].end_time	String	End time of the access time period.
holiday_group_id	String	Identity ID of the holiday group.
holiday_group.id	String	Identity ID of the holiday group.
holiday_group.name	String	Name of the holiday group.
holiday_group.is_default	Boolean	Indicate whether the holiday group is the system default.
holiday_group.description	String	Description of the holiday group.
holiday_group.holidays	Array[Object]	Show a list of the holidays within the holiday group.
holiday_group.holidays[].description	String	Description of the holiday.
holiday_group.holidays[].id	String	Identity ID of the holiday.
holiday_group.holidays[].name	String	Name of the holiday.
holiday_group.holidays[].repeat	Boolean	Indicate whether the holiday repeats annually.
holiday_group.holidays[].start_time	String	Start time of the holiday, provided in UTC format according to RFC3339.
holiday_group.holidays[].end_time	String	End time of the holiday, provided in UTC format according to RFC3339.

5.14 Create Schedule

This API allows you to create a door access schedule.

- Request URL: `/api/v1/developer/access_policies/schedules`
- Permission Key: `edit:policy`

- Method: `POST`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Body

Parameter	Required	Type	Description	Example
name	T	String	The name of the schedule. This needs to be globally unique.	schedule-1789067565323
week_schedule	T	Object	The customizable scheduling strategy for each day from Sunday to Saturday. If not specified, it means access is allowed every day.	
week_schedule.monday	T	Array[Object]	Specify the daily access time period from Sunday to Saturday.	
week_schedule.monday[0].start_time	T	String	Start time of the access time period.	00:00:00
week_schedule.monday[0].end_time	T	String	End time of the access time period.	23:59:59
holiday_group_id	F	String	Identity ID of the holiday group. The default is `No holidays` system group.	75660081-431b-4dbe-9b98-e0257877118e
holiday_schedule	F	Array[Object]	Specify the accessible period during holidays.	
holiday_schedule[].start_time	F	String	Start time of the access time period.	03:15:00
holiday_schedule[].end_time	F	String	End time of the access time period.	11:45:59

Response Body

Parameter	Required	Type	Description	Related API	Purpose
id	T	String	Identity ID of the schedule.	`/api/v1/developer/access_policies`	Used to add a schedule to the access policy.

> Schemas: Schemas

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl '{{host}}/api/v1/developer/access_policies/schedules'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'   --data-raw
'{
    "name": "schedule-1688977094169",
    "week_schedule": {
        "sunday": [],
        "monday": [
            {
                "start_time": "10:00:00",
                "end_time": "17:00:59"
            }
        ],
        "tuesday": [
            {
                "start_time": "10:00:00",
                "end_time": "17:00:59"
            }
        ],
        "wednesday": [
            {
                "start_time": "10:00:00",
                "end_time": "17:00:59"
            }
        ],
        "thursday": [],
        "friday": [
            {
                "start_time": "10:00:00",
                "end_time": "17:00:59"
            }
        ],
        "saturday": []
    },
    "holiday_group_id": "75660081-431b-4dbe-9b98-e0257877118e",
    "holiday_schedule": [
        {
            "start_time": "03:15:00",
            "end_time": "11:45:59"
        },
        {
            "start_time": "15:00:00",
            "end_time": "19:00:59"
        }
    ]
}'
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": {
        "id": "1d31b648-b8ff-4bd1-b742-60dbd70592cd",
        "is_default": false,
        "name": "schedule-1688977094169",
        "type": "access",
        "weekly": {
            "friday": [
                {
                    "end_time": "17:00:59",
                    "start_time": "10:00:00"
                }
            ],
            "monday": [
                {
                    "end_time": "17:00:59",
                    "start_time": "10:00:00"
                }
            ],
            "saturday": [],
            "sunday": [],
            "thursday": [],
            "tuesday": [
                {
                    "end_time": "17:00:59",
                    "start_time": "10:00:00"
                }
            ],
            "wednesday": [
                {
                    "end_time": "17:00:59",
                    "start_time": "10:00:00"
                }
            ]
        },
        "holiday_group_id": "75660081-431b-4dbe-9b98-e0257877118e",
        "holiday_group": {
            "description": "",
            "holidays": [
                {
                    "description": "",
                    "end_time": "2023-08-26 00:00:00Z",
                    "id": "d51777c4-9559-45aa-8e23-434995d9d2a1",
                    "is_template": false,
                    "name": "Holiday Name 1",
                    "repeat": false,
                    "start_time": "2023-08-25 00:00:00Z"
                },
                {
                    "description": "",
                    "end_time": "2023-08-27 00:00:00Z",
                    "id": "d23a4226-765f-4967-b84f-6dfd53f33c89",
                    "is_template": false,
                    "name": "Holiday Name 2",
                    "repeat": false,
                    "start_time": "2023-08-26 00:00:00Z"
                }
            ],
            "id": "75660081-431b-4dbe-9b98-e0257877118e",
            "is_default": false,
            "name": "Holiday Group-1692867915571423",
            "template_name": ""
        },
        "holiday_schedule": [
            {
                "start_time": "03:15:00",
                "end_time": "11:45:59"
            },
            {
                "start_time": "15:00:00",
                "end_time": "19:00:59"
            }
        ]
    },
    "msg": "success"
}
```

5.15 Update Schedule

This API allows you to update a door access schedule.

- Request URL: `/api/v1/developer/access_policies/schedules/:id`
- Permission Key: `edit:policy`
- Method: `PUT`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	Example	
Id	T	String	Identity ID of the schedule.		

Request Body

Parameter	Required	Type	Description	Example
name	F	String	The name of the schedule. This needs to be globally unique. **Omit this parameter if it doesn't need to be updated.**	schedule-1789067565323
week_schedule	F	Object	The customizable scheduling strategy for each day from Sunday to Saturday. If not specified, it means access is allowed every day. **Omit this parameter if it doesn't need to be updated.**	
week_schedule.monday	F	Array[Object]	Specify the daily access time period from Sunday to Saturday.	
week_schedule.monday[0].start_time	F	String	Start time of the access time period.	00:00:00
week_schedule.monday[0].end_time	F	String	End time of the access time period.	23:59:59
holiday_group_id	F	String	Identity ID of the holiday group. The default is `No holidays` system group.	75660081-431b-4dbe-9b98-e0257877118e
holiday_schedule	F	Array[Object]	Specify the accessible period during holidays.	
holiday_schedule[].start_time	F	String	Start time of the access time period.	03:15:00
holiday_schedule[].end_time	F	String	End time of the access time period.	11:45:59

Response Body

Parameter	Required	Type	Description	Related API	Purpose
id	T	String	Identity ID of the schedule.	`/api/v1/developer/access_policies`	Used to add a schedule to the access policy.

> Schemas: Schemas

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl -XPUT '{{host}}/api/v1/developer/access_policies/schedules/1d31b648-b8ff-4bd1-b742-60dbd70592cd'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'   --data-raw
    '{
        "name": "schedule-1688977094169",
        "holiday_group_id": "75660081-431b-4dbe-9b98-e0257877118e",
        "week_schedule": {
            "sunday": [],
            "monday": [
                {
                    "start_time": "10:00:00",
                    "end_time": "17:00:59"
                }
            ],
            "tuesday": [
                {
                    "start_time": "10:00:00",
                    "end_time": "17:00:59"
                }
            ],
            "wednesday": [
                {
                    "start_time": "10:00:00",
                    "end_time": "17:00:59"
                }
            ],
            "thursday": [
                {
                    "start_time": "10:00:00",
                    "end_time": "17:01:59"
                }
            ],
            "friday": [
                {
                    "start_time": "10:00:00",
                    "end_time": "17:00:59"
                }
            ],
            "saturday": []
        },
        "holiday_schedule": [
            {
                "start_time": "03:15:00",
                "end_time": "11:45:59"
            }
        ]
    }'
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": {},
    "msg": "success"
}
```

5.16 Fetch Schedule

This API allows you to fetch a door access schedule.

- Request URL: `/api/v1/developer/access_policies/schedules/:id`
- Permission Key: `view:policy`
- Method: `GET`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	Example
Id	T	String	Identity ID of the schedule.	

Response Body

Parameter	Required	Type	Description	Example
name	T	String	Name of the schedule.	
week_schedule	T	Object	The customizable scheduling strategy for each day from Sunday to Saturday. If not specified, it means access is allowed every day.	
holiday_group	F	Object	Show the assigned holiday group.	
holiday_schedule	F	Array[Object]	Show the accessible period during holidays.	

> Schemas: Schemas

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl --location '{{host}}/api/v1/developer/access_policies/schedules/908079e7-e26b-4951-9073-d775446d3584' --header 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'

```

Response Sample

```
{
    "code": "SUCCESS",
    "data": {
        "id": "1d31b648-b8ff-4bd1-b742-60dbd70592cd",
        "is_default": false,
        "name": "schedule-1688977094169",
        "type": "access",
        "weekly": {
            "friday": [
                {
                    "end_time": "17:00:59",
                    "start_time": "10:00:00"
                }
            ],
            "monday": [
                {
                    "end_time": "17:00:59",
                    "start_time": "10:00:00"
                }
            ],
            "saturday": [],
            "sunday": [],
            "thursday": [
                {
                    "end_time": "17:01:59",
                    "start_time": "10:00:00"
                }
            ],
            "tuesday": [
                {
                    "end_time": "17:00:59",
                    "start_time": "10:00:00"
                }
            ],
            "wednesday": [
                {
                    "end_time": "17:00:59",
                    "start_time": "10:00:00"
                }
            ]
        },
        "holiday_group_id": "75660081-431b-4dbe-9b98-e0257877118e",
        "holiday_group": {
            "description": "",
            "holidays": [
                {
                    "description": "",
                    "end_time": "2023-08-26 00:00:00Z",
                    "id": "d51777c4-9559-45aa-8e23-434995d9d2a1",
                    "is_template": false,
                    "name": "Holiday Name 1",
                    "repeat": false,
                    "start_time": "2023-08-25 00:00:00Z"
                },
                {
                    "description": "",
                    "end_time": "2023-08-27 00:00:00Z",
                    "id": "d23a4226-765f-4967-b84f-6dfd53f33c89",
                    "is_template": false,
                    "name": "Holiday Name 2",
                    "repeat": false,
                    "start_time": "2023-08-26 00:00:00Z"
                }
            ],
            "id": "75660081-431b-4dbe-9b98-e0257877118e",
            "is_default": false,
            "name": "Holiday Group-16928679155714",
            "template_name": ""
        },
        "holiday_schedule": [
            {
                "end_time": "11:45:59",
                "start_time": "09:15:00"
            }
        ]
    },
    "msg": "success"
}
```

5.17 Fetch All Schedules

This API allows you to fetch all door access schedules.

- Request URL: `/api/v1/developer/access_policies/schedules`
- Permission Key: `view:policy`
- Method: `GET`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Response Body

Parameter	Required	Type	Description	Example
Data	T	Array[Object]		

> Schemas: Schemas

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl --location '{{host}}/api/v1/developer/access_policies/schedules'
   -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
   --insecure

```

Response Sample

```
{
    "code": "SUCCESS",
    "data": [
        {
            "id": "73facd6c-839e-4521-a4f4-c07e1d44e748",
            "holiday_group_id": "75660081-431b-4dbe-9b98-e0257877118e",
            "is_default": true,
            "name": "Always Access",
            "status": 1,
            "type": "access"
        },
        {
            "id": "58c0f89b-f35c-4d2c-af7b-8b8918df2c31",
            "holiday_group_id": "75660081-431b-4dbe-9b98-e0257877118e",
            "is_default": false,
            "name": "UNVR Schedule",
            "status": 1,
            "type": "access"
        }
    ],
    "msg": "success"
}
```

5.18 Delete Schedule

This API allows you to delete a door access schedule.

- Request URL: `/api/v1/developer/access_policies/schedules/:id`
- Permission Key: `edit:policy`
- Method: `DELETE`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	Example	
Id	T	String	Identity ID of the schedule.		

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
 curl -XDELETE '{{host}}/api/v1/developer/access_policies/schedules/f5355214-3a45-4e0b-9245-12df7075df37'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

Response Sample

```
{"code":"SUCCESS","msg":"success","data":"success"}
```

6. Credential

> The APIs here are designed for managing PIN codes, NFC cards, and other related credentials.

6.1 Generate PIN Code

This API enables you to generate a PIN code. A PIN code can be assigned to a visitor or user, and once assigned, they can use it to unlock doors.

- Request URL: `/api/v1/developer/credentials/pin_codes`
- Permission Key: `view:credential`
- Method: `POST`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Response Body

Parameter	Required	Type	Description	Related API	Purpose

data	T	String	PIN code	`/api/v1/developer/users;`
				`/api/v1/developer/visitors`
					Assign the PIN code to the created user or visitor.

Request Sample: Shell/cURL

The request body should be a JSON object containing the following fields:

```
curl --location --request POST 'https://{{host}}/api/v1/developer/credentials/pin_codes'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'Content-Type: application/json' \
    --data ''
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": "67203419",
    "msg": "success"
}
```

6.2 Enroll NFC Card

Wake up a UA reader and create a session to enroll an NFC card.

- Request URL: `/api/v1/developer/credentials/nfc_cards/sessions`
- Permission Key: `edit:credential`
- Method: `POST`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Body

Parameter	Required	Type	Description	How to Get It?
device_id	T	String	Identity ID of the device.	Get it from the API `/api/v1/developer/devices`.
reset_ua_card	F	Boolean		This option allows you to reset an NFC card already enrolled at another site.

Response Body

Parameter	Required	Type	Description	Related API	Purpose
session_id	T	String	The session for enrolling an NFC card.	**#6.3** `/api/v1/developer/credentials/nfc_cards/sessions/{session_id}`	NFC card polling result.

Request Sample

```
curl '{{host}}/api/v1/developer/credentials/nfc_cards/sessions'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data-raw '{"device_id": "0418d6a2bb7a", "reset_ua_card": false}'
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "msg": "success",
    "data": {
        "session_id": "e8a97c52-6676-4c48-8589-bd518afc4094"
    }
}
```

6.3 Fetch NFC Card Enrollment Status

This API enables you to poll a UA reader to fetch the NFC card enrollment status and the generated card tokens.

- Request URL: `/api/v1/developer/credentials/nfc_cards/sessions/:id`
- Permission Key: `edit:credential`
- Method: `GET`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Body

Parameter	Required	Type	Description	Related API	How to Get It?
id	T	String	The id of the session **#6.2**.	`/api/v1/developer/users;` `/api/v1/developer/visitors`	Get session id from the API **#6.2**

Response Body

Parameter	Required	Type	Description	Related API	Purpose
token	T	String	Unique NFC card token.	`/api/v1/developer/users;` `/api/v1/developer/visitors`	The generated card token is used to bind to a user or visitor.
card_id	T	String	Display ID of the NFC card.		

Request Sample

```
GET /api/v1/developer/credentials/nfc_cards/sessions/e8a97c52-6676-4c48-8589-bd518afc4094
```

Response Sample

```
{
    "code": "SUCCESS",
    "msg": "success",
    "data": {
        "card_id": "014A3151",
        "token": "821f90b262e90c5c0fbcddf3d6d2f3b94cc015d6e8104ab4fb96e4c8b8e90cb7"
    }
}
```

6.4 Remove a Session Created for NFC Card Enrollment

This API enables you to remove a session created for enrolling an NFC card.

- Request URL: `/api/v1/developer/credentials/nfc_cards/sessions/:id`
- Permission Key: `edit:credential`
- Method: `DELETE`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Body

Parameter	Required	Type	Description	Related API	How to Get It?

id	T	String	The id of the session **#6.2**.	`/api/v1/developer/users;`
				`/api/v1/developer/visitors`
					Get session id from the API **#6.2**

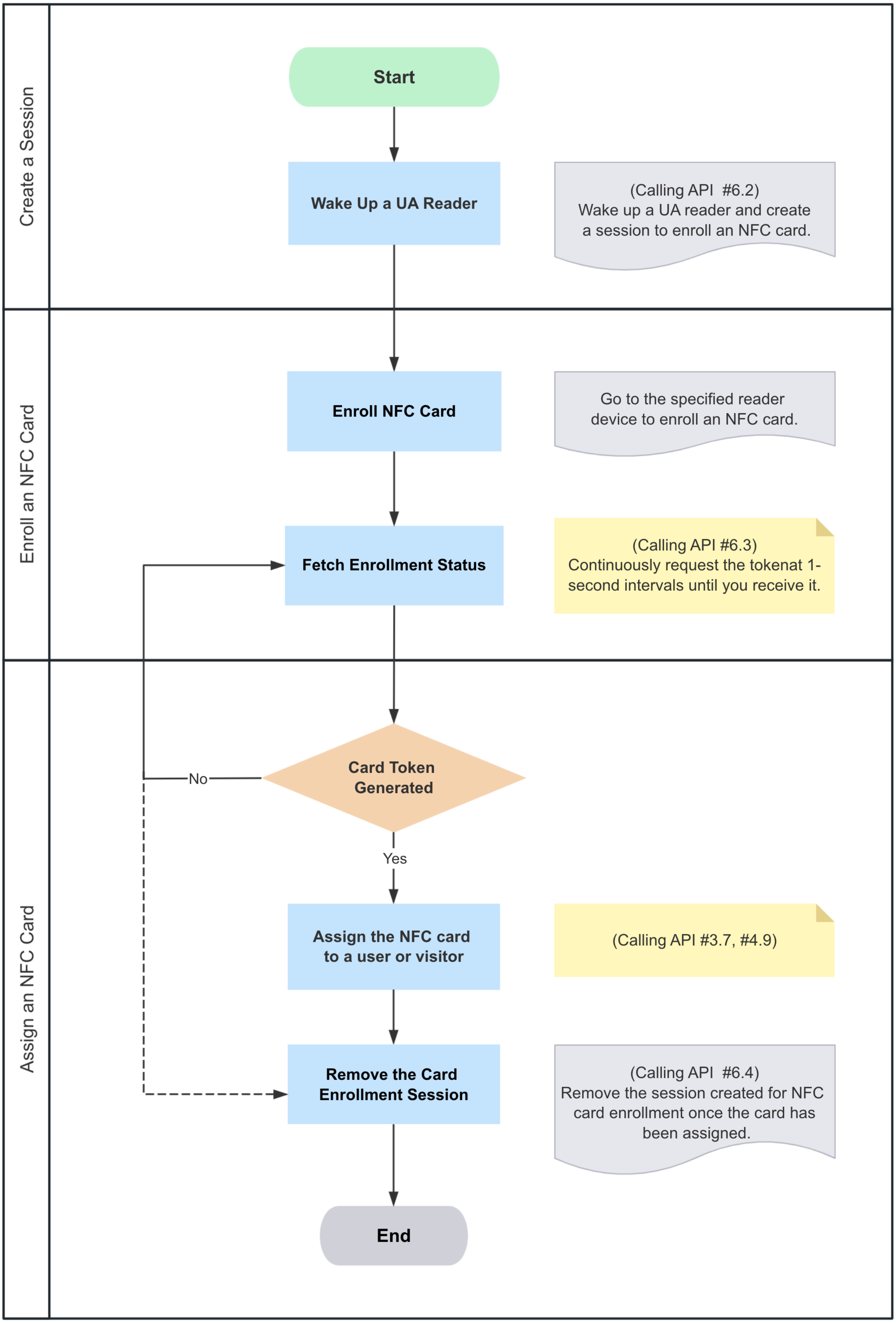
Request Sample

```
DELETE /api/v1/developer/credentials/nfc_cards/sessions/e8a97c52-6676-4c48-8589-bd518afc4094
```

Response Sample

```
{"code":"SUCCESS","msg":"success","data":"success"}
```

6.5 Flowchart for NFC Card Enrollment


Create a Session
Start
Wake Up a UA Reader
(Calling API #6.2)
Wake up a UA reader and create a session to enroll an NFC card.
Enroll an NFC Card
Enroll NFC Card
Go to the specified reader device to enroll an NFC card.
Fetch Enrollment Status
(Calling API #6.3)
Continuously request the tokenat 1-second intervals until you receive it.
Assign an NFC Card
Card Token Generated
No
Yes
Assign the NFC card to a user or visitor
(Calling API #3.7, #4.9)
Remove the Card Enrollment Session
(Calling API #6.4)
Remove the session created for NFC card enrollment once the card has been assigned.
End

6.6 NFC Card Schemas

Parameter	Type	Description
token	String	Identity token of the NFC card.
display_id	String	Display ID of the NFC card.
status	String	Status of the NFC card. `enum status {assigned,pending,disable,deleted,loss}`
alias	String	Preferred name of the NFC card.
card_type	String	Type of the NFC card.
user_id	String	Owner ID of the NFC card.
user_type	String	Type of the owner. `enum user_type {USER,VISITOR}`
user	Object	Owner of the NFC card.
user.id	String	Identity ID of the user.
user.first_name	String	First name of the user.
user.last_name	String	Last name of the user.
user.name	String	Full name of the user.

6.7 Fetch NFC Card

This API allows you to fetch NFC card details.

- Request URL: `/api/v1/developer/credentials/nfc_cards/tokens/:token`
- Permission Key: `view:credential`
- Method: `GET`
- UniFi Access Requirement: `Version 1.22.16 or later`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	Example	How to Get It?
token	T	String	Token of the NFC card.	821f90b262e90c5c0fbcddf3d6d2f3b94cc015d6e8104ab4fb96e4c8b8e90cb7	Get it from the API **#6.3 #6.8**

Response Body

Schemas: NFC Card Schemas

Response Sample

```
{
    "code": "SUCCESS",
    "data": {
        "alias": "",
        "card_type": "ua_card",
        "display_id": "100005",
        "note": "100005",
        "status": "assigned",
        "token": "f77d69b08eaf5eb5d647ac1a0a73580f1b27494b345f40f54fa022a8741fa15c",
        "user": {
            "avatar": "",
            "first_name": "H",
            "id": "e0051e08-c4d5-43db-87c8-a9b19cb66513",
            "last_name": "L",
            "name": "H L"
        },
        "user_id": "e0051e08-c4d5-43db-87c8-a9b19cb66513",
        "user_type": "USER"
    },
    "msg": "success"
}
```

Request Sample

The request body should be a JSON object containing the following fields:

```
curl -XGET '{{host}}/api/v1/developer/credentials/nfc_cards/tokens/f77d69b08eaf5eb5d647ac1a0a73580f1b27494b345f40f54fa022a8741fa15c'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

6.8 Fetch All NFC Cards

This API allows you to fetch all NFC cards.

- Request URL: `/api/v1/developer/credentials/nfc_cards/tokens`

- Permission Key: `view:credential`
- Method: `GET`
- UniFi Access Requirement: `Version 1.22.16 or later`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Query Parameters

Parameter	Required	Type	Description	Example
page_num	F	String	Current page number in the pagination.	1
page_size	F	String	Number of users per page.	25

Response Body

Schemas: NFC Card Schemas

Response Sample

```
{
    "code": "SUCCESS",
    "data": [
        {
            "alias": "",
            "card_type": "ua_card",
            "display_id": "100004",
            "note": "100004",
            "status": "assigned",
            "token": "9e24cdfafebf63e58fd02c5f67732b478948e5793d31124239597d9a86b30dc4",
            "user": {
                "avatar": "",
                "first_name": "H",
                "id": "e0051e08-c4d5-43db-87c8-a9b19cb66513",
                "last_name": "L",
                "name": "H L"
            },
            "user_id": "e0051e08-c4d5-43db-87c8-a9b19cb66513",
            "user_type": "USER"
        },
        {
            "alias": "F77D69B03",
            "card_type": "ua_card",
            "display_id": "100005",
            "note": "100005",
            "status": "assigned",
            "token": "f77d69b08eaf5eb5d647ac1a0a73580f1b27494b345f40f54fa022a8741fa15c",
            "user": {
                "avatar": "",
                "first_name": "H2",
                "id": "34dc90a7-409f-4bf8-a5a8-1c59535a21b9",
                "last_name": "L",
                "name": "H2 L"
            },
            "user_id": "34dc90a7-409f-4bf8-a5a8-1c59535a21b9",
            "user_type": "VISITOR"
        }
    ],
    "msg": "succ",
    "pagination": {
        "page_num": 1,
        "page_size": 2,
        "total": 2
    }
}
```

Request Sample

The request body should be a JSON object containing the following fields:

```
curl -XGET '{{host}}/api/v1/developer/credentials/nfc_cards/tokens?page_num=1&page_size=12'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

6.9 Delete NFC Card

This API allows you to delete an NFC card.

- Request URL: `/api/v1/developer/credentials/nfc_cards/tokens/:token`
- Permission Key: `edit:credential`
- Method: `DELETE`
- UniFi Access Requirement: `Version 1.22.16 or later`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	Example	How to Get It?
token	T	String	Token of the NFC card.	821f90b262e90c5c0fbcddf3d6d2f3b94cc015d6e8104ab4fb96e4c8b8e90cb7	Get it from the API **#6.3 #6.8**

Response Sample

```
{
    "code": "SUCCESS",
    "data": "success",
    "msg": "success"
}
```

Request Sample

The request body should be a JSON object containing the following fields:

```
curl -XDELETE '{{host}}/api/v1/developer/credentials/nfc_cards/tokens/f77d69b08eaf5eb5d647ac1a0a73580f1b27494b345f40f54fa022a8741fa15c'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

7. Space

> The APIs here are designed for managing spaces, including doors, door groups, and floors.

7.1 Fetch Door Group Topology

Fetch all current floor and door resources for access policy and visitor assignment purposes.

- Request URL: `/api/v1/developer/door_groups/topology`
- Permission Key: `view:space`
- Method: `GET`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Response Body

Parameter	Required	Type	Description	Purpose	Related API
id	F	String	Identity ID of the door group.	Used when creating an access policy.	
type	T	String	`enum group_type {building,access}` The `building` type contains all the doors; the `access` type represents all the customized door groups.		`access: /api/v1/developer/door_groups`
resource_topologies	T	Array[Object]	Contain information about the floor and all its associated doors.	Bind policies or specify available locations for visitors to access.	`/api/v1/developer/access_policies` `/api/v1/developer/visitors`
resource_topologies[].id	T	String	Identity ID of the floor.		
resource_topologies[].type	T	String	Type of the floor.		
resource_topologies[].name	T	String	Name of the floor.		
resource_topologies[].resources	T	Array[Object]	Contain all the doors on the floor.		
resource_topologies[].is_bind_hub	F	Boolean	Indicate whether the door has bound to a hub device. It can only be used for remote opening if it's bound.		
resource_topologies[].resources.id	T	String	Identity ID of the door.		
resource_topologies[].resources.name	T	String	Name of the door.		
resource_topologies[].resources.type	T	String	Type of the door.		

Request Sample

The request body should be a JSON object containing the following fields:

```
curl -X GET '{{host}}/api/v1/developer/door_groups/topology'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": [
        {
            "id": "d5573467-d6b3-4e8f-8e48-8a322b91664a",
            "name": "All Doors",
            "resource_topologies": [
                {
                    "id": "9bee6e0e-108d-4c52-9107-76f2c7dea4f1",
                    "name": "Main Floor",
                    "resources": [
                        {
                            "id": "6ff875d2-af87-470b-9cb5-774c6596afc8",
                            "name": "Door 3855",
                            "type": "door",
                            "is_bind_hub": true
                        }
                    ],
                    "type": "floor"
                }
            ],
            "type": "building"
        },
        {
            "id": "5c496423-6d25-4e4f-8cdf-95ad5135188a",
            "name": "customized group",
            "resource_topologies": [
                {
                    "id": "9bee6e0e-108d-4c52-9107-76f2c7dea4f1",
                    "name": "Main Floor",
                    "resources": [
                        {
                            "id": "6ff875d2-af87-470b-9cb5-774c6596afc8",
                            "name": "Door 3855",
                            "type": "door",
                            "is_bind_hub": true
                        }
                    ],
                    "type": "floor"
                }
            ],
            "type": "access"
        }
    ],
    "msg": "success"
}
```

7.2 Create Door Group

This API allows you to create a door group.

- Request URL: `/api/v1/developer/door_groups`
- Permission Key: `edit:space`

- Method: `POST`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Body

Parameter	Required	Type	Description	Example	How to Get It?
group_name	T	String	Name of the door group. This needs to be globally unique.		
resources	T	Array[String]	Collection of door ID.		`/api/v1/developer/door_groups/topology`

Response Body

Parameter	Required	Type	Description	Purpose	Related API

id	T	String	Identity ID of the door group.	Used to assign access group to visitor and access policy.	`/api/v1/developer/visitors;`
					`/api/v1/developer/access_policies;`

name	T	String	Name of the door group.		
resources	T	String	All doors contained under the group.		
resources[].id	T	String	Identity ID of the door.		
resources[].type	T	String	Type of the door.		

Request Sample

The request body should be a JSON object containing the following fields:

```
curl '{{host}}/api/v1/developer/door_groups'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data-raw '{
        "group_name": "Test",
        "resources": [
            "6ff875d2-af87-470b-9cb5-774c6596afc8"
        ]
    }'
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": {
        "id": "0140fa3d-8973-4305-a0ce-5306ae277878",
        "name": "Customized Door Group",
        "resources": [
            {
                "id": "6ff875d2-af87-470b-9cb5-774c6596afc8",
                "type": "door"
            }
        ],
        "type": "access"
    },
    "msg": "success"
}
```

7.3 Fetch Door Group

This API allows you to fetch door group details.

- Request URL: `/api/v1/developer/door_groups/:id`
- Permission Key: `view:space`
- Method: `GET`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description
Id	T	String	Identity ID of the door group.

Response Body

Parameter	Required	Type	Description	Purpose	Related API

id	T	String	Identity ID of the door group.	Used to assign access group to visitor and access policy.	`/api/v1/developer/visitors;`
					`/api/v1/developer/access_policies;`

name	T	String	Name of the door group.		
type	t	String	Include door access and building resources. `enum type {access,building}` The `building` type stands for all doors, which is a special group obtained from the [topology API](). The `access` type represents all custom door groups.		
resources	T	String	All doors contained under the group.		
resources[].id	T	String	Identity ID of the door.		
resources[].type	T	String	The access type represents all custom door group types.		
resources[].name	T	String	Name of the door.		

Request Sample

The request body should be a JSON object containing the following fields:

```
curl '{{host}}/api/v1/developer/door_groups/d5573467-d6b3-4e8f-8e48-8a322b91664a'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

Response Sample

```
# Group type is building
{
    "code": "SUCCESS",
    "data": {
        "id": "d5573467-d6b3-4e8f-8e48-8a322b91664a",
        "name": "All Doors",
        "resources": [
            {
                "id": "6ff875d2-af87-470b-9cb5-774c6596afc8",
                "name": "Door 3855",
                "type": "door"
            },
            {
                "id": "7cc1823f-9cdb-447b-b01b-4cb2abc661c0",
                "name": "A2 Door",
                "type": "door"
            },
            {
                "id": "ececa68e-239f-4b82-adc4-0c9ce70c60ff",
                "name": "A3",
                "type": "door"
            }
        ],
        "type": "building"
    },
    "msg": "success"
}

# Customized groups
{
    "code": "SUCCESS",
    "data": {
        "id": "1be0c995-0347-4cb2-93b3-66a9624af568",
        "name": "Door Group 01",
        "resources": [
            {
                "id": "6ff875d2-af87-470b-9cb5-774c6596afc8",
                "type": "door",
                "name": "Door 385"
            }
        ],
        "type": "access"
    },
    "msg": "success"
}
```

7.4 Update Door Group

This API allows you to update door group details.

- Request URL: `/api/v1/developer/door_groups/:id`
- Permission Key: `edit:space`
- Method: `PUT`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description
id	T	String	Identity ID of the door group.

Request Body

Parameter	Required	Type	Description	Example	How to Get It?
group_name	F	String	Name of door group. **Omit this parameter if it doesn't need to be updated.**		
resources	F	Array[String]	Collection of door identifier ID. **Omit this parameter if it doesn't need to be updated.**		`/api/v1/developer/door_groups/topology`

Response Body

Parameter	Required	Type	Description	Purpose	Related API

id	T	String	Identity ID of the door group.	Used to assign access group to visitor and access policy.	`/api/v1/developer/visitors;`
					`/api/v1/developer/access_policies;`

name	T	String	Name of the door group.		
resources	T	String	All doors contained under the group.		
resources[].id	T	String	Identity ID of the door.		
resources[].type	T	String	Type of the door.		

Request Sample

The request body should be a JSON object containing the following fields:

```
curl -X PUT'{{host}}/api/v1/developer/door_groups/0140fa3d-8973-4305-a0ce-5306ae277878'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data-raw '{
        "resources": [
            "6ff875d2-af87-470b-9cb5-774c6596afc8",
            "5a2c3d4e-1f6b-4c8d-9e0f-2a3b4c5d6e7f",
            "2p3q4r5s-6t7u-8v9w-x0y1-z2a3b4c5d6e"
        ]
    }'
    --insecure

# Delete all door resources
```

```
 curl -X PUT'{{host}}/api/v1/developer/door_groups/0140fa3d-8973-4305-a0ce-5306ae277878'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data-raw '{
        "resources": []
    }'
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": {
        "id": "0140fa3d-8973-4305-a0ce-5306ae277878",
        "name": "test",
        "resources": [
            {
                "id": "6ff875d2-af87-470b-9cb5-774c6596afc8",
                "type": "door"
            }
        ],
        "type": "access"
    },
    "msg": "success"
}
```

7.5 Fetch All Door Groups

This API allows you to fetch the list of all door groups.

- Request URL: `/api/v1/developer/door_groups`
- Permission Key: `view:space`
- Method: `GET`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Response Body

Parameter	Required	Type	Description	Purpose	Related API

id	T	String	Identity ID of the door group.	Used to create a door groups and to open doors remotely, if a device is bound.	`/api/v1/developer/door_groups;`
					`/api/v1/developer/doors/:id/remote_unlock;`

name	T	String	Name of the door group.		
type	t	String	Include door access and building resources. `enum type {access,building}` The `building` type represents all doors, which is a special group obtained from the topology API. But the list does not contain the group type `building`. The `access` type represents all custom door groups.		
resources	T	String	All doors contained under the group.		
resources[].id	T	String	Identity ID of the door.		
resources[].type	T	String	Type of the door.		

Response Sample

The request body should be a JSON object containing the following fields:

```
curl '{{host}}/api/v1/developer/door_groups'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": [
        {
            "id": "5c496423-6d25-4e4f-8cdf-95ad5135188a",
            "name": "Test",
            "resources": [
                {
                    "id": "6ff875d2-af87-470b-9cb5-774c6596afc8",
                    "type": "door"
                }
            ],
            "type": "access"
        },
        {
            "id": "1907cc46-0a73-4077-94c1-95b625bdb0f8",
            "name": "Test2",
            "resources": [
                {
                    "id": "6ff875d2-af87-470b-9cb5-774c6596afc8",
                    "type": "door"
                }
            ],
            "type": "access"
        }
    ],
    "msg": "success"
}
```

7.6 Delete Door Group

This API allows you to delete a door group.

- Request URL: `/api/v1/developer/door_groups/:id`
- Permission Key: `edit:space`
- Method: `DELETE`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description
id	T	String	Identity ID of the door group.

Request Sample

The request body should be a JSON object containing the following fields:

```
curl -X DELETE'{{host}}/api/v1/developer/door_groups/0140fa3d-8973-4305-a0ce-5306ae277878'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": "success",
    "msg": "success"
}
```

7.7 Fetch Door

This API allows you to fetch door details.

- Request URL: `/api/v1/developer/doors/:id`
- Permission Key: `view:space`
- Method: `GET`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description
id	T	String	Identity ID of the door.

Response Body

Parameter	Required	Type	Description	Purpose	Related API

id	T	String	Identity ID of the door group.	1. Used to create a door group. 2. Used to unlock a door remotely, if the door is bound to a hub device.	`/api/v1/developer/door_groups;`
					`/api/v1/developer/doors/:id/remote_unlock;`

name	T	String	Name of the door.		
full_name	T	String	Full name of the door.		
floor_id	T	String	Identity ID of the floor.		
type	T	String	Type of the door.		
is_bind_hub	T	String	Indicate whether the door has bound to a hub device. It can only be used for remote opening if it's bound.		
door_lock_relay_status	T	String	Door lock status. `enum door_lock_relay_status {lock,unlock}`		
door_position_status	T	String	DPS: Door position status, including both `open` and `close`. A null value means that no device is connected.		

Request Sample

The request body should be a JSON object containing the following fields:

```
curl -X GET '{{host}}/api/v1/developer/doors/0ed545f8-2fcd-4839-9021-b39e707f6aa9'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": {
        "door_lock_relay_status": "lock",
        "door_position_status": "",
        "floor_id": "3275af8d-3fa7-4902-a11b-011e41c8464a",
        "full_name": "UNVR - 1F - Main Door",
        "id": "0ed545f8-2fcd-4839-9021-b39e707f6aa9",
        "is_bind_hub": true,
        "name": "Main Door",
        "type": "door"
    },
    "msg": "success"
}
```

7.8 Fetch All Doors

This API allows you to fetch the list of all doors.

- Request URL: `/api/v1/developer/doors`
- Permission Key: `view:space`
- Method: `GET`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Response Body

Parameter	Required	Type	Description	Purpose	Related API

id	T	String	Identity ID of the door group.	1. Used to create a door group. 2. Used to unlock a door remotely, if the door is bound to a hub device.	`/api/v1/developer/door_groups;`
					`/api/v1/developer/doors/:id/remote_unlock;`

name	T	String	Name of the door.		
full_name	T	String	Full name of the door.		
floor_id	T	String	Identity ID of the floor.		
type	T	String	Type of the door.		
is_bind_hub	T	String	Indicate whether the door has bound to a hub device. It can only be used for remote opening if it's bound.		
door_lock_relay_status	T	String	Door lock status. `enum door_lock_relay_status {lock,unlock}`		
door_position_status	T	String	DPS: Door position status, including both `open` and `close`. A null value means that no device is connected.		

Request Sample

The request body should be a JSON object containing the following fields:

```
curl -X GET '{{host}}/api/v1/developer/doors'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": [
        {
            "door_lock_relay_status": "unlock",
            "door_position_status": "open",
            "floor_id": "23c5db06-b59b-494d-94f1-23e88fbe4909",
            "full_name": "UNVR - 2F - A2 Door",
            "id": "0ed545f8-2fcd-4839-9021-b39e707f6aa9",
            "is_bind_hub": true,
            "name": "A2 Door",
            "type": "door"
        },
        {
            "door_lock_relay_status": "lock",
            "door_position_status": "close",
            "floor_id": "7c62b4b3-692f-44ea-8eb8-e212833b4e0f",
            "full_name": "UNVR - 1F - Door 3855",
            "id": "5785e97b-6123-4596-ba49-b6e51164db9b",
            "is_bind_hub": true,
            "name": "Door 3855",
            "type": "door"
        }
    ],
    "msg": "success"
}
```

7.9 Remote Door Unlocking

This API allows you to remotely unlock a door.

- Request URL: `/api/v1/developer/doors/:id/unlock`
- Permission Key: `edit:space`
- Method: `PUT`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description
id	T	String	Identity ID of the door.

Request Sample

The request body should be a JSON object containing the following fields:

```
curl -X PUT '{{host}}/api/v1/developer/doors/5785e97b-6123-4596-ba49-b6e51164db9b/unlock'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": "success",
    "msg": "success"
}
```

7.10 Set Temporary Door Locking Rule

This API allows you to temporarily set the locking rules for doors.

- Request URL: `/api/v1/developer/doors/:id/lock_rule`
- Permission Key: `edit:space`
- Method: `PUT`
- UniFi Access Requirement: `1.24.6 or later`
- **NOTE**: **UAH-Ent(EAH8)** devices are **not supported**.

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description
id	T	String	Identity ID of the door.

Request Body

Parameter	Required	Type	Description	Example
type	T	String	`enum type {keep_lock,keep_unlock,custom,reset,lock_early}` `keep_lock` is used to set the door to the "keep locked" state, while `keep_unlock` is used to set it to the "keep unlocked" state. `custom` allows customization of the unlock time duration, and `reset` is used to restore the door to its initial state (not applicable to the "lock_early" state). **NOTE:** If the door is currently on an unlock schedule (`schedule`), you can use `lock_early` to lock the door early.	
interval	F	Integer	Set the lock time duration (**minutes**) when type is **custom**.	10

Request Sample

The request body should be a JSON object containing the following fields:

```
# Customized 10-minute unlocked
curl -X PUT '{{host}}/api/v1/developer/doors/e4978b83-203d-4015-97df-b86efc91cb0c/lock_rule'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data '{
        "type": "custom",
        "interval": 10
    }'
    --insecure

# Keep it unlocked
curl -X PUT '{{host}}/api/v1/developer/doors/e4978b83-203d-4015-97df-b86efc91cb0c/lock_rule'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data '{
        "type": "keep_unlock"
    }'
    --insecure
```

```

# Keep it locked
curl -X PUT '{{host}}/api/v1/developer/doors/e4978b83-203d-4015-97df-b86efc91cb0c/lock_rule'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data '{
        "type": "keep_lock"
    }'
    --insecure

# Use reset to restore the temporary unlock schedule (e.g., “Unlock for 1 Hour”) to its original locked state. This parameter is intended solely for resetting a temporary unlock schedule. If you wish to lock a door before its scheduled unlock time ends, use lock_early below instead.
curl -X PUT '{{host}}/api/v1/developer/doors/e4978b83-203d-4015-97df-b86efc91cb0c/lock_rule'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data '{
        "type": "reset"
    }'
    --insecure

# If the door is currently on an unlock schedule, you can use lock_early to lock the door before the scheduled time ends. For instance, if the unlock schedule is set from 9:00 AM to 6:00 PM, you can use this parameter at 3:00 PM to end the schedule and lock the door earlier.
curl -X PUT '{{host}}/api/v1/developer/doors/e4978b83-203d-4015-97df-b86efc91cb0c/lock_rule'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data '{
        "type": "lock_early"
    }'
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": "success",
    "msg": "success"
}
```

7.11 Fetch Door Locking Rule

This API allows you to fetch the locking rules for doors.

- Request URL: `/api/v1/developer/doors/:id/lock_rule`
- Permission Key: `view:space`
- Method: `GET`
- UniFi Access Requirement: `1.24.6 or later`
- **NOTE**: **UAH-Ent(EAH8)** devices are **not supported**.

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description
id	T	String	Identity ID of the door.

Response Body

Parameter	Required	Type	Description	Example
type	T	String	`enum type {schedule,keep_lock,keep_unlock,custom,lock_early}` `keep_lock` is used to set the "keep locked" state, while `keep_unlock` is used to set the "keep unlocked" state. `custom` is used to customize the unlock time duration. `schedule` indicates that the door is currently in the unlock schedule state. The `lock_early` is used to terminate doors in an unlock schedule early.	
ended_time	T	Integer	End time of the set rule.	1708672257

Request Sample

The request body should be a JSON object containing the following fields:

```
curl -X '{{host}}/api/v1/developer/doors/e4978b83-203d-4015-97df-b86efc91cb0c/lock_rule'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

Response Sample

```
# Keep it locked
{
    "code": "SUCCESS",
    "data": {
        "ended_time": 3602128309,
        "type": "keep_lock"
    },
    "msg": "success"
}

# Keep it unlocked
{
    "code": "SUCCESS",
    "data": {
        "ended_time": 3602128562,
        "type": "keep_unlock"
    },
    "msg": "success"
}

# Customized unlock duration
{
    "code": "SUCCESS",
    "data": {
        "ended_time": 1708673342,
        "type": "custom"
    },
    "msg": "success"
}

#The `lock_early` is used to terminate doors in an unlock schedule early.
{
    "code": "SUCCESS",
    "data": {
          "type": "lock_early",
           "ended_time": 1708673342,
    },
    "msg": "success"
}
```

7.12 Set Door Emergency Status

This API allows you to set the emergency status for all doors.

- Request URL: `/api/v1/developer/doors/settings/emergency`

- Permission Key: `edit:space`
- Method: `PUT`
- UniFi Access Requirement: `1.24.6 or later`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Body

Parameter	Required	Type	Description	Example
lockdown	F	Boolean	`True` will keep the door locked.	true
evacuation	F	Boolean	`True` will keep the door unlocked.	false

Request Sample

The request body should be a JSON object containing the following fields:

```
# Keep it locked
curl -X PUT '{{host}}/api/v1/developer/doors/settings/emergency'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data '{
       "lockdown": true,
       "evacuation": false
    }'
    --insecure

# Keep it unlocked
curl -X PUT '{{host}}/api/v1/developer/doors/settings/emergency'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data '{
       "lockdown": false,
       "evacuation": true
    }'
    --insecure

# Restore the initial state or release the setting
curl -X PUT '{{host}}/api/v1/developer/doors/settings/emergency'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data '{
       "lockdown": false,
       "evacuation": false
    }'
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": "success",
    "msg": "success"
}
```

7.13 Fetch Door Emergency Status

This API allows you to fetch the emergency status for all doors.

- Request URL: `/api/v1/developer/doors/settings/emergency`
- Permission Key: `view:space`
- Method: `GET`
- UniFi Access Requirement: `1.24.6 or later`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Response Body

Parameter	Required	Type	Description	Example
lockdown	F	Boolean	`True` will keep the door locked.	true
evacuation	F	Boolean	`True` will keep the door unlocked.	false

Request Sample

The request body should be a JSON object containing the following fields:

```
curl -X '{{host}}/api/v1/developer/doors/settings/emergency'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure

```

Response Sample

```
{
    "code": "SUCCESS",
    "data": {
        "evacuation": true,
        "lockdown": false
    },
    "msg": "success"
}
```

8. Device

> The APIs here are designed for device management, including obtaining device lists, device information, device statuses, device configurations, and more.

8.1 Fetch Devices

Obtain a list of all current devices. The device ID is required for enrolling an NFC card.

- Request URL: `/api/v1/developer/devices`
- Permission Key: `view:device`
- Method: `GET`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Response Body

Parameter	Required	Type	Description	Purpose	Related API
id	T	String	Identity ID of the device.	Used for enrolling an NFC card.	`/api/v1/developer/credentials/nfc_cards/sessions`
name	T	String	Name of the device.		
type	T	String	Type of the device.		
full_name	T	String	Full name of the device.		

Request Sample: Shell/cURL

```
curl '{{host}}/api/v1/developer/devices'
   -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
   -H 'accept: application/json'
   --insecure
```

Response Body

```
{
    "code": "SUCCESS",
    "data": [
        [
            {
                "full_name": "UNVR - Main Floor - Door 3855 - UA-HUB-3855",
                "id": "7483c2773855",
                "name": "UA-HUB-3855",
                "type": "UAH"
            },
            {
                "full_name": "UNVR - Main Floor - Door 3855 - out - UA-LITE-8CED",
                "id": "f492bfd28ced",
                "name": "UA-LITE-8CED",
                "type": "UDA-LITE"
            },
            {
                "full_name": "UNVR - Main Floor - Door 3855 - in - UA-G2-PRO-BB7A",
                "id": "0418d6a2bb7a",
                "name": "UA-G2-PRO-BB7A",
                "type": "UA-G2-PRO"
            }
        ]
    ],
    "msg": "success"
}
```

9. System Log

> The APIs here are designed for system log management.

9.1 Topic Reference

Parameter	Description
all	Fetch all logs.
door_openings	Fetch door opening logs.
critical	Fetch logs for device restart, deletion, offline status, and detection.
updates	Fetch device update logs.
device_events	Fetch logs for device online status, device updates, access policy synchronization, and active and inactive door unlock schedules.
admin_activity	Fetch logs for admin activity, such as access policy updates, settings changes, and user management.
visitor	Fetch logs of of visitor-related operations.

9.1.1 Event Structure

Event: Basic information about the event.

Key	Value (Example)
Type	access.door.unlock
Display Message	Access Granted (Remote)
Result	ACCESS
Published	1701087091000
Tag	access

Actor: Information about the event operator.

Key	Value
ID	[Actor ID]
Type	user
Display Name	[Display Name]
Alternate ID	[Alternate ID]
Alternate Name	[Alternate Name]
Avatar	[Avatar]
SSO Picture	[SSO Picture]

Authentication: Certification information.

Key	Value
Credential Provider	REMOTE_THROUGH_UAH
Issuer	[Issuer]

Target(s): Additional information associated with the event. **Note that each event contains different attributes.**

Type	ID	Display Name	Alternate ID	Alternate Name
UAH	7483c2773855	UA-HUB-3855	[Alternate ID]	[Alternate Name]
device_config	door_entry_method	entry/exit	[Alternate ID]	[Alternate Name]
door	e4978b83-203d-4015-97df-b86efc91cb0c	Door 3855	[Alternate ID]	[Alternate Name]
floor	04ddb371-457f-44ae-b8cc-8e96bcee5de4	1F	[Alternate ID]	[Alternate Name]
building	e622671e-89a5-11ee-8897-76acb95e28d5	UDM Pro	[Alternate ID]	[Alternate Name]

9.2 Fetch System Logs

This API enables you to fetch system logs.

- Request URL: `/api/v1/developer/system/logs`
- Permission Key: `view:system_log`
- Method: `POST`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Query Parameters

Parameter	Required	Type	Description	Example
page_num	F	String	Current page number in the pagination.	1
page_size	F	String	Number of logs per page.	25

Request Body

Parameter	Required	Type	Description	Example
topic	T	String	Fetch different system logs by topic. `enum topic {critical,door_openings,updates,device_events,admin_activity,visitor}`	door_openings
since	F	Integer	Start time for log fetching.	1689304925
until	F	Integer	End time for log fetching.	1689804925
actor_id	F	String	Identity ID of the actor (user, visitor, and device).	3e1f196e-c97b-4748-aecb-eab5e9c251b2

Response Body

Parameter	Required	Type	Description
actor	T	Object	Information about the event operator.
event	T	Object	Basic information about the event.
authentication	F	Object	Certification information.
target	F	Array[Object]	Additional information associated with the event, such as updated information.

Request Sample: Shell/cURL

```
curl '{{host}}/api/v1/developer/system/logs?page_size=1&page_num=25'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data '{
        "topic": "door_openings",
        "since": 1690770546,
        "until": 1690771546,
        "actor_id":"3e1f196e-c97b-4748-aecb-eab5e9c251b2"
    }'
    --insecure
```

Response Body

```
{
    "code": "SUCCESS",
    "data": {
        "hits": [
            {
                "@timestamp": "2023-07-11T12:11:27Z",
                "_id": "",
                "_source": {
                    "actor": {
                        "alternate_id": "",
                        "alternate_name": "",
                        "display_name": "N/A",
                        "id": "",
                        "type": "user"
                    },
                    "authentication": {
                        "credential_provider": "NFC",
                        "issuer": "6FC02554"
                    },
                    "event": {
                        "display_message": "Access Denied / Unknown (NFC)",
                        "published": 1689077487000,
                        "reason": "",
                        "result": "BLOCKED",
                        "type": "access.door.unlock"
                    },
                    "target": [
                        {
                            "alternate_id": "",
                            "alternate_name": "",
                            "display_name": "UA-HUB-3855",
                            "id": "7483c2773855",
                            "type": "UAH"
                        }
                    ]
                },
                "tag": "access"
            }
        ]
    },
    "page": 1,
    "total": 4
}
```

9.3 Export System Logs

This API enables you to export system logs to a CSV file.

- Request URL: `/api/v1/developer/system/logs/export`
- Permission Key: `view:system_log`
- Method: `POST`
- UniFi Access Requirement: `1.20.11 or later`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Body

Parameter	Required	Type	Description	Example
topic	T	String	Fetch different system logs by topic. `enum topic {critical,door_openings,updates,device_events,admin_activity,visitor}`	door_openings
since	T	Integer	Start time for log fetching.	1689304925
until	T	Integer	End time for log fetching. **Note that the since and until periods cannot exceed one month.**	1689804925
timezone	T	String	Timezone for formatting time.	America/New_York
actor_id	F	String	Identity ID of the actor (user, visitor, and device).	3e1f196e-c97b-4748-aecb-eab5e9c251b2

Request Sample: Shell/cURL

```
curl '{{host}}/api/v1/developer/system/logs/export'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data '{
        "topic": "door_openings",
        "since": 1690770546,
        "until": 1690771546,
        "timezone": "America/New_York",
        "actor_id":"3e1f196e-c97b-4748-aecb-eab5e9c251b2"
    }'
    --insecure
```

9.4 Fetch Resources in System Logs

This API enables you to fetch the resources in system logs.

- Request URL: `api/v1/developer/system/logs/resource/:id`
- Permission Key: `view:system_log`
- Method: `GET`
- UniFi Access Requirement: `1.24.6 or later`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Body

Parameter	Required	Type	Description	Example
Id	T	String	Resource ID is obtained from targets categorized as the 'activities_resource' type in system logs.	"target": [{"type": "activities_resource","id": "0418d6a38f00-b6906057-2a90-4426-835c-b5b172381fec","display_name": "Resource","alternate_id": "","alternate_name": ""}]

Response Sample

```
{
    "code": "SUCCESS",
    "msg": "success",
    "data": {
        "video_record": "/activities_resource/video/1708424638_f24a7b67-c584-4e22-a7b8-074f0fa93da0.mp4",
        "video_record_thumbnail": "/activities_resource/thumbnail/1708424638_a6d1fa60-d895-4d4c-a40c-447f97c8824f.jpg",
        "created_at": "2024-02-20T18:23:58+08:00",
        "updated_at": "2024-02-20T18:23:58+08:00"
    }
}
```

Request Sample: Shell/cURL

```
curl '{{host}}/api/v1/developer/system/logs/resource/0418d6a38f00-b6906057-2a90-4426-835c-b5b172381fec'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

9.5 Fetch Static Resources in System Logs

This API enables you to fetch static resources in system logs.

- Request URL: `api/v1/developer/system/static/:path`
- Permission Key: `view:system_log`
- Method: `GET`
- UniFi Access Requirement: `1.24.6 or later`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Body

Parameter	Required	Type	Description	Example
path	T	String	Resource paths, currently supporting `/avatar`, `/capture`, and `activities_resource`.	

Request Sample: Shell/cURL

```
# avatar resource
curl '{{host}}/api/v1/developer/system/static/avatar/da1aceb6-20ba-4285-a6b1-c4f2bf7161f8'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure

# preview resource
curl '{{host}}/api/v1/developer/system/static/preview/1700707333_9660da3a-06c8-459d-8cc9-24889d13fba5.png'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure

# capture video resource
curl '{{host}}/api/v1/developer/system/static/activities_resource/video/1708402379_92746868-5c69-4a11-9d4c-33f03785d741.jpg'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure

# capture thumbnail resource
curl '{{host}}/api/v1/developer/system/static/activities_resource/thumbnail/1708402379_92746868-5c69-4a11-9d4c-33f03785d741.jpg'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

10. UniFi Identity

> The APIs here are designed for the UniFi Identity app.

10.1 Send UniFi Identity Invitations

This API enables you to send invitations and invite users to join UniFi Identity.

- Request URL: `/api/v1/developer/users/identity/invitations`
- Permission Key: `edit:user`
- Method: `POST`
- UniFi Access Requirement: `1.24.6 or later`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Body

Parameter	Required	Type	Description
Array[Object].user_id	T	String	Identity ID of the user.
Array[Object].email	F	String	Email of the user. **If filled in, it will update the user's existing email address.**

Request Sample: Shell/cURL

```
curl -XPOST '{{host}}/api/v1/developer/users/identity/invitations'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data-raw '[
    {
        "user_id": "e0051e08-c4d5-43db-87c8-a9b19cb66513",
        "email": "example@*.com"
    },

]'
    --insecure
```

Response Body

```
# Success
{
    "code": "SUCCESS",
    "data": [],
    "msg": "success"
}

# If there is a failure to send an email
{
    "code": "SUCCESS",
    "data": [
        {
            "error_code": "",
            "error_msg": "invalid email",
            "user_email": "example@*.com",
            "user_id": "e0051e08-c4d5-43db-87c8-a9b19cb66513"
        }
    ],
    "msg": "success"
}
```

10.2 Fetch Available Resources

This API enables you to fetch the available UniFi Identity resources.

- Request URL: `/api/v1/developer/users/identity/assignments`
- Permission Key: `view:user`
- Method: `GET`
- UniFi Access Requirement: `1.24.6 or later`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Query Parameters

Parameter	Required	Type	Description	Example
resource_type	F	String	Display the type of resources; show all when left blank. `enum resource_type {ev_station,vpn,wifi}`	resource_type=ev_station,wifi,vpn

Response Body

Parameter	Required	Type	Description
data.[resource_type]	T	String	Type of the resources. `enum resource_type {ev_station,vpn,wifi,camera}`
id	T	String	Identity ID of the resources.
name	T	String	Name of the resources.
deleted	T	Boolean	Indicate whether the resource is disabled.

Request Sample: Shell/cURL

```
curl '{{host}}/api/v1/developer/users/identity/assignments?resource_type=ev_station,wifi,vpn'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": {
        "ev_station": [],
        "vpn": [
            {
                "deleted": false,
                "id": "65dff9a9c188cb71cfac8e9d",
                "metadata": null,
                "name": "UDM Pro",
                "short_name": ""
            }
        ],
        "wifi": [
            {
                "deleted": false,
                "id": "65dff9a8c188cb71cfac8e9a",
                "metadata": null,
                "name": "UniFi Identity",
                "short_name": ""
            }
        ]
    },
    "msg": "success"
}
```

10.3 Assign Resources to Users

This API enables you to assign UniFi Identity resources to users.

- Request URL: `/api/v1/developer/users/:id/identity/assignments`
- Permission Key: `edit:user`
- Method: `POST`
- UniFi Access Requirement: `1.24.6 or later`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	How to Get It?
id	T	String	Identity ID of the user.	Get it from the API `/api/v1/developer/users`

Request Body

Parameter	Required	Type	Description	How to Get It?
resource_type	T	String	`enum resource_type {ev_station,vpn,wifi}`	Get it from the API 10.2
resource_ids	T	Array[String]	Identity ID of the resources.	Get it from the API 10.2

Request Sample: Shell/cURL

```
curl -XPOST '{{host}}/api/v1/developer/users/b602879b-b857-400b-970b-336d4cb881ad/identity/assignments'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data '{
        "resource_type": "wifi",
        "resource_ids": [
            "65dff9a8c188cb71cfac8e9a"
        ]
    }'
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": null,
    "msg": "success"
}
```

10.4 Fetch Resources Assigned to Users

This API enables you to fetch the UniFi Identity resources assigned to users.

- Request URL: `/api/v1/developer/users/:id/identity/assignments`
- Permission Key: `view:user`
- Method: `GET`
- UniFi Access Requirement: `1.24.6 or later`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	How to Get It?
id	T	String	Identity ID of the user.	Get it from the API `/api/v1/developer/users`

Response Body

Parameter	Required	Type	Description
data.[resource_type]	T	Array[Object]	Type of the resources. `enum resource_type {ev_station,vpn,wifi,camera}`
id	T	String	Identity ID of the resources.
name	T	String	Name of the resources.
deleted	T	Boolean	Indicate whether a resource is disabled.

Request Sample: Shell/cURL

```
curl -XGET '{{host}}/api/v1/developer/users/b602879b-b857-400b-970b-336d4cb881ad/identity/assignments'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": {
        "ev_station": [],
        "vpn": [
            {
                "deleted": false,
                "id": "65dff9a9c188cb71cfac8e9d",
                "metadata": {
                    "has_ip": true
                },
                "name": "UDM Pro",
                "short_name": ""
            }
        ],
        "wifi": [
            {
                "deleted": false,
                "id": "65dff9a8c188cb71cfac8e9a",
                "metadata": null,
                "name": "UniFi Identity",
                "short_name": ""
            }
        ]
    },
    "msg": "success"
}
```

10.5 Assign Resources to User Groups

This API enables you to assign UniFi Identity resources to user groups.

- Request URL: `/api/v1/developer/user_groups/:id/identity/assignments`
- Permission Key: `edit:user`
- Method: `POST`
- UniFi Access Requirement: `2.2.0 or later`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	How to Get It?
id	T	String	Identity ID of the user group.	Get it from the API `/api/v1/developer/user_groups`

Request Body

Parameter	Required	Type	Description	How to Get It?
resource_type	T	String	`enum resource_type {ev_station,vpn,wifi}`	Get it from the API 10.2
resource_ids	T	Array[String]	Identity ID of the resources.	Get it from the API 10.2

Request Sample: Shell/cURL

```
curl -XPOST '{{host}}/api/v1/developer/user_groups/7476c839-8e10-472e-894f-c5b8254c35b5/identity/assignments'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data '{
        "resource_type": "wifi",
        "resource_ids": [
            "65dff9a8c188cb71cfac8e9a"
        ]
    }'
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": null,
    "msg": "success"
}
```

10.6 Fetch the Resources Assigned to User Groups

This API enables you to fetch the UniFi Identity resources assigned to user groups.

- Request URL: `/api/v1/developer/user_groups/:id/identity/assignments`
- Permission Key: `view:user`
- Method: `GET`
- UniFi Access Requirement: `2.2.0 or later`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	How to Get It?
id	T	String	Identity ID of the user group.	Get it from the API `/api/v1/developer/user_groups`

Response Body

Parameter	Required	Type	Description
data.[resource_type]	T	Array[Object]	Type of the resources. `enum resource_type {ev_station,vpn,wifi,camera}`
id	T	String	Identity ID of the resources.
name	T	String	Name of the resources.
deleted	T	Boolean	Indicate whether a resource is disabled.

Request Sample: Shell/cURL

```
curl -XGET '{{host}}/api/v1/developer/user_groups/7476c839-8e10-472e-894f-c5b8254c35b5/identity/assignments'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": {
        "ev_station": [],
        "vpn": [
            {
                "deleted": false,
                "id": "65dff9a9c188cb71cfac8e9d",
                "metadata": {
                    "has_ip": true
                },
                "name": "UDM Pro",
                "short_name": ""
            }
        ],
        "wifi": [
            {
                "deleted": false,
                "id": "65dff9a8c188cb71cfac8e9a",
                "metadata": null,
                "name": "UniFi Identity",
                "short_name": ""
            }
        ]
    },
    "msg": "success"
}
```

11. Notification

> The APIs here are designed for Webhooks and WebSockets.

11.1 Fetch Notifications [WebSocket]

This API enables you to fetch notifications, such as doorbell notifications.

- Request URL: `/api/v1/developer/devices/notifications`
- Permission Key: `view:device`
- Protocol: `WebSocket`
- Method: `GET`
- UniFi Access Requirement: `1.20.11 or later`

Request Sample: wscat

```
wscat
    --no-check
    -c wss://192.168.1.1:12445/api/v1/developer/devices/notifications
    -H "Authorization: Bearer qoFJMyRG2eeCWlW9YQX0+g"
    -H "Upgrade: websocket"
    -H "Connection: Upgrade"
```

WebSocket Payload

> When a doorbell rings: [access.remote_view]

```
{
    "event": "access.remote_view",
    "receiver_id": "",
    "event_object_id": "535b6125-860c-489a-b0a1-0ba01906afa9",
    "save_to_history": false,
    "data": {
        "channel": "4513899f-0370-4116-9731-63a6b0feea23",
        "token": "6dff120f-2688-497d-856f-0ca08b383d1d",
        "device_id": "e4388386be1d",
        "device_type": "UA-G2-PRO",
        "device_name": "UA-G2-PRO-BE1D",
        "door_name": "Door 236b",
        "controller_id": "68d79a1f494f",
        "floor_name": "1F",
        "request_id": "J0FeDJc8ZNzHjxr1SUIP6GLQDjAkdZFp",
        "clear_request_id": "",
        "in_or_out": "in",
        "create_time": 1694771479,
        "reason_code": 0,
        "door_guard_ids": [
            "daa10301-7744-4623-a90e-372718af1d41",
            "9d526114-70ce-49ec-8655-81767ffb3eb4",
            "c003514f-60bb-4aa3-9150-cd361b1458a0",
            "0d6273e4-9b54-4b91-b7f8-40d0d41780c1",
            "f395f473-e6ea-4232-a45f-9ec20c813e96",
            "c52f9920-be17-4357-936c-47d94dad753a",
            "8ed10bf7-8f5e-4b68-98da-76d2f315d515",
            "e4de9c92-e385-4b31-8cfc-8e9d192c0e10",
            "2159ac55-a1d9-42f3-ba2b-6c87cf5ea383"
        ],
        "connected_uah_id": "e4388384236b",
        "room_id": "WR-e4388386be1d-3YSCjtuV5VuyfLT46mUXnnY2q5KQfKxX",
        "host_device_mac": "68D79A1F494B"
    }
}
```

> Doorbell status change: [access.remote_view.change]

reason_code	Description
105	Doorbell timed out.
106	An admin rejected to unlock a door.
107	An admin successfully unlocked a door.
108	A visitor canceled a doorbell.
400	Doorbell was answered by another admin.

```
{
    "event": "access.remote_view.change",
    "receiver_id": "",
    "event_object_id": "450a6c0f-28f7-47ca-99c3-5a35475fece4",
    "save_to_history": false,
    "data": {
        "reason_code": 108,
        "remote_call_request_id": "J0FeDJc8ZNzHjxr1SUIP6GLQDjAkdZFp"
    }
}
```

> Remote door unlock by admin: [access.data.device.remote_unlock]

```
{
    "event": "access.data.device.remote_unlock",
    "receiver_id": "",
    "event_object_id": "e4388384236b",
    "save_to_history": false,
    "data": {
        "unique_id": "5d600936-8618-4f2d-a1b7-d786865b70ba",
        "name": "Door 236b",
        "up_id": "913a35bc-66c9-4293-a617-846dd2e285ed",
        "timezone": "",
        "location_type": "door",
        "extra_type": "",
        "full_name": "UDR-ML - 1F - Door 236b",
        "level": 0,
        "work_time": "[]",
        "work_time_id": "",
        "extras": {
            "uah-input_state_dps": "off",
            "uah-wiring_state_dps-neg": "off",
            "uah-wiring_state_dps-pos": "off"
        }
    }
}
```

11.2 List of Supported Webhook Events [Webhook]

> To enable webhook events, you need to register webhook endpoints. Once registered, UniFi Access can push real-time event data to your application's webhook endpoint as events occur. UniFi Access uses HTTPS to send these webhook events to your application, delivering a JSON payload that includes a JSON object.

Event/Operation	Description
access.doorbell.incoming	Doorbell notifications.
access.doorbell.completed	Accept, decline, or cancel doorbell notifications.
access.doorbell.incoming.REN	Doorbells triggered via request-to-enter (REN) buttons.
access.device.dps_status	Changes in door position sensor (DPS) status.
access.door.unlock	All door unlock events.

11.3 Fetch Webhook Endpoints List [Webhook]

This API enables you to fetch the available webhook endpoints.

- Request URL: `/api/v1/developer/webhooks/endpoints`
- Permission Key: `view:webhook`

- Method: `GET`
- UniFi Access Requirement: `2.2.10 or later`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Response Body

Parameter	Required	Type	Description
id	T	String	Identity ID of the endpoint.
endpoint	T	String	HTTPS endpoint.
name	T	String	Endpoint name of the subscription.
secret	T	String	The secret used for verifying events coming from UniFi Access.
events	T	Array[String]	Select the event you want to subscribe to.

Request Sample: Shell/cURL

```
curl '{{host}}/api/v1/developer/webhooks/endpoints'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": [
        {
            "endpoint": "http://192.168.1.1:8080",
            "events": [
                "access.doorbell.incoming",
                "access.doorbell.completed",
                "access.doorbell.incoming.REN",
                "access.device.dps_status",
                "access.door.unlock"
            ],
            "id": "1a639160-a7c8-45cb-8789-50dfd255a0fe",
            "name": "subscription events",
            "secret": "6601f1243d2ff70f"
        }
    ],
    "msg": "success"
}
```

11.4 Add Webhook Endpoints [Webhook]

This API enables you to add a webhook endpoint.

- Request URL: `/api/v1/developer/webhooks/endpoints`
- Permission Key: `edit:webhook`
- Method: `POST`
- UniFi Access Requirement: `2.2.10 or later`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Body

Parameter	Required	Type	Description
endpoint	T	String	HTTPS endpoint. **Note**:It is recommended to use HTTPS.
name	T	String	Endpoint name of the subscription.
events	T	Array[String]	Select the event you want to subscribe to.

Request Sample: Shell/cURL

```
curl -XPOST '{{host}}/api/v1/developer/webhooks/endpoints'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data '{
        "name": "subscription events",
        "endpoint": "http://192.168.1.1:8080",
        "events": [
            "access.doorbell.incoming",
            "access.doorbell.completed",
            "access.doorbell.incoming.REN",
            "access.device.dps_status",
            "access.door.unlock"
        ]
    }
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": {
        "endpoint": "http://192.168.1.1:8080",
        "events": [
            "access.doorbell.incoming",
            "access.doorbell.completed",
            "access.doorbell.incoming.REN",
            "access.device.dps_status",
            "access.door.unlock"
        ],
        "id": "a22ee283-c91f-432b-9d0f-e89bcccad4be",
        "name": "subscription events",
        "secret": "1a7c9c6a69bb5a1e"
    },
    "msg": "success"
}
```

11.5 Update Webhook Endpoints [Webhook]

This API enables you to update the available webhook endpoints.

- Request URL: `/api/v1/developer/webhooks/endpoints/:id`
- Permission Key: `edit:webhook`
- Method: `PUT`
- UniFi Access Requirement: `2.2.10 or later`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	Example
id	T	String	Identity ID of the endpoint.	a22ee283-c91f-432b-9d0f-e89bcccad4be

Request Body

Parameter	Required	Type	Description
endpoint	T	String	HTTPS endpoint.
name	T	String	Endpoint name of the subscription.
events	T	Array[String]	Select the event you want to subscribe to.

Request Sample: Shell/cURL

```
curl -XPUT '{{host}}/api/v1/developer/webhooks/endpoints/a22ee283-c91f-432b-9d0f-e89bcccad4be'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --data '{
        "name": "subscription events",
        "endpoint": "http://192.168.1.1:8080",
        "events": [
            "access.doorbell.incoming",
            "access.doorbell.completed",
            "access.doorbell.incoming.REN",
            "access.device.dps_status",
            "access.door.unlock"
        ]
    }
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": {
        "endpoint": "http://192.168.1.1:8080",
        "events": [
            "access.doorbell.incoming",
            "access.doorbell.completed",
            "access.doorbell.incoming.REN",
            "access.device.dps_status",
            "access.door.unlock"
        ],
        "id": "a22ee283-c91f-432b-9d0f-e89bcccad4be",
        "name": "subscription events",
        "secret": "1a7c9c6a69bb5a1e"
    },
    "msg": "success"
}
```

11.6 Delete Webhook Endpoints [Webhook]

This API enables you to delete the available webhook endpoints.

- Request URL: `/api/v1/developer/webhooks/endpoints/:id`
- Permission Key: `edit:webhook`
- Method: `DELETE`
- UniFi Access Requirement: `2.2.10 or later`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Path

Parameter	Required	Type	Description	Example
id	T	String	Identity ID of the endpoint.	a22ee283-c91f-432b-9d0f-e89bcccad4be

Request Sample: Shell/cURL

```
curl -XDELETE '{{host}}/api/v1/developer/webhooks/endpoints/a22ee283-c91f-432b-9d0f-e89bcccad4be'
    -H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg'
    -H 'accept: application/json'
    -H 'content-type: application/json'
    --insecure
```

Response Sample

```
{
    "code": "SUCCESS",
    "data": null,
    "msg": "success"
}
```

11.7 Allow Webhook Endpoint Owner to Receive Webhook Events [Webhook]

The following samples demonstrate how to receive webhook messages. Note that the secret needs to be adjusted to the assigned secret. These are just examples; in actual use, HTTPS and a custom URL should be used.

Request from UniFi Access

- Request URL: `Your webhook endpoint`
- Method: `POST`
- UniFi Access Requirement: `2.2.10 or later`

Parameter	Required	Type	Description	Example
Signature	T	String	Contains request time(**t**) and signature(**v1**)	t=1695902233, v1=a7ea8840af212767d7795481bed914a9f2ea7241d35212b597bec13aa4bfa06b

Response Payload Sample

```
#access.door.unlock
{
    "event": "access.door.unlock",
    "event_object_id": "4a98adf6-dbb8-4312-9b8b-593f6eba8c8e",
    "data": {
        "location": {
            "id": "d2b87427-7efa-43c1-aa52-b00d40d99ecf",
            "location_type": "door",
            "name": "Door 3855",
            "up_id": "62ff3aa1-ae96-4b6b-8eb5-44aadfd4aabd",
            "extras": {
                "door_thumbnail": "/preview/reader_0418d6a2bb7a_d2b87427-7efa-43c1-aa52-b00d40d99ecf_1722913291.jpg",
                "door_thumbnail_last_update": 1722913291,
                "uah-input_state_dps": "on",
                "uah-wiring_state_dps-neg": "on",
                "uah-wiring_state_dps-pos": "on"
            },
            "device_ids": null
        },
        "device": {
            "name": "UA-HUB-3855",
            "alias": "Door 3855",
            "id": "7483c2773855",
            "ip": "192.168.1.132",
            "mac": "",
            "online": false,
            "device_type": "UAH",
            "connected_hub_id": "",
            "location_id": "d2b87427-7efa-43c1-aa52-b00d40d99ecf",
            "firmware": "v4.6.1.0",
            "version": "v4.6.129",
            "guid": "4a5e238f-4bae-48d5-84d7-dd2b0e919ab5",
            "start_time": 1721988528,
            "hw_type": "",
            "revision": "1722912520784126005",
            "cap": null
        },
        "actor": {
            "id": "d62e92fd-91aa-44c2-9b36-6d674a4b74d0",
            "name": "Hon***",
            "type": "user"
        },
        "object": {
            "authentication_type": "CALL", //Door opening method,
NFC/PIN_CODE/Call For a DoorBell
            "authentication_value": "",
            "policy_id": "",
            "policy_name": "",
            "reader_id": "",
            "result": "Access Granted"
        }
    }
}

#access.doorbell.incoming
{
    "event": "access.doorbell.incoming",
    "event_object_id": "641cee06-89b5-4fef-9ce5-f9a2ae33ffd8",
    "data": {
        "location": {
            "id": "d2b87427-7efa-43c1-aa52-b00d40d99ecf",
            "location_type": "door",
            "name": "Door 3855",
            "up_id": "62ff3aa1-ae96-4b6b-8eb5-44aadfd4aabd",
            "extras": {
                "door_thumbnail": "/preview/reader_0418d6a2bb7a_d2b87427-7efa-43c1-aa52-b00d40d99ecf_1722912625.jpg",
                "door_thumbnail_last_update": 1722912625,
                "uah-input_state_dps": "on",
                "uah-wiring_state_dps-neg": "on",
                "uah-wiring_state_dps-pos": "on"
            },
            "device_ids": null
        },
        "device": {
            "name": "UA G2 Pro bb7a",
            "alias": "Door 3855 - Entry2",
            "id": "0418d6a2bb7a",
            "ip": "192.168.1.37",
            "mac": "04:18:d6:a2:bb:7a",
            "online": false,
            "device_type": "UA-G2-PRO",
            "connected_hub_id": "7483c2773855",
            "location_id": "d2b87427-7efa-43c1-aa52-b00d40d99ecf",
            "firmware": "v1.5.33",
            "version": "v1.5.3543",
            "guid": "06d4277c-3dd3-4691-8aac-3e140abb8699",
            "start_time": 1722483954,
            "hw_type": "GA",
            "revision": "1722912520784126005",
            "cap": null
        },
        "actor": null,
        "object": {
            "request_id": "Ed8XSsi4fLm6St7JOLLa26UcmzAZlGzn"
        }
    }
}

#access.doorbell.completed
>  Doorbell status changes:
| reason_code | Description                             |
| ----------- | --------------------------------------- |
| 105         | Doorbell timed out.                     |
| 106         | An admin declined the door unlock request.   |
| 107         | An admin successfully unlocked the door.  |
| 108         | A visitor canceled the doorbell.       |
| 400         | Doorbell was answered by another admin. |

{
    "event": "access.doorbell.completed",
    "event_object_id": "c4bf20b7-1bd3-4b4c-a0b9-bca3cb273bcf",
    "data": {
        "location": {
            "id": "d2b87427-7efa-43c1-aa52-b00d40d99ecf",
            "location_type": "door",
            "name": "Door 3855",
            "up_id": "62ff3aa1-ae96-4b6b-8eb5-44aadfd4aabd",
            "extras": {
                "door_thumbnail": "/preview/reader_0418d6a2bb7a_d2b87427-7efa-43c1-aa52-b00d40d99ecf_1722913291.jpg",
                "door_thumbnail_last_update": 1722913291,
                "uah-input_state_dps": "on",
                "uah-wiring_state_dps-neg": "on",
                "uah-wiring_state_dps-pos": "on"
            },
            "device_ids": null
        },
        "device": {
            "name": "UA G2 Pro bb7a",
            "alias": "Door 3855 - Entry2",
            "id": "0418d6a2bb7a",
            "ip": "192.168.1.37",
            "mac": "04:18:d6:a2:bb:7a",
            "online": false,
            "device_type": "UA-G2-PRO",
            "connected_hub_id": "7483c2773855",
            "location_id": "d2b87427-7efa-43c1-aa52-b00d40d99ecf",
            "firmware": "v1.5.33",
            "version": "v1.5.3543",
            "guid": "06d4277c-3dd3-4691-8aac-3e140abb8699",
            "start_time": 1722483954,
            "hw_type": "GA",
            "revision": "1722912520784126005",
            "cap": null
        },
        "actor": null,
        "object": {
            "host_device_mac": "",
            "reason_code": 400,
            "request_id": "Ed8XSsi4fLm6St7JOLLa26UcmzAZlGzn" //Request ID for doorbell
        }
    }
}

#access.device.dps_status
{
    "event": "access.device.dps_status",
    "event_object_id": "229899f2-ba52-461a-a3af-e011fb5078d1",
    "data": {
        "location": {
            "id": "d2b87427-7efa-43c1-aa52-b00d40d99ecf",
            "location_type": "door",
            "name": "Door 3855",
            "up_id": "62ff3aa1-ae96-4b6b-8eb5-44aadfd4aabd",
            "extras": {
                "door_thumbnail": "/preview/reader_0418d6a2bb7a_d2b87427-7efa-43c1-aa52-b00d40d99ecf_1722912625.jpg",
                "door_thumbnail_last_update": 1722912625,
                "uah-input_state_dps": "on",
                "uah-wiring_state_dps-neg": "on",
                "uah-wiring_state_dps-pos": "on"
            },
            "device_ids": null
        },
        "device": {
            "name": "UA-HUB-3855",
            "alias": "Door 3855",
            "id": "7483c2773855",
            "ip": "192.168.1.132",
            "mac": "74:83:c2:77:38:55",
            "online": false,
            "device_type": "UAH",
            "connected_hub_id": "",
            "location_id": "d2b87427-7efa-43c1-aa52-b00d40d99ecf",
            "firmware": "v4.6.1.0",
            "version": "v4.6.129",
            "guid": "4a5e238f-4bae-48d5-84d7-dd2b0e919ab5",
            "start_time": 1721988528,
            "hw_type": "",
            "revision": "1722912520784126005",
            "cap": null
        },
        "actor": null,
        "object": {
            "event_type": "dps_change", //DPS change type
            "status": "close" //DPS change status
        }
    }
}

#access.doorbell.incoming.REN
{
    "event": "access.doorbell.incoming.REN",
    "event_object_id": "a819573f-a273-4909-b13b-b1477b9e4a19",
    "data": {
        "location": {
            "id": "d2b87427-7efa-43c1-aa52-b00d40d99ecf",
            "location_type": "door",
            "name": "Door 3855",
            "up_id": "62ff3aa1-ae96-4b6b-8eb5-44aadfd4aabd",
            "extras": {
                "door_thumbnail": "/preview/reader_0418d6a2bb7a_d2b87427-7efa-43c1-aa52-b00d40d99ecf_1722912625.jpg",
                "door_thumbnail_last_update": 1722912625,
                "uah-input_state_dps": "off",
                "uah-wiring_state_dps-neg": "off",
                "uah-wiring_state_dps-pos": "off"
            },
            "device_ids": null
        },
        "device": null,
        "actor": null,
        "object": {
            "host_device_mac": "74ACB95E28D5",
            "reason_code": 0,
            "request_id": "65d22fd2-29d7-43a8-b0f5-30a6722fcf1e" //Request ID for doorbell
        }
    }
}


```

Handle Request（Using GO as a Sample）

> You can get the secret here. It is recommended to handle asynchronous processing logic, as there is currently a 5-second timeout set.

```go
package main

import (
    "crypto/hmac"
    "crypto/sha256"
    "encoding/hex"
    "encoding/json"
    "errors"
    "fmt"
    "io/ioutil"
    "log"
    "net/http"
    "strconv"
    "strings"
    "time"
)

const (
    port   = ":8080"
    secret = "6601f1243d2ff70f"
)
```

```go

func handlePostRequest(w http.ResponseWriter, r *http.Request) {
    signature := r.Header.Get("Signature")

    body, err := ioutil.ReadAll(r.Body)
    if err != nil {
        http.Error(w, "Failed to read request body", http.StatusBadRequest)
        return
    }

    _, err = ConstructEvent(body, signature, secret)
    if err != nil {
        w.WriteHeader(http.StatusInternalServerError)
        w.Write([]byte(err.Error()))
        return
    }

    w.WriteHeader(http.StatusOK)
    w.Write([]byte("OK"))
}

func main() {
    http.HandleFunc("/", handlePostRequest)

    fmt.Printf("Server listening on port %s...\n", port)
    log.Fatal(http.ListenAndServe(port, nil))
}

var (
    ErrInvalidHeader    = errors.New("webhook has invalid Signature header")
    ErrNoValidSignature = errors.New("webhook had no valid signature")
    ErrNotSigned        = errors.New("webhook has no Signature header")
)

func ConstructEvent(payload []byte, header string, secret string) (json.RawMessage, error) {
    return constructEvent(payload, header, secret)
}

type signedHeader struct {
    timestamp time.Time
    signature []byte
}

func constructEvent(payload []byte, sigHeader string, secret string) (json.RawMessage, error) {
    var e json.RawMessage

    if err := validatePayload(payload, sigHeader, secret); err != nil {
        return e, err
    }

    if err := json.Unmarshal(payload, &e); err != nil {
        return e, fmt.Errorf("Failed to parse webhook body json: %s", err.Error())
    }

    return e, nil
}

var signingVersion = "v1"

func parseSignatureHeader(header string) (*signedHeader, error) {
    sh := &signedHeader{}

    if header == "" {
        return sh, ErrNotSigned
    }

    pairs := strings.Split(header, ",")
    for _, pair := range pairs {
        parts := strings.Split(pair, "=")
        if len(parts) != 2 {
            return sh, ErrInvalidHeader
        }

        switch parts[0] {
        case "t":
            timestamp, err := strconv.ParseInt(parts[1], 10, 64)
            if err != nil {
                return sh, ErrInvalidHeader
            }
            sh.timestamp = time.Unix(timestamp, 0)

        case signingVersion:
            sig, err := hex.DecodeString(parts[1])
            if err != nil {
                continue
            }

            sh.signature = sig
        }
    }

    if len(sh.signature) == 0 {
        return sh, ErrNoValidSignature
    }

    return sh, nil
```

```go
}

func validatePayload(payload []byte, sigHeader string, secret string) error {
    header, err := parseSignatureHeader(sigHeader)
    if err != nil {
        return err
    }

    expectedSignature := computeSignature(header.timestamp, payload, secret)
    if hmac.Equal(expectedSignature, header.signature) {
        return nil
    }

    return ErrNoValidSignature
}

func computeSignature(t time.Time, payload []byte, secret string) []byte {
    mac := hmac.New(sha256.New, []byte(secret))
    mac.Write([]byte(fmt.Sprintf("%d", t.Unix())))
    mac.Write([]byte("."))
    mac.Write(payload)
    return mac.Sum(nil)
}

func hexSignature(signature []byte) string {
    return hex.EncodeToString(signature)
}
```

Handle Request（Using Rust as a Sample）

> You can get the secret here. It is recommended to handle asynchronous processing logic, as there is currently a 5-second timeout set.

```rust
use hex::FromHex;
use sha2::Sha256;
use warp::Filter;
use bytes::Bytes;
use hmac::{Hmac, Mac};

const SECRET: &[u8] = b"6601f1243d2ff70f";

#[tokio::main]
async fn main() {
    let routes = warp::post()
        .and(warp::body::bytes())
        .and(warp::header::header("Signature"))
        .and_then(handle_post_request);

         warp::serve(routes).run(([0, 0, 0, 0], 8080)).await;
```

```rust
}

async fn handle_post_request(payload: Bytes, signature: String) -> Result<impl warp::Reply, warp::Rejection> {
    let payload_str = std::str::from_utf8(&payload)
        .map_err(|_| warp::reject::custom(ErrorKind::InvalidPayload))?;

    let validated_payload = validate_payload(payload_str, &signature, SECRET)?;
    println!("Validated Payload: {}", validated_payload);

    Ok(warp::reply::with_status("OK", warp::http::StatusCode::OK))
}

#[derive(Debug)]
enum ErrorKind {
    InvalidHeader,
    NoValidSignature,
    NotSigned,
    InvalidPayload,
}

impl warp::reject::Reject for ErrorKind {}

fn validate_payload<'a>(payload: &'a str, sig_header: &'a str, secret: &[u8]) -> Result<&'a str, warp::reject::Rejection> {
    let header = parse_signature_header(sig_header)?;

    let expected_signature = compute_signature(header.timestamp, payload.as_bytes(), secret);

    if expected_signature == header.signature {
        return Ok(payload);
    }

    Err(warp::reject::custom(ErrorKind::NoValidSignature))
}

struct SignedHeader {
    timestamp: u64,
    signature: Vec<u8>,
}

fn parse_signature_header(header: &str) -> Result<SignedHeader, warp::reject::Rejection> {
    let mut sh = SignedHeader {
        timestamp: 0,
        signature: Vec::new(),
    };

    if header.is_empty() {
        return Err(warp::reject::custom(ErrorKind::NotSigned));
    }

    let pairs: Vec<&str> = header.split(',').collect();
    for pair in pairs {
        let parts: Vec<&str> = pair.split('=').collect();
        if parts.len() != 2 {
            return Err(warp::reject::custom(ErrorKind::InvalidHeader));
        }

        match parts[0] {
            "t" => {
                let timestamp = parts[1].parse::<u64>().map_err(|_| warp::reject::custom(ErrorKind::InvalidHeader))?;
                sh.timestamp = timestamp;
            }
            "v1" => {
                let sig = Vec::from_hex(parts[1]).ok();
                if let Some(sig) = sig {
                    sh.signature = sig;
                }
            }
            _ => continue,
        }
    }

    if sh.signature.is_empty() {
        return Err(warp::reject::custom(ErrorKind::NoValidSignature));
    }

    Ok(sh)
}

type HmacSha256 = Hmac<Sha256>;

fn compute_signature(timestamp: u64, payload: &[u8], secret: &[u8]) -> Vec<u8> {
    let mut mac = HmacSha256::new_from_slice(secret).expect("HMAC can take key of any size");
    mac.update(timestamp.to_string().as_bytes());
    mac.update(b".");
    mac.update(payload);
    mac.finalize().into_bytes().to_vec()
}
```

Handle Request（Using Python as a Sample）

> You can get the secret here. It is recommended to handle asynchronous processing logic, as there is currently a 5-second timeout set.

```python
import hmac
import hashlib
import json
from flask import Flask, request, jsonify
from datetime import datetime
import time

app = Flask(__name__)

SECRET = "6601f1243d2ff70f"
SIGNING_VERSION = "v1"

class WebhookError(Exception):
    pass

class InvalidHeaderError(WebhookError):
    pass

class NoValidSignatureError(WebhookError):
    pass

class NotSignedError(WebhookError):
    pass

def parse_signature_header(header):
    if not header:
        raise NotSignedError("Webhook has no Signature header")

    pairs = header.split(",")
    parsed_header = {}
    for pair in pairs:
        key, value = pair.split("=")
        parsed_header[key] = value

    if 't' not in parsed_header or SIGNING_VERSION not in parsed_header:
        raise InvalidHeaderError("Webhook has invalid Signature header")

    timestamp = int(parsed_header['t'])
    signature = bytes.fromhex(parsed_header[SIGNING_VERSION])
    return timestamp, signature

def compute_signature(timestamp, payload, secret):
    mac = hmac.new(secret.encode(), digestmod=hashlib.sha256)
    mac.update(f"{timestamp}".encode())
    mac.update(b".")
    mac.update(payload)
    return mac.digest()

def validate_payload(payload, sig_header, secret):
    timestamp, received_signature = parse_signature_header(sig_header)
    expected_signature = compute_signature(timestamp, payload, secret)
    if not hmac.compare_digest(expected_signature, received_signature):
        raise NoValidSignatureError("Webhook had no valid signature")

def construct_event(payload, sig_header, secret):
    validate_payload(payload, sig_header, secret)
    return json.loads(payload)

@app.route("/", methods=["POST"])
def handle_post_request():
    signature = request.headers.get("Signature")

    try:
        payload = request.data
        event = construct_event(payload, signature, SECRET)
    except WebhookError as e:
        return str(e), 500
    except Exception as e:
        return "Failed to read request body", 400

    return "OK", 200

if __name__ == "__main__":
    app.run(port=8080)
```

12. API Server

> The APIs here are designed for API server configuration.

12.1 Upload HTTPS Certificate

This API allows you to update the HTTPS certificate for the Access API, applicable only to port **12445**. **Please note that restarting the Access application is necessary to apply these changes.** If the Private Key and Certificate do not match, it will result in a "parameter error" message.

- Request URL: `/api/v1/developer/api_server/certificates`
- Permission Key: `edit:api_server`
- Method: `POST`
- UniFi Access Requirement: `Version 2.2.10 or later`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Request Body

Parameter	Required	Type	Description	Example
key	T	File	Private Key	server.key
cert	T	File	Certificate	server.crt

Response Sample

```
{
    "code": "SUCCESS",
    "data": "success",
    "msg": "success"
}
```

Request Sample

The request body should be a JSON object containing the following fields:

```
curl -XPOST
'{{host}}/api/v1/developer/api_server/certificates' \
--H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg/yg' \
--form 'key=@"/server.key"' \
--form 'cert=@"/server.crt"'
```

12.2 Delete HTTPS Certificate

This API allows you to delete the HTTPS certificate for the Access API, applicable only to port **12445**. **Please note that restarting the Access application is necessary to apply these changes.**

- Request URL: `/api/v1/developer/api_server/certificates`
- Permission Key: `edit:api_server`
- Method: `DELETE`
- UniFi Access Requirement: `Version 2.2.10 or later`

Request Header

Parameter	Required	Type	Description
Authorization	T	String	Token required for authentication and access control.

Response Sample

```
{
    "code": "SUCCESS",
    "data": "success",
    "msg": "success"
}
```

Request Sample

The request body should be a JSON object containing the following fields:

```
curl -XDELETE
'{{host}}/api/v1/developer/api_server/certificates' \
--H 'Authorization: Bearer wHFmHRuX4I7sB2oDkD6wHg/yg'
```

13. Change Logs

V2.2.6

- Supports user groups and user group policies. (#3.11-#3.22,#10.5-#10.6)
- Supports remote door unlock for Access Ultra (UA-Ultra). (#7.9)

V2.2.10

- Supports webhook API (#11.2-#11.7)
- Supports API server certificates (#12.1-#12.2)