

# 1. Login to get token

Get token (all interfaces need to add token parameter to header)

| Request method | Request URL                 |
|----------------|-----------------------------|
| POST           | ip:port/cloudIntercom/login |

Request parameters (JSON format)

| parameter | Field type | Is it required | Field description |
|-----------|------------|----------------|-------------------|
| userName  | String     | true           | user name         |
| password  | String     | true           | password          |

Return parameter format (JSON format)

| parameter | Field type  | Field description                                                                                                 |
|-----------|-------------|-------------------------------------------------------------------------------------------------------------------|
| code      | String      | Return code 0 succeeded, 1 failed                                                                                 |
| message   | String      | Verification succeeded                                                                                            |
| data      | JSON object | <pre>{   "code": 0,   "msg": "Login successful"   "data": "d7e1786b-7881-4bf7-9344-f7a7a1bd3d4c" // token }</pre> |

## 2. Get device information

All interfaces need to add a token parameter to the header

| Request method | Request URL                                    |
|----------------|------------------------------------------------|
| GET            | ip:port/cloudIntercom/selectGateEquipByQueryVo |

Head header request parameters

| parameter | Is it required | Field type | Field description                                                                                                                 |
|-----------|----------------|------------|-----------------------------------------------------------------------------------------------------------------------------------|
| token     | yes            | string     | header token :<br>For example, the header carries the token parameter<br>httpGet.addHeader( “token” , “d7e1786b-7881-4bf7-9344” ) |

Request parameter JSON

| parameter    | Is it required | Field type | Field description       |
|--------------|----------------|------------|-------------------------|
| deptId       | NO             | string     | Department ID           |
| sn           |                | string     | Equipment number        |
| snName       |                | string     | Equipment name          |
| onlineStatus |                | string     | Equipment status        |
| pageNum      | yes            | Integer    | Current number of pages |

## Return parameter format (JSON format)

| parameter | Field type  | Field description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| code      | String      | Return code 0 succeeded , 1 failed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| message   | String      | Verification succeeded                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| data      | JSON object | <pre>{   "code": 0,   "msg": ("Query successful! ")   "data": [     {       "id": "9c842bb2870a4ddba59f83c3b113f6ab",       "deptId": "9c842bb2870a4ddb292983c3b1100000",       "deptName": "xx",       "softVersion": "1",       "sn": "HGHG652",       "equipName":       "type": "1",       "password": "000000",       "buildNum": "60",       "unitNum": "1",       "ip": "192.168.1.12",       "lineState": "1",       "isBind": "0",       "snapState": "1",       "faceState": "1",       "camerasNumber": 1,       "keypadState": "1",       "newworkType": "1",       "discDuration": 11,       "systemCode": "12345678",       "validateTime": "2020-12-20 20:20:20"     }   ] }</pre> |

### Return Parameter Description:

| parameter     | Field type | Field description                                                               |
|---------------|------------|---------------------------------------------------------------------------------|
| id            | string     | Device ID                                                                       |
| deptId        | string     | Department ID                                                                   |
| deptName      | string     | Department name                                                                 |
| softVersion   | string     | Software version                                                                |
| sn            | string     | Equipment number                                                                |
| equipName     | string     | Equipment name                                                                  |
| password      | string     | password                                                                        |
| buildNum      | string     | Building No                                                                     |
| unitNum       | string     | Building unit number                                                            |
| ip            | string     | IP address                                                                      |
| lineState     | string     | Online status 1 online 0 offline                                                |
| isBind        | string     | Binding state 1 bound 0 unbound                                                 |
| snapState     | string     | Binding state 1 bound 0 unbound snapshot state (- 1-not supported, 1-supported) |
| faceState     | string     | Face open state (- 1-not supported, 1-supported)                                |
| camerasNumber | Integer    | Number of cameras                                                               |
| keypadState   | string     | Key board status (-' 1-no, 1-yes)                                               |
| newworkType   | string     | Network type (0-ethernet, 1-wifi, 2-4G)                                         |
| discDuration  | Integer    | Offline duration                                                                |
| systemCode    | String     | Device temporary password                                                       |
| validateTime  | String     | Temporary password expiration time                                              |

### 3. Employee information query

All interfaces need to add a token parameter to the header for authentication

| Request method | Request URL                                 |
|----------------|---------------------------------------------|
| GET            | ip:port/cloudIntercom/selectPersonByQueryVo |

#### Header request parameters

| parameter | Is it required | Field type | Field description                                                                                                                |
|-----------|----------------|------------|----------------------------------------------------------------------------------------------------------------------------------|
| token     | yes            | string     | header token:<br>For example, the header carries the token parameter<br>httpGet.addHeader( “token” , “d7e1786b-7881-4bf7-9344” ) |

#### Request parameters (JSON format)

| parameter | Is it required | Field type | Field description       |
|-----------|----------------|------------|-------------------------|
| deptId    | NO             | string     | Department ID           |
| pageNum   | yes            | Integer    | Current number of pages |
| pageSize  |                | Integer    | Size per page           |

Request parameters (JSON format) :

| parameter | Field type  | Field description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| code      | String      | Return code 0 succeeded , 1 failed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| message   | String      | Sent successfully                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| data      | JSON object | <pre>{   "code": 0,   "msg": "Query succeeded.",   "data": [     {       "id": "273996a9936740019e766a0cca38237c",       "name":       "sex": "1",       "birth": "1993-03-22",       "idCard": "12313132132132",       "phone": "17673052222",       "emerPer": "ZI",       "emerPhone": "17670545454",       "photoUrl": null,       "cardNum": "33333",       "cardId": "15ad45as1d5s1d5ssad15",       "status": "1",       "onlineState": "1",       "deptId": "XX",       "deptName": "xx"     }   ],   "size": 6,   "pages": 2 }</pre> |

Return Parameter Description:

| parameter | Field type | Field description |
|-----------|------------|-------------------|
| id        | string     | Householder ID    |
| name      | string     | full name         |
| sex       | string     | Gender            |
| birth     | string     | birthday          |
| idCard    | string     | ID                |

|             |         |                                       |
|-------------|---------|---------------------------------------|
| phone       | string  | Telephone                             |
| emerPer     | string  | emergency contact                     |
| emerPhone   | string  | Emergency contact number              |
| photoUrl    | string  | Photo of head of household            |
| cardNum     | string  | Card number                           |
| cardId      | string  | Access card ID                        |
| deptId      | string  | Department ID                         |
| deptName    | string  | Department name                       |
| status      | string  | User status (0 - invalid, 1 - valid)  |
| onlineState | string  | Online status (0-disabled, 1-enabled) |
| job         | string  | post                                  |
| size        | Integer | Total number of current pages         |
| pages       | Integer | PageCount                             |

## 4. Obtain access records (temperature measurement records)

All interfaces need to add a token parameter to the header for authentication

| Request method | Request URL                              |
|----------------|------------------------------------------|
| GET            | ip:port/cloudIntercom/selectAccessRecord |

## Header

### Header header request parameters

| parameter | Is it required | Field type | Field description                                                                                                                              |
|-----------|----------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| token     | yes            | string     | header token :<br>For example, the header carries the token parameter<br><code>httpGet.addHeader( “token” , “d7e1786b-7881-4bf7-9344” )</code> |

### Request parameters (JSON format)

| parameter | Is it required | Field type | Field description |
|-----------|----------------|------------|-------------------|
| startTime | NO             | string     | start time        |
| endTime   |                | string     | End time          |
| arType    |                | string     | data type         |
| passType  |                | string     | Mode of passage   |
| pageNum   | Yes            | integer    | Current page      |
| pageSize  |                | Integer    | Records per page  |
| eqId      | NO             | String     | Device ID         |
| deptId    |                | String     | Department ID     |

### Return parameter format (JSON format)

| parameter | Field type | Field description                 |
|-----------|------------|-----------------------------------|
| code      | String     | Return code 0 succeeded, 1 failed |

|         |        |                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| message | String | query was successful                                                                                                                                                                                                                                                                                                                                                                                          |
| data    | Json   | <pre>{   "code": 0,   "msg": "Query succeeded. ",   "data": [     {       "id": "12345678912345678912345678912312",       "recordTime": "2019-08-09 14:25:09",       "passType": "1",       "sn": "AAA333",       "photoUrl": "1",       "name":       "phone": null,       "arType": "0",       "temperature": "37.5"       "cardNum": "222",       "deptId", "xx",       "deptName", "xx"     }   ] }</pre> |

### Return Parameter Description:

| parameter   | Field type | Field description                                                                                                                                                           |
|-------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id          | string     | Access control record ID                                                                                                                                                    |
| recordTime  | string     | Record the time                                                                                                                                                             |
| passType    | string     | Access mode (1: swipe card, 2: brush face, 3: fingerprint, 4: mobile phone password, 5: mobile app, 6: indoor unit, 7: remote door opening, 8: system password, 9-stranger) |
| sn          | string     | Equipment number                                                                                                                                                            |
| photoUrl    | string     | Photo path                                                                                                                                                                  |
| name        | string     | Name of householder                                                                                                                                                         |
| phone       | string     | Telephone number of householder                                                                                                                                             |
| arType      | string     | Data type, 0-indoor unit, 1-personnel                                                                                                                                       |
| temperature | string     |                                                                                                                                                                             |

|          |        |                 |
|----------|--------|-----------------|
|          |        | temperature     |
| deptId   | string | Department ID   |
| deptName | string | Department name |
| cardNum  | string | Card number     |

## 5

### Personnel addition

Personnel adding steps (for parameters that cannot be found, please refer to the interface guide in the "field description" column)

#### 5.1

#### adding personnel

**All interfaces need to add a token parameter to the header header for authentication**

| Request method | Request URL                        |
|----------------|------------------------------------|
| POST           | ip:port/cloudIntercom/insertPerson |

#### Header

#### Header request parameters

| parameter | Is it required | Field type | Field description |
|-----------|----------------|------------|-------------------|
|-----------|----------------|------------|-------------------|

|       |     |        |                                                                                                                                   |
|-------|-----|--------|-----------------------------------------------------------------------------------------------------------------------------------|
| token | yes | string | header token :<br>For example, the header carries the token parameter<br>httpGet.addHeader( “token” , “d7e1786b-7881-4bf7-9344” ) |
|-------|-----|--------|-----------------------------------------------------------------------------------------------------------------------------------|

### Request parameters (JSON format)

| parameter | Is it required | Field type | Field description                                                            |
|-----------|----------------|------------|------------------------------------------------------------------------------|
| deptId    | yes            | string     | Department ID, required, obtained through 5.2 query Department API interface |
| cardId    | no             | string     | Card ID                                                                      |
| name      | yes            | string     | Name of householder                                                          |
| sex       | no             | string     | Gender (0: female 1: male)                                                   |
| birth     |                | string     | birthday                                                                     |
| idCard    |                | string     | ID card No                                                                   |
| phone     | yes            | string     | cell-phone number                                                            |
| emerPer   | no             | string     | emergency contact                                                            |
| emerPhone |                | string     | Emergency contact number                                                     |
| job       |                | string     | post                                                                         |

### Return parameter format (JSON format)

| parameter | Field type | Field description                 |
|-----------|------------|-----------------------------------|
| code      | String     | Return code 0 succeeded, 1 failed |

|      |             |                                                                           |
|------|-------------|---------------------------------------------------------------------------|
| msg  | String      | Error or success return message prompt, for example: "save successfully"  |
| data | JSON object | <pre>{   "code": 0,   "msg": "Saved successfully! ",   "data": "" }</pre> |

## 5.2 query Department tree

### header token

**All interfaces need to add a token parameter to the header for authentication**

| Request method | Request URL                                |
|----------------|--------------------------------------------|
| GET            | ip:port/cloudIntercom/selectDepartmentTree |

### Header

#### Header request parameters

| parameter | Is it required | Field type | Field description                                                                                                                            |
|-----------|----------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| token     | yes            | string     | header token :<br>For example, the header carries the token parameter<br><pre>httpGet.addHeader( "token" , "d7e1786b-7881-4bf7-9344" )</pre> |

#### Request parameters (JSON format)

| parameter | Is it required | Field type | Field description |
|-----------|----------------|------------|-------------------|
| nothing   |                |            |                   |

Return parameter format (JSON format) :

| parameter | Field type | Field description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| code      | String     | Return code 0 succeeded, 1 failed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| message   | String     | Query return, example: The query is successful!                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| data      | JsonObject | <p>Note: if the returned result is empty list, please use 5.3 add Department API to add it. After successful addition, call this API again to query department information</p> <pre>{  "code": 0,  "msg": "The query is successful! ",  "data": [    {      "address": "Test Company",      "children": [        {          "address": "11",          "children": [],          "dataType": "2",          "icon": "../src/style/images/bumen.png",          "id": "046924517fed4597965907b9f1f23eb2",          "title": "1234567890 (1)"        }      ]    },    {      "dataType": "1",      "icon": "../src/style/images/gongsi.png",      "id": "7958a14fd3934d458f937787a2609775",      "title": "123 (11)"    }  ]}</pre> |

Return Parameter Description:

| parameter | Field type | Field description                            |
|-----------|------------|----------------------------------------------|
| id        | string     | Department ID                                |
| title     | string     | Department name                              |
| parentId  | string     | Parent ID, the ID of the superior department |

|          |           |                                               |
|----------|-----------|-----------------------------------------------|
| dataType | string    | Node type, e.g. 1:1 level node 2:2 level node |
| children | JSONArray | Child node array                              |
| icon     | String    | Ignore this field                             |
| address  | String    | Department address                            |

## 5.3

### add Department

#### header token

All interfaces need to add a token parameter to the header header for authentication

| Request method | Request URL                            |
|----------------|----------------------------------------|
| POST           | ip:port/cloudIntercom/insertDepartment |

#### Header

#### Header header request parameters

| parameter | Is it required | Field type | Field description                                                                                                                 |
|-----------|----------------|------------|-----------------------------------------------------------------------------------------------------------------------------------|
| token     | yes            | string     | header token :<br>For example, the header carries the token parameter<br>httpGet.addHeader( “token” , “d7e1786b-7881-4bf7-9344” ) |

#### Request parameters (JSON format)

| parameter | Is it required | Field type | Field description |
|-----------|----------------|------------|-------------------|
| deptName  | yes            | string     | Department name   |

|          |     |        |                                                                                                                                                                                 |
|----------|-----|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| dataType | yes | string | Node type: 1: head node (usually company name)<br>2: lower level node (usually department name),<br>and so on                                                                   |
| address  | no  | string | address                                                                                                                                                                         |
| parentId | yes | string | For parent ID, please pass "- 1" to level 1 node<br>when adding it for the first time, and pass the<br>Department ID of level 1 to create level 2 node<br>department, and so on |

### Return parameter format (JSON format)

| parameter | Field type | Field description                                                        |
|-----------|------------|--------------------------------------------------------------------------|
| code      | String     | Return code 0 succeeded, 1 failed                                        |
| msg       | String     | Error or success return message prompt, for example: "save successfully" |
| data      | JsonObject | <pre>{   "code": 0,   "msg": "!",   "data": "" }</pre>                   |

## 6. Add face

Add face steps (for parameters that cannot be found, please refer to the interface guide in the "field description" column)

## 6.1 Add face

### header token

All interfaces need to add a token parameter to the header header for authentication

| Request method | Request URL                          |
|----------------|--------------------------------------|
| POST           | ip:port/cloudIntercom/insertFaceFile |

### Header

Header header request parameters

| parameter | Is it required | Field type | Field description                                                                                                                             |
|-----------|----------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| token     | yes            | string     | header token:<br>For example, the header carries the token parameter<br><code>httpGet.addHeader( "token" , "d7e1786b-7881-4bf7-9344" )</code> |

Header header carries token parameter example: request parameter (JSON format)

| parameter | Is it required | Field type | Field description                                                         |
|-----------|----------------|------------|---------------------------------------------------------------------------|
| perId     | yes            | string     | Please obtain the personnel ID through the 6.2 query personnel list API   |
| files     |                | binary     | file                                                                      |
| angle     |                | string     | Picture rotation angle example: 90 does not need to rotate, please pass 0 |

## Return parameter format (JSON format)

| parameter | Field type | Field description                                                             |
|-----------|------------|-------------------------------------------------------------------------------|
| code      | String     | Parameter return code 0 succeeded, 1 failed                                   |
| msg       | String     | Error or success return message prompt, for example: "save successfully"      |
| data      | JsonObject | <pre>{   "code": 0,   "msg": "!", "Saved successfully! "   "data": "" }</pre> |

## 6.2 query personnel (employee) list

### header token

All interfaces need to add a token parameter to the header header for authentication

| Request method | Request URL                                 |
|----------------|---------------------------------------------|
| POST           | ip:port/cloudIntercom/selectPersonByQueryVo |

### Header

Header header request parameters

| parameter | Is it required | Field type | Field description                                                                                                                 |
|-----------|----------------|------------|-----------------------------------------------------------------------------------------------------------------------------------|
| token     | Yes            | string     | header token :<br>For example, the header carries the token parameter<br>httpGet.addHeader( "token" , "d7e1786b-7881-4bf7-9344" ) |

## Request parameters (JSON format)

| parameter | Is it required | Field type | Field description            |
|-----------|----------------|------------|------------------------------|
| deptId    | no             | string     | Department ID                |
| pageNum   | yes            | Int        | Current page number 2        |
| pageSize  |                | Int        | Display quantity per page 20 |

Return parameter format (JSON format)

| parameter | Field type | Field description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| code      | String     | Return code 0 succeeded, 1 failed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| msg       | String     | Error or success return message prompt, for example: "save successfully"                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| data      | JsonObject | <pre>{   "code": 0,   "msg": "Query succeeded.",   "data": [     {       "id": "273996a9936740019e766a0cca38237c",       "name": "",       "sex": "1",       "birth": "1993-03-22",       "idCard": "12313132132132",       "phone": "17673052222",       "emerPer": "ZI",       "emerPhone": "17670545454",       "photoUrl": null,       "cardNum": "33333",       "cardId": "15ad45as1d5s1d5ssad15",       "status": "1",       "onlineState": "1",       "deptId": "XX",       "deptName": "xx"     }   ],   "size": 20,   "pages": 2 }</pre> |

### Return Parameter Description:

| parameter   | Field type | Field description                     |
|-------------|------------|---------------------------------------|
| id          | string     | Personnel (employee) id               |
| name        | string     | full name                             |
| sex         | string     | Gender                                |
| birth       | string     | birthday                              |
| idCard      | string     | ID                                    |
| phone       | string     | Telephone                             |
| emerPer     | string     | emergency contact                     |
| emerPhone   | string     | Emergency contact number              |
| photoUrl    | string     | Photo of head of household            |
| cardNum     | string     | Card number                           |
| cardId      | string     | Access card ID                        |
| deptId      | string     | Department ID                         |
| deptName    | string     | Department name                       |
| status      | string     | User status (0 - invalid, 1 - valid)  |
| onlineState | string     | Online status (0-disabled, 1-enabled) |
| job         | string     | post                                  |
| size        | Integer    | Total number of current pages         |
| pages       | Integer    | PageCount                             |

## 7. Add access records

| Request method | Request URL                                  |
|----------------|----------------------------------------------|
| POST           | ip:port/cloudIntercom/api/insertAccessRecord |

### Request parameters (JSON format)

| parameter   | Is it required | Field type | Field description                                                                                                                                                                         |
|-------------|----------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| recordTime  | yes            | String     | Record time: 17:24:05 , January 2 , 2020                                                                                                                                                  |
| passType    |                | String     | Access mode (1: swipe card, 2: brush face, 3: fingerprint, 4: mobile phone password, 5: mobile app, 6: indoor unit, 7: remote door opening, 8: system password, 9: stranger, 10 visitors) |
| gateEquipId |                | String     | Device ID 7.1 interface API acquisition                                                                                                                                                   |
| phone       |                | String     | Personnel telephone                                                                                                                                                                       |
| fileList    |                | binary     | Temperature measurement face file                                                                                                                                                         |
| validCode   |                | String     | Except for 4, 8 and 9, the access mode is saved with personnel ID 7 2 interface API                                                                                                       |
| temperature |                | String     | temperature                                                                                                                                                                               |
| isFever     |                | String     | Is the fever 0 normal 1 fever                                                                                                                                                             |

## Return parameter format (JSON format)

| parameter | Field type | Field description                                                               |
|-----------|------------|---------------------------------------------------------------------------------|
| code      | String     | Return code 0 succeeded, 1 failed                                               |
| msg       | String     | Error or success return message prompt , for example: "save successfully"       |
| data      | JsonObject | <pre>{   "code": 0,   "msg": " ! ", "Saved successfully! "   "data": "" }</pre> |

## 7.1

### query equipment information according to equipment number

| Request method | Request URL                                   |
|----------------|-----------------------------------------------|
| POST           | ip:port/cloudIntercom/api/selectGateEquipBySn |

## Request parameters (JSON format)

| parameter | Is it required | Field type | Field description                         |
|-----------|----------------|------------|-------------------------------------------|
| sn        | yes            | String     | Equipment MAC / equipment No 301f9a905445 |

## Return parameter format (JSON format)

| parameter | Field type | Field description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| code      | String     | Return code 0 succeeded, 1 failed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| msg       | String     | Error or success return message prompt, for example: "query succeeded"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| data      | JsonObject | <pre>{   "code": 0,   "msg": " ! ", "Query successful! "   "data": [     {       "id": "9c842bb2870a4ddba59f83c3b113f6ab",       "softVersion": "1",       "sn": "HGHGHG652",       "equipName": "111",       "type": "1",       "password": "000000",       "ip": "192.168.1.12",       "token": null,       "createUserId": "1",       "createTime": "2019-08-08 13:34:52",       "updateTime": "2019-08-08 13:38:47",       "status": "1",       "imUserId": "x2txttTT",       "imToken":         "ZnqZmteK4WT1dad/R9XB87U/66tAfH14y8p7YqT+7544Nz4yDVD",       "appId": "xxxx",       "systemCode": "12345678",       "validateTime": "2020-12-12 12:12:12",       "temperature": "37.5",       "deptId": "xx",       "deptName": "xx"     }   ] }</pre> |

## Return Parameter Description:

| parameter   | Field type | Field description |
|-------------|------------|-------------------|
| id          | string     | Device ID         |
| softVersion | string     | Software version  |
| sn          | string     | Equipment number  |

|              |        |                                    |
|--------------|--------|------------------------------------|
| equipName    | string | Equipment name                     |
| type         | string | Equipment type                     |
| password     | string | password                           |
| ip           | string | IP address                         |
| token        | string | token                              |
| createUserId | string | Founder                            |
| createTime   | string | Creation time                      |
| updateTime   | string | Modification time                  |
| status       | string | Modification time                  |
| imUserId     | string | The im interface returns userid    |
| imToken      | string | Im interface returns token         |
| appId        | string | appId                              |
| systemCode   | string | Device temporary password          |
| validateTime | string | Temporary password expiration time |
| temperature  | string | temperature                        |
| deptId       | string | Company ID                         |
| deptName     | string | corporate name                     |

## 7.2

query personnel information according to equipment number

| Request method | Request URL                                    |
|----------------|------------------------------------------------|
| POST           | ip:port/cloudIntercom/api/selectBindPersonBySn |

### Request parameters (JSON format)

| parameter | Is it required | Field type | Field description                         |
|-----------|----------------|------------|-------------------------------------------|
| sn        | yes            | String     | Equipment MAC / equipment No 301f9a905445 |

### Return parameter format (JSON format)

| parameter | Field type | Field description                                                                                                                                                                                                                                                                                                                                                                    |
|-----------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| code      | String     | Return code 0 succeeded , 1 failed                                                                                                                                                                                                                                                                                                                                                   |
| msg       | String     | Error or success return message prompt, for example: "query succeeded"                                                                                                                                                                                                                                                                                                               |
| data      | JsonObject | <pre>{   "code": 0,   "msg": "! ", "Related equipment query successful! "   "data": [     {       "perId": "",       "name": "",       "phone": "",       "photoUrl": "",       "cardNum": "",       "fiUrl": "",       "imUserId": "103",       "imToken": "103",       "personType": "1",       "validateTime": "",       "deptId": "xx",       "deptName": "xx"     }   ] }</pre> |

### Return Parameter Description:

| parameter | Field type | Field description    |
|-----------|------------|----------------------|
| perId     | string     | Person / employee ID |
| name      | string     | full name            |

|              |        |                                           |
|--------------|--------|-------------------------------------------|
| phone        | string | mobile phone                              |
| photoUrl     | string | Face path                                 |
| cardNum      | string | Card number                               |
| fiUrl        | string | Fingerprint path                          |
| imUserId     | string | Im interface registration returns userid  |
| imToken      | string | Im interface registration returns imtoken |
| personType   | string | Type of personnel (1-person, 2-visitor)   |
| validateTime | string | Face picture expiration time              |
| deptId       | string | Department ID                             |
| deptName     | string | Department name                           |

## 8. Original clock in record

### header token

All interfaces need to add a token parameter to the header header for authentication

| Request method | Request URL                                  |
|----------------|----------------------------------------------|
| POST           | ip:port/cloudIntercom/selectPageOrigSignInfo |

## Request parameters (JSON format)

| parameter | Is it required | Field type | Field description                           |
|-----------|----------------|------------|---------------------------------------------|
| startDate | yes            | String     | Start date example "2020-06-01"             |
| empId     | no             | String     | Employee ID                                 |
| deptId    |                | String     | Department ID 7.1 interface API acquisition |
| pageNum   |                | Int        | Page number (default is 1)                  |
| pageSize  |                | Int        | Quantity per page (default 20)              |
| endDate   | yes            | String     | End date example "2020-06-01"               |

## Return parameter format (JSON format)

| parameter | Field type | Field description                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| code      | String     | Return code 0 succeeded, 1 failed                                                                                                                                                                                                                                                                                                                                                                                                                          |
| msg       | String     | Error or success return message prompt, for example: "query succeeded"                                                                                                                                                                                                                                                                                                                                                                                     |
| data      | JsonObject | <pre>{   "code": 0,   "msg": "Query successfully!",   "data": {     "totalNum": 28,     "totalPage": 2,     "pageSize": 20,     "list": [       {         "empId": "4ed88f25ccec49899e4738522ae40100",         "deptName": " ",         "signResult": "late",         "signTime": "2020-06-15 19:30",         "empName": "xya",         "realSignTime": "2020-06-15 19:06",         "duty": "",         "signDate": "2020-06-15"       }     ]   } }</pre> |

|  |  |                                                |
|--|--|------------------------------------------------|
|  |  | <pre>    }     ],     "pageNum": 1   } }</pre> |
|--|--|------------------------------------------------|

Return Parameter Description:

| parameter    | Field type | Field description        |
|--------------|------------|--------------------------|
| totalNum     | int        | Total number of articles |
| totalPage    | int        | PageCount                |
| pageSize     | int        | Number of items per page |
| empId        | string     | Employee ID              |
| deptName     | string     | Department name          |
| signResult   | string     | Clock out results        |
| signTime     | string     | Clock in time            |
| empName      | string     | Employee name            |
| realSignTime | string     | Actual clock in time     |
| duty         | string     | position                 |
| signDate     | string     | Punch in date            |
| pageNum      | int        | Current page number      |

## 9. Daily clock out statistics

### header token

All interfaces need to add a token parameter to the header header for authentication

| Request method | Request URL                                        |
|----------------|----------------------------------------------------|
| POST           | ip:port/cloudIntercom/selectPageDayAttendCalculate |

### Request parameters (JSON format)

| parameter | Is it required | Field type | Field description                           |
|-----------|----------------|------------|---------------------------------------------|
| startDate | Yes            | String     | Start date example "2020-06-01"             |
| empId     | no             | String     | Employee ID                                 |
| deptId    |                | String     | Department ID 7.1 interface API acquisition |
| pageNum   |                | Int        | Page number (default is 1)                  |
| pageSize  |                | Int        | Quantity per page (default 20)              |
| endDate   | yes            | String     | End date example "2020-06-01"               |
| name      | no             | String     | Employee name                               |

## Return parameter format (JSON format)

| parameter | Field type | Field description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| code      | String     | Return code 0 succeeded, 1 failed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| msg       | String     | Error or success return message prompt, for example: "query succeeded"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| data      | JsonObject | <pre>{   "code": 0,   "msg": "Query successfully!",   "data": {     "totalNum": 2,     "totalPage": 1,     "pageSize": 10,     "list": [       {         "dateDetail": "2020-06-15 Monday",         "empName": "xya",         "deptName": "",         "workOn1": {           "signResult": "#FFF000",           "signTime": "missing sign"         },         "workOn2": {           "signResult": "#FFF000",           "signTime": "missing sign"         },         "workOn3": {           "signResult": "#FFF000",           "signTime": "missing sign"         },         "workOff1": {           "signResult": "#FFF000",           "signTime": "missing sign"         },         "workOff2": {           "signResult": "#FFF000",           "signTime": "missing sign"         },         "workOff3": {           "signResult": "transparent",           "signTime": "19:39"         },         "attend": "08:30-12:00&lt;br /&gt;13:30-17:30&lt;br /&gt;18:30-19:30",         "attendGroup": ""       }     ],     "pageNum": 1   } }</pre> |

### Return Parameter Description:

| parameter   | Field type | Field description                     |
|-------------|------------|---------------------------------------|
| totalNum    | int        | Total number of articles              |
| totalPage   | int        | PageCount                             |
| pageSize    | int        | Number of items per page              |
| dateDetail  | string     | Date details                          |
| deptName    | string     | Department name                       |
| workOn1     | Object     | Clock in details of the first shift   |
| workOn2     | Object     | Clock in details of the second shift  |
| workOn3     | Object     | Clock in details of the third shift   |
| workOff1    | Object     | Clock out details of the first shift  |
| workOff2    | Object     | Clock out details of the second shift |
| workOff3    | Object     | Clock out details of the third shift  |
| signResult  | string     | Clock out results                     |
| signTime    | string     | Missing sign                          |
| empName     | string     | Employee name                         |
| attend      | string     | Attendance rules                      |
| attendGroup | string     | Attendance group                      |
| pageNum     | int        | Current page number                   |

## 10. Monthly punch out statistics

### header token

All interfaces need to add a token parameter to the header header for authentication

| Request method | Request URL                                        |
|----------------|----------------------------------------------------|
| POST           | ip:port/cloudIntercom/selectPageDayAttendCalculate |

|  |  |
|--|--|
|  |  |
|--|--|

### Request parameters (JSON format)

| parameter | Is it required | Field type | Field description                           |
|-----------|----------------|------------|---------------------------------------------|
| startDate | yes            | String     | Start date example "2020-06-01"             |
| empId     | no             | String     | Employee ID                                 |
| deptId    |                | String     | Department ID 7.1 interface API acquisition |
| pageNum   |                | Int        | Page number (default is 1)                  |
| pageSize  |                | Int        | Quantity per page (default 20)              |
| endDate   | yes            | String     | End date example "2020-06-01"               |
| name      | no             | String     | Employee name                               |

## Return parameter format (JSON format)

| parameter | Field type | Field description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| code      | String     | Return code 0 succeeded, 1 failed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| msg       | String     | Error or success return message prompt, for example: "query succeeded"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| data      | JsonObject | <pre>{   "code": 0,   "msg": "Query successfully!",   "data": {     "totalNum": 5,     "pageSize": 10,     "attendDetail": [       {         "emplId": "4ff8345bdb9147eb9f86c8e4b95cc4db",         "signDate": "2020-06-01",         "overtimeNum": 0,         "overtimeTimes": 0.00,         "delayNum": 0,         "delayTimes": 0.00,         "earlyNum": 0,         "earlyTimes": 0.00,         "workTimes": 0.00,         "missSign": "0",         "signInMiss": 0,         "signOutMiss": 0,         "isAbsenteeism": 1,         "name": " ",         "deptName": " ",         "day": null,         "isRest": null,         "isAttendGroup": null,         "delayAttend": null,         "earlyAttend": null,         "signInMissAttend": null,         "signOutMissAttend": null       }     ],     "pageNum": 1   } }</pre> |

## Return Parameter Description:

| parameter | Field type | Field description |
|-----------|------------|-------------------|
| totalNum  | int        |                   |

|               |        |                                   |
|---------------|--------|-----------------------------------|
|               |        | Total number of articles          |
| totalPage     | int    | PageCount                         |
| pageSize      | int    | Number of items per page          |
| empld         | string | Date details                      |
| overtimeNum   | Int    | Number of overtime                |
| overtimeTimes | string | Overtime hours                    |
| delayNum      | Int    | Number of lateness                |
| delayTimes    | string | Length of lateness                |
| earlyNum      | Int    | Number of early leave             |
| earlyTimes    | string | Length of early leave             |
| workTimes     | string | Attendance hours                  |
| missSign      | Int    | Times of card shortage            |
| signInMiss    | Int    | Times of card shortage            |
| signOutMiss   | Int    | Times of card shortage after work |
| isAbsenteeism | Int    | Absenteeism times                 |
| name          | string | Employee name                     |
| deptName      | int    | Department name                   |
| isRest        | Int    | Number of breaks                  |
| pageNum       | Int    |                                   |