User Interface

User Login (Login with device series number)

- Interface Description: User logs in and gets a token
- Interface Category: User relevance
- Interface Version: 1.0
- Interface Address: /user/v1.0/login.action
- HTTP Method: GET
- Interface Parameter:
  - sn - user serial number
  - userPwd - password
  
  *Password needs to be encrypted with MD5 and converted to uppercase

E.g.:
HTTP Request:
http://sdk.kincony.com:8080/smarthome.IMCPlatform/user/v1.0/loginByPhone.action?sn=15148248415&userPwd=XXXXXXXX

Interface Return:
```json
{
  "message": "User login successfully",
}
User Login (Login with user mobile number)

- Interface Description: User logs in and gets a token
- Interface Category: User relevance
- Interface Version: 1.0
- Interface Address: /user/v1.0/loginByPhone.action
- HTTP Method: GET
- Interface Parameter:
  - phone - user mobile number
  - userPwd - password

E.g.:
HTTP Request:
http://sdk.kincony.com:8080/smarthome.IMCPlatform/user/v1.0/login.action?sn=12345678901123&userPwd=123456

Interface Return:
{
  "message": "User login successfully",
  "result": {
    "accessToken": "hjtD53YteaBZ3rWkiiQrng==",
    "authorizationUserCode": null,
    "phoneType": null,
    "userAddr": null,
    "userAge": null,
    "userCode": "12345678901123",
    "userEmail": null,
    "userId": 1470,
    "userName": "",
    "userPhone": null,
    "userSex": null
  },
  "status": "0"
}
"userCode": "12345678901123",
"userEmail": null,
"userId": 1470,
"userName": "",
"userPhone": null,
"userSex": null
},
"status": "0"
}

Geographic Location Information Interface

Floor Acquisition

- Interface Description: user relevant floor information acquisition
- Interface Category: floor room relevant
- Interface Version: 1.0
- Interface Address: /construct/v1.0/fetchFloors.action
- Interface Parameter:
  N/A

E.g.:
HTTP Request:
http://sdk.kincony.com:8080/smarthome.IMCPlatform/construct/v1.0/fetchFloors.action

Interface Return:
{
  "message": "Fetch floors success.",
  "result": [
    {
      "floorAlias": "Floor One",
      "floorCode": "e3bffe1d11ce4be6929e04b7e425fa12"
    },
    {
      "floorAlias": "Floor Two",
      "floorCode": "b287a25afab441b58d37fb3e20e9b1cb"
    },
    {
      "floorAlias": "Floor Three",
      "floorCode": "fd7b85c592a3408db416e8e953b2e8c1"
  ]
}
Room Acquisition

- Interface Description: user relevant room information acquisition
- Interface Category: floor room relevant
- Interface Version: 1.0
- Interface Address: /construct/v1.0/fetchRooms.action
- Interface Parameter:
  - floorCode - floor code (when the parameter is not provided, the interface will return to all the rooms of the current user)

E.g.:
HTTP Request:

Interface Return:
{
  "message": "Fetch rooms success.",
  "result": [
    {
      "floorAlias": "Floor One",
      "floorCode": "e3bffe1d11ce4be6929e04b7e425fa12",
      "roomAlias": "Living Room",
      "roomCode": "559754e5e77846f9b44b31d1ed4cc2f2"
    },
    {
      "floorAlias": "Floor One",
      "floorCode": "e3bffe1d11ce4be6929e04b7e425fa12",
      "roomAlias": "Public",
      "roomCode": "0b75afc40fa24c729d21053d84ef8cce"
    }
  ]
}
Device Interface

Devices Acquisition

- Interface Description: Devices information of the specified room acquisition
- Interface Category: Devices relevant
- Interface Version: 1.0
- Interface Address: /device/v1.0/fetchDevices.action
- Interface Parameter:
  - roomCode - Room code

E.g.:
HTTP Request:
http://sdk.kincony.com:8080/smarthome.IMCPlatform/device/v1.0/fetchDevices.action?roomCode=683e4f74a48a4b40bf7acced6478f58

Interface Return:
{
  "message": "Fetch user devices success.",
  "result": [
    {
      "deviceAddress": "611811",
      "deviceAlias": "Living Room Light",
      "deviceType": "ZB-ST",
      "state": "0",
      "operations": []
    }
  ]
}
"name": "Open"
},
{
"code": "0",
"name": "Close"
}
],
"roomCode": "92a1516aee9747ce937f9852f5f2f05a",
"hostCode": "fca1516ae2dk82kd02kld8852f5fdf832"
},
{
"deviceAddress": "611812",
"deviceAlias": "Bedroom Light",
"deviceType": "ZB-ST",
"state": "1",
"operations": [
{
"code": "1",
"name": "Open"
},
{
"code": "0",
"name": "Close"
}
],
"roomCode": "92a1516aee9747ce937f9852f5f2f05a",
"hostCode": "fca1516ae2dk82kd02kld8852f5fdf832"
},
{
"deviceAddress": "23964",
"deviceAlias": "Air-condition",
"deviceType": "ZB-IF",
"state": "0",
"operations": [
{
"code": "106",
"name": "Open"
},
{
"code": "107",
"name": "Close"
}
]
{
    "code": "110",
    "name": "Cool 16°"
},
{
    "code": "111",
    "name": "Cool 17°"
},
{
    "code": "112",
    "name": "Cool 18°"
},
{
    "code": "113",
    "name": "Cool 19°"
},
{
    "code": "114",
    "name": "Cool 20°"
},
{
    "code": "115",
    "name": "Cool 21°"
},
{
    "code": "116",
    "name": "Cool 22°"
},
{
    "code": "117",
    "name": "Cool 23°"
},
{
    "code": "118",
    "name": "Cool 24°"
},
{
    "code": "119",
    "name": "Cool 25°"
},
{
    "code": "120"
"name": "Cool 26°",
},
{
"code": "121",
"name": "Cool 27°",
},
{
"code": "122",
"name": "Cool 28°",
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"name": "Cool 29°",
},
{
"code": "124",
"name": "Cool 30°",
},
{
"code": "125",
"name": "Heat 16°",
},
{
"code": "126",
"name": "Heat 17°",
},
{
"code": "127",
"name": "Heat 18°",
},
{
"code": "128",
"name": "Heat 19°",
},
{
"code": "129",
"name": "Heat 20°",
},
{
"code": "130",
"name": "Heat 21°"}
"deviceAlias": "Curtain",
"deviceType": "ZB-CT",
"state": "0",
"operations": [ 
  {
    "code": "1",
    "name": "Open"
  },
  {
    "code": "0",
    "name": "Close"
  },
  {
    "code": "2",
    "name": "Stop"
  }
],
"roomCode": "92a1516aee9747ce937f9852f5f05a",
"hostCode": "fca1516ae2d82kld8852f5fd832"
},
{
  "deviceAddress": "93190560",
  "deviceAlias": "Ceiling Light",
  "deviceType": "RF-2262-315-33-ST",
  "state": "1",
  "operations": [ 
    {
      "code": "1",
      "name": "Open"
    },
    {
      "code": "2",
      "name": "Close"
    }
  ],
  "roomCode": "92a1516aee9747ce937f9852f5f05a",
  "hostCode": "fca1516ae2d82kld8852f5fd832"
},
{
  "deviceAddress": "80049795",
  "deviceAlias": "DuYa Electric Motor",
  "deviceType": "RF-DYDJ-433-33-CT",
"state": "50",
"operations": [
  {
    "code": "1",
    "name": "Open"
  },
  {
    "code": "2",
    "name": "Close"
  },
  {
    "code": "3",
    "name": "Stop"
  }
],
"roomCode": "92a1516aee9747ce937f9852f5f2f05a",
"hostCode": "fca1516ae2dk82kd02kld8852f5fd832"
},
{
  "deviceAddress": "70275382",
  "deviceAlias": "Intelligent Door Lock",
  "deviceType": "RF-ZNMS-315-33-LK",
  "state": "0",
  "operations": [
    {
      "code": "1",
      "name": "Open"
    },
    {
      "code": "2",
      "name": "Close"
    }
  ],
  "roomCode": "92a1516aee9747ce937f9852f5f2f05a",
  "hostCode": "fca1516ae2dk82kd02kld8852f5fd832"
},
{
  "deviceAddress": "94925735",
  "deviceAlias": "RF Curtain",
  "deviceType": "RF-2262-315-33-CT",
  "state": "100",
  "operations": [

{ "code": "1", "name": "Open" },
{ "code": "2", "name": "Close" },
{ "code": "3", "name": "Stop" },
"roomCode": "92a1516ae9747ce937f9852f5f2f05a", "hostCode": "fca1516ae2dk82kd02kld8852f5fdf832"
},
{ "deviceAddress": "21806269", "deviceAlias": "433 Curtain", "deviceType": "RF-2262-433-33-CT", "state": "0", "operations": [
{ "code": "1", "name": "Open" },
{ "code": "2", "name": "Close" },
{ "code": "3", "name": "Stop" }
],
"roomCode": "92a1516ae9747ce937f9852f5f2f05a", "hostCode": "fca1516ae2dk82kd02kld8852f5fdf832"
},
{ "deviceAddress": "96213572", "deviceAlias": "433 RF Light", "deviceType": "RF-2262-433-33-ST", "roomCode": "92a1516ae9747ce937f9852f5f2f05a", "hostCode": "fca1516ae2dk82kd02kld8852f5fdf832" },
"state": "0",
"operations": [
    {
        "code": "1",
        "name": "Open"
    },
    {
        "code": "2",
        "name": "Close"
    }
],
"roomCode": "92a1516ae9747ce937f9852f5f2f05a",
"hostCode": "fca1516ae2dk82kd02kld8852f5fdf832"
],
"status": "0"
}

Device Controlling

- Interface Description: Device Controlling
- Interface Category: Device Relevant
- Interface Version: 1.0
- Interface Address: /device/v1.0/control.action
- Interface Parameter:
  - hostCode - host serial number
  - addressCode - device address number
  - state - state

E.g.:
HTTP Request:
http://sdk.kincony.com:8080/smarthome.IMCPlatform/device/v1.0/control.action?hostCode=ec99651539d1b09cd1251ee2&addressCode=111282&state=1

Interface Return:
{
    "message": "Control device succeed",
    "result": {
        "deviceAddress": "111282",
    }
}
{"deviceAlias": "Bidirectional Light", "state": "1" },
"status": "0" }

Scene Acquisition

- Interface Description: User Scene Acquisition
- Interface Category: Scene Relevant
- Interface Version: 1.0
- Interface Address: /scene/v1.0/fetchUserScenes.action
- Interface Parameter: N/A

E.g.:
HTTP Request:
http://sdk.kincony.com:8080/smarthome.IMCPlatform/scene/v1.0/fetchUserScenes.action

Interface Return:
{
"message": "Fetch user scenes succeed",
"result": [
    {
        "sceneCode": "K7I1P8", "sceneAlias": "Home"},
    {
        "sceneCode": "JFJT8S", "sceneAlias": "Security"}
  ],
"status": "0"
}

Scene Trigger

- Interface Description: Scene Mode Trigger
- Interface Category: Scene Relevant
- Interface Version: 1.0
- Interface Address: /scene/v1.0/triggerScene.action
- Interface Parameter: Scene Number

E.g.:
HTTP Request:

Interface Return:
{
    "message": "Scene is triggered",
    "result": {
        "sceneCode": "253GLK",
        "sceneAlias": "Leave and no back",
        "status": "0"
    }
}

Command Transmission

- Interface description: device command transmission
- Interface category: device related
- Interface version: 1.0
- Interface address: /device/v1.0/sendCommand.action
- Interface parameter:
  - deviceCode - device host series number
  - command - transmission instruction

E.g:
HTTP request:

Interface return:
{
    "message": "Command: RELAY-GET_INPUT-1 was sent to device: ec99651539d1b09cd1251ee2 successfully.",
    "result": "RELAY-GET_INPUT-1,29.0,OK\u0000",
    "status": "0"
}

Appendix:
### Error coding:

<table>
<thead>
<tr>
<th>Error code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Successful Operation</td>
</tr>
<tr>
<td>100</td>
<td>Failure login</td>
</tr>
<tr>
<td>801</td>
<td>Start time not specified</td>
</tr>
<tr>
<td>802</td>
<td>End time less than start time</td>
</tr>
<tr>
<td>803</td>
<td>Wrong number of arguments or parameter values</td>
</tr>
<tr>
<td>808</td>
<td>Room not exist</td>
</tr>
<tr>
<td>809</td>
<td>Access Token not specified</td>
</tr>
</tbody>
</table>