

KinCony Smart Home Controlling System Public Interface Instruction

(V20190109)

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User Interface

User Login (Login with user serial 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:

```
{  
  "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"
}
```

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"
}
```

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"
    }
]
```

```

    },
    {
      "floorAlias": "Basement",
      "floorCode": "5f3200fe83f2490e9e7f4535e3f21eb1"
    }
  ],
  "status": "0"
}

```

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:

<http://sdk.kincony.com:8080/smarthome.IMCPlatform/construct/v1.0/fetchRooms.action?floorCode=94b21d6213ff4537af26041947f655a2>

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"
    }
  ]
}

```

```
    },
    {
      "floorAlias": "Floor Two",
      "floorCode": "b287a25afab441b58d37fb3e20e9b1cb",
      "roomAlias": "Son's Room",
      "roomCode": "a1f1a1f2f9ee4ba1b0bbe2c163c72cb5"
    },
  ],
  "status": "0"
}
```

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=683e4f74a48a4b40bf7accedc6478f58>

Interface Return:

```
{
  "message": "Fetch user devices success.",
  "result": [
    {
      "deviceAddress": "611811",
      "deviceAlias": "Living Room Light",
      "deviceType": "ZB-ST",
      "state": "0",
      "operations": [
        {
          "code": "1",
```

```
"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°"  
  },  
  {  
"code": "123",  
"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°"  
  },  
  }
```



```
{
  "code": "131",
  "name": " Heat 22°"
},
{
  "code": "132",
  "name": " Heat 23°"
},
{
  "code": "133",
  "name": " Heat 24°"
},
{
  "code": "134",
  "name": " Heat 25°"
},
{
  "code": "135",
  "name": " Heat 26°"
},
{
  "code": "136",
  "name": " Heat 27°"
},
{
  "code": "137",
  "name": " Heat 28°"
},
{
  "code": "138",
  "name": " Heat 29°"
},
{
  "code": "139",
  "name": " Heat 30°"
}
],
"roomCode": "92a1516aee9747ce937f9852f5f2f05a",
"hostCode": "fca1516ae2dk82kd02kld8852f5fdf832"
},
{
  "deviceAddress": "26678",
```

```
"deviceAlias": "Curtain",
"deviceType": "ZB-CT",
"state": "0",
"operations": [
  {
"code": "1",
"name": "Open"
  },
  {
"code": "0",
"name": "Close"
  },
  {
"code": "2",
"name": "Stop"
  }
],
"roomCode": "92a1516aee9747ce937f9852f5f2f05a",
"hostCode": "fca1516ae2dk82kd02kld8852f5fdf832"
},
{
"deviceAddress": "93190560",
"deviceAlias": "Ceiling Light",
"deviceType": "RF-2262-315-33-ST",
"state": "1",
"operations": [
  {
"code": "1",
"name": "Open"
  },
  {
"code": "2",
"name": "Close"
  }
],
"roomCode": "92a1516aee9747ce937f9852f5f2f05a",
"hostCode": "fca1516ae2dk82kd02kld8852f5fdf832"
},
{
"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": "fca1516ae2dk82kd02kld8852f5fdf832"
},
{
  "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": "fca1516ae2dk82kd02kld8852f5fdf832"
},
{
  "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": "92a1516aee9747ce937f9852f5f2f05a",
  "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": "92a1516aee9747ce937f9852f5f2f05a",
  "hostCode": "fca1516ae2dk82kd02kld8852f5fdf832"
},
{
  "deviceAddress": "96213572",
  "deviceAlias": "433 RF Light",
  "deviceType": "RF-2262-433-33-ST",
```

```

"state": "0",
"operations": [
  {
    "code": "1",
    "name": "Open"
  },
  {
    "code": "2",
    "name": "Close"
  }
],
"roomCode": "92a1516aee9747ce937f9852f5f2f05a",
"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:

<http://sdk.kincony.com:8080/smarthome.IMCPlatform/scene/v1.0/triggerScene.action?sceneCode=253GLK>

Interface Return:

```
{
  "message": "Scence is triggered",
  "result": {
    "senceCode": "253GLK"
    "senceAlias": "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:

http://sdk.kincony.com:8080/smarthome.IMCPlatform/device/v1.0/sendCommand.action?deviceCode=ec99651539d1b09cd1251ee2&command=RELAY-GET_INPUT-1

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:

Error code	Description
0	Successful Operation
100	Failure login
801	Start time not specified
802	End time less than start time
803	Wrong number of arguments or parameter values
808	Room not exist
809	Access Token not specified