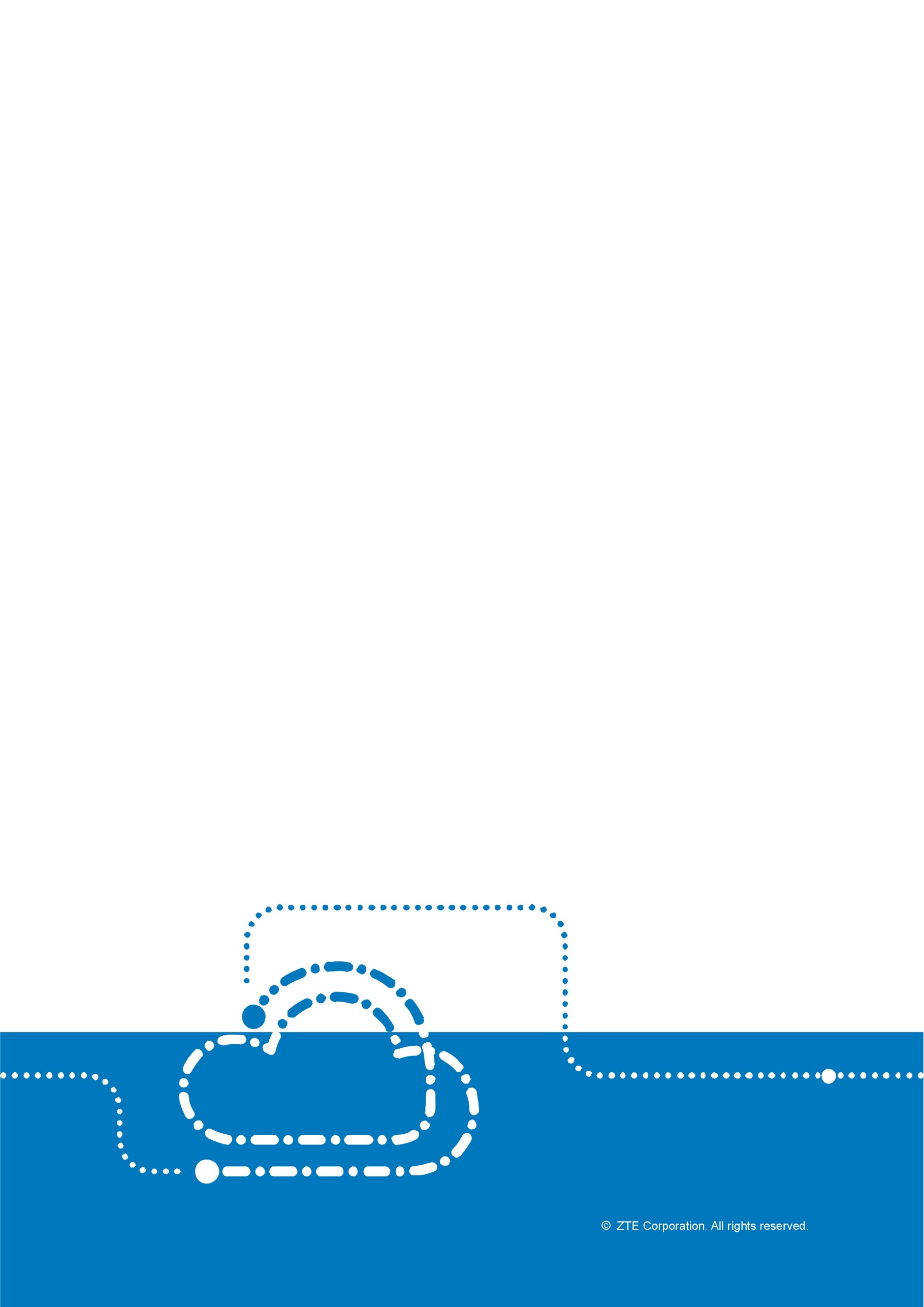


**API Document for Viettel Home Wi-Fi**



API Document for Viettel Home Wi-Fi

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Reviewer** | **Notes** |
| V1.0 | 2021/05/07 | ZTE |  | Not open to the third party |
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# Interface Data Format

## Return Format

{

"code": 0,

"message": "",

"data": ""

}

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Description | Example | Type | Remark |
| code | Status code | 0 | int | 0: Success;  others: Failure. |
| message | Error message | success | String | when code=0,  message=”success”;  otherwise,  message is error description |
| data | Actually Returned Data | “” | String | when code = 0;  data is actually returned data;  otherwise,  data=”” |

## Example

### Success

{

"code": 0,

"message": "success",

"data": " Json character string or other return, depending on the actual interface "

}

### Failure

{

"code": Error Code,

"message": " Error Message",

"data": ""

}

# Interface Verification

For the sake of security, security verification must be performed on the interface.

Parameters must be added for all interfaces.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Description | Example | Type | Remarks |
| \_ak | Access Key Id | viettel | string | fixed |
| \_ts | Timestamp, seconds | 1612681743 | Long | Acts as a random value to prevent data from being tampered with. |
| \_signature | Signature |  | string | The signature algorithm is as follows: |

The signature algorithm is as follows:

\_signature = hmacSha1(sk, uppercaseOfHttpMethod + pathString);

sk:4cd4bc99e2394fa4a81ce2d47c1e4fe5fe24f2fbadf744b196e1ab0e91fa00e74d864f1397b942afb859a165847f4f9a04dae54eac7b48f296f6f836cde5289e

uppercaseOfHttpMethod : The uppercase of HTTP method. For example: GET, POST

pathString :path.substring(0, path.indexOf("&\_signature")) . For example: If request url=”https://nbi.viettelhomewifi.com/viettel/north/devinfo?\_ak=viettel&\_ts=1612681743&SN=ZTEEH7VL4400010&\_signature=......”, then pathString is “/viettel/north/devinfo?\_ak=viettel&\_ts=1612681743&SN=ZTEEH7VL4400010”

# Interface Description

## Obtaining Device Information

URL：/viettel/north/devinfo

Method: Get

Parameter:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Description | Example | Type | Remarks |
| SN | Device serial number | ZTEEH7VL4400010 | string | Required |

Response：

{

"code": 0,

"message": "success",

"data": "{\"BoundAccount\":\"02552870518\",\"ConfigurationVersion\":\"V9.0.0-VTEL\",\"FirmwareVersion\":\"V9.0.0C3\_CLO-o\",\"MAC\":\"00:19:c6:51:29:24\",\"MeshStatus\":\"controller\",\"Model\":\"H196A V9\",\"RegistrationTime\":1608002288439,\"SN\":\"ZTEEH7VL4400010\",\"lastOnlineTime\":1608608839266,\"onlineStatus\":1,\"WanMode\":\"DHCP\",\"Rssi\":60}"

}

Data is the character string of JSON.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Description | Example | Type | Remarks |
| SN | Device serial number | ZTEEH7VL4400010 | int |  |
| MAC | Device MAC address | 00:19:c6:51:29:24 | string |  |
| Model | Model of device | H196A V9 | string |  |
| FirmwareVersion | Firmware of device | V9.0.0C3\_CLO-o | string |  |
| ConfigurationVersion | Configuration version of device | V9.0.0-VTEL | string |  |
| RegistrationTime | Time of registration | 1608002288439 | long |  |
| BoundAccount | Broadband account | 02552870518 | string |  |
| OnlineStatus | Online status | 1 | int |  |
| LastOnlieTime | Last online time | 1608608839266 | long |  |
| MeshStatus | Mesh status | controller | string |  |
| WanMode | Wan mode | DHCP | String |  |
| Rssi | rssi | -65 | int | If the Agent is wired access, the RSSI will return 100; if the AP is the Controller, the RSSI will return 200; the rest will be returned according to actual values |

## Customer account reset (Unbinding Devices)

URL：/viettel/north/unbind

Method: Get

Parameter:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Description | Example | Type | Remarks |
| SN | Device serial number | ZTEEH7VL4400010 | string | Required |

Response：

{

"code": 0,

"message": "success",

"data": ""

}

## Mesh Network Status Query

URL：/viettel/north/mesh/check

Method: Get

Parameter:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Description | Example | Type | Remarks |
| SNList | Device serial number list, separated by commas | ZTEEH7VL4400010,ZTEEH7VL9G00007,ZTEEH7VL4400008 | string | Required |

Response：

{

"code": 0,

"message": "success",

"data": "{\"isSameMeshNetwork\":\"true\",\"isRssiExceedLimit\":\"true\"}

}

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Description | Example | Type | Remarks |
| isSameMeshNetwork | Whether all devices are in the same mesh network | true | String | It will return false if offline devices exist |
| isRssiExceedLimit | Whether the rssi of all devices is greater than the set value | true | String | 1.Only consider the rssi value of online devices.  2.The default value is -65dBm  3.If the Agent is wired access, the RSSI is calculated as 100; if the AP is the Controller, the RSSI is calculated as 200; |

# Table of Error Code

|  |  |  |
| --- | --- | --- |
| Code | Message | Description |
| -32704 | Device not bound | The device is not bound and cannot be unbound. |
| -32098 | "The device does not exist:" + No device parameters | Input parameter. There is no device in the database. |
| -32700 | Invalid parameter | The input parameter is invalid (missing or incorrect parameter type). |
| -32603 | Server internal error | System error |
| 1001 | Abnormal data | The user bound to the device does not exist. |
| 2202 | Abnormal data | The binding relationship is changed. |
| 9300 | The server ID failed to be authenticated. | AK, SK verification failed. |