

```
[
  {
    "id": "85fba9a66bdf3652",
    "type": "tab",
    "label": "export",
    "disabled": false,
    "info": "",
    "env": []
  },
  {
    "id": "9335f8985ad6355f",
    "type": "debug",
    "z": "85fba9a66bdf3652",
    "name": "complete msg object",
    "active": true,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "true",
    "targetType": "full",
    "statusVal": "",
    "statusType": "auto",
    "x": 1060,
    "y": 280,
    "wires": []
  },
  {
    "id": "d0c5b25eab429872",
    "type": "http request",
    "z": "85fba9a66bdf3652",
    "name": "1st time Token Request",
    "method": "POST",
```

```
"ret": "obj",
"paytoqs": "ignore",
"url": "https://iam.viessmann.com/idp/v2/token",
"tls": "",
"persist": false,
"proxy": "",
"insecureHTTPParser": false,
"authType": "",
"senderr": false,
"headers": [],
"credentials": {},
"x": 790,
"y": 400,
"wires": [
  [
    "9335f8985ad6355f",
    "0d2a5e7d488cd318",
    "447c753a96dbd202",
    "64e0bbe1359b7cb4"
  ]
]
},
{
  "id": "4f0f69086473f5b1",
  "type": "function",
  "z": "85fba9a66bdf3652",
  "name": "set payload & headers",
  "func": "msg.payload =
`grant_type=authorization_code&client_id=my_oauth_client_id&redirect_uri=http://localhost:1880/
authcode&code_verifier=2e21faa1-db2c-4d0b-a10f-575fd372bc8c-
575fd372bc8c&code=${msg.payload.code}`;\nmsg.headers = {};\nmsg.headers['Content-Type'] =
'application/x-www-form-urlencoded';\n\nreturn msg;",
  "outputs": 1,
```

```
"noerr": 0,
"initialize": "",
"finalize": "",
"libs": [],
"x": 540,
"y": 400,
"wires": [
  [
    "d0c5b25eab429872"
  ]
]
},
{
  "id": "70539c21a6d2f393",
  "type": "inject",
  "z": "85fba9a66bdf3652",
  "name": "",
  "props": [
    {
      "p": "payload"
    },
    {
      "p": "topic",
      "vt": "str"
    }
  ],
  "repeat": "",
  "crontab": "",
  "once": false,
  "onceDelay": 0.1,
  "topic": "",
  "payload": ""
```

```
"payloadType": "date",
"x": 340,
"y": 180,
"wires": [
  [
    "d61715ba9a7d236a"
  ]
]
},
{
  "id": "1d594fc5acf7228f",
  "type": "debug",
  "z": "85fba9a66bdf3652",
  "name": "debug 5",
  "active": false,
  "tosidebar": true,
  "console": false,
  "tostatus": false,
  "complete": "payload",
  "targetType": "msg",
  "statusVal": "",
  "statusType": "auto",
  "x": 660,
  "y": 180,
  "wires": []
},
{
  "id": "05a1a145318bea8b",
  "type": "http in",
  "z": "85fba9a66bdf3652",
  "name": "",
  "url": "/authcode",
```

```
"method": "get",
"upload": false,
"swaggerDoc": "",
"x": 300,
"y": 300,
"wires": [
  [
    "dd522c85b6d03813",
    "8bb4435c0444200b",
    "4f0f69086473f5b1"
  ]
]
},
{
  "id": "dd522c85b6d03813",
  "type": "debug",
  "z": "85fba9a66bdf3652",
  "name": "msg.payload.code",
  "active": false,
  "tosidebar": true,
  "console": false,
  "tostatus": false,
  "complete": "payload.code",
  "targetType": "msg",
  "statusVal": "",
  "statusType": "auto",
  "x": 530,
  "y": 260,
  "wires": []
},
{
  "id": "8bb4435c0444200b",
```

```
"type": "http response",
"z": "85fba9a66bdf3652",
"name": "Reponse",
"statusCode": "200",
"headers": {},
"x": 500,
"y": 300,
"wires": []
},
{
  "id": "75c8b3bb817081ed",
  "type": "comment",
  "z": "85fba9a66bdf3652",
  "name": "Generate authorization code",
  "info": "",
  "x": 380,
  "y": 140,
  "wires": []
},
{
  "id": "d61715ba9a7d236a",
  "type": "http request",
  "z": "85fba9a66bdf3652",
  "name": "",
  "method": "GET",
  "ret": "txt",
  "paytoqs": "ignore",
  "url":
  "https://iam.viessmann.com/idp/v2/authorize?client_id=my_oauth_client_id&redirect_uri=http://localhost:1880/authcode&response_type=code&code_challenge=2e21faa1-db2c-4d0b-a10f-575fd372bc8c-575fd372bc8c&scope=IoT%20User%20offline_access",
  "tls": "",
  "persist": false,
```

```
"proxy": "",
"insecureHTTPParser": false,
"authType": "basic",
"senderr": false,
"headers": [],
"credentials": {
  "user": "",
  "password": ""
},
"x": 510,
"y": 180,
"wires": [
  [
    "1d594fc5acf7228f"
  ]
]
},
{
  "id": "453faddb097f1f82",
  "type": "comment",
  "z": "85fba9a66bdf3652",
  "name": "Click here -->",
  "info": "",
  "x": 170,
  "y": 180,
  "wires": []
},
{
  "id": "23205333fe191ec2",
  "type": "comment",
  "z": "85fba9a66bdf3652",
  "name": "after expiry",
```

```
"info": "",
"x": 160,
"y": 140,
"wires": []
},
{
  "id": "0d2a5e7d488cd318",
  "type": "debug",
  "z": "85fba9a66bdf3652",
  "name": "access_token",
  "active": false,
  "tosidebar": true,
  "console": false,
  "tostatus": false,
  "complete": "payload",
  "targetType": "msg",
  "statusVal": "",
  "statusType": "auto",
  "x": 1040,
  "y": 360,
  "wires": []
},
{
  "id": "64e0bbe1359b7cb4",
  "type": "debug",
  "z": "85fba9a66bdf3652",
  "name": "refresh_token",
  "active": false,
  "tosidebar": true,
  "console": false,
  "tostatus": false,
  "complete": "payload",
```



```
"targetType": "msg",
"statusVal": "",
"statusType": "auto",
"x": 1040,
"y": 320,
"wires": []
},
{
  "id": "447c753a96dbd202",
  "type": "change",
  "z": "85fba9a66bdf3652",
  "name": "set token flow variables",
  "rules": [
    {
      "t": "set",
      "p": "accessToken",
      "pt": "flow",
      "to": "payload.access_token",
      "tot": "msg"
    },
    {
      "t": "set",
      "p": "refreshToken",
      "pt": "flow",
      "to": "payload.refresh_token",
      "tot": "msg"
    }
  ],
  "action": "",
  "property": "",
  "from": "",
  "to": "",
```

```
"reg": false,
"x": 1070,
"y": 400,
"wires": [
  [
    "73b70712397b34a0"
  ]
]
},
{
  "id": "c1438f8f55e773fc",
  "type": "http request",
  "z": "85fba9a66bdf3652",
  "name": "Installation ID",
  "method": "GET",
  "ret": "obj",
  "paytoqs": "ignore",
  "url": "https://api.viessmann.com/iot/v1/equipment/installations",
  "tls": "",
  "persist": false,
  "proxy": "",
  "insecureHTTPParser": false,
  "authType": "",
  "senderr": false,
  "headers": [],
  "x": 740,
  "y": 540,
  "wires": [
    [
      "fb17251dafd8d9c0"
    ]
  ]
}
```

```
},
{
  "id": "73b70712397b34a0",
  "type": "function",
  "z": "85fba9a66bdf3652",
  "name": "Auth Header",
  "func": "var atoken = flow.get('accessToken')\nmsg.headers = {\n  Authorization: \"Bearer \"+\n  atoken\n}\nreturn msg;\n\n",
  "outputs": 1,
  "noerr": 0,
  "initialize": "",
  "finalize": "",
  "libs": [],
  "x": 510,
  "y": 540,
  "wires": [
    [
      "c1438f8f55e773fc"
    ]
  ]
},
{
  "id": "f57f675e9e5166af",
  "type": "inject",
  "z": "85fba9a66bdf3652",
  "name": "",
  "props": [
    {
      "p": "payload"
    },
    {
      "p": "topic",

```

```
    "vt": "str"
  }
],
"repeat": "",
"cronTab": "",
"once": false,
"onceDelay": 0.1,
"topic": "",
"payload": "",
"payloadType": "date",
"x": 300,
"y": 540,
"wires": [
  [
    "73b70712397b34a0"
  ]
]
},
{
  "id": "d0b06a628669aada",
  "type": "http request",
  "z": "85fba9a66bdf3652",
  "name": "Gateway Serial",
  "method": "GET",
  "ret": "obj",
  "paytoqs": "ignore",
  "url": "https://api.viessmann.com/iot/v1/equipment/gateways",
  "tls": "",
  "persist": false,
  "proxy": "",
  "insecureHTTPParser": false,
  "authType": ""
```

```
"senderr": false,
"headers": [],
"x": 740,
"y": 580,
"wires": [
  [
    "c24f7c3fed9cc57a"
  ]
]
},
{
  "id": "fb17251dafd8d9c0",
  "type": "change",
  "z": "85fba9a66bdf3652",
  "name": "set flow variables",
  "rules": [
    {
      "t": "set",
      "p": "installationID",
      "pt": "flow",
      "to": "payload.data[0].id",
      "tot": "msg"
    }
  ],
  "action": "",
  "property": "",
  "from": "",
  "to": "",
  "reg": false,
  "x": 930,
  "y": 540,
  "wires": [
```

```
[
  "07c1ba0ddc24a3e8"
]
},
{
  "id": "c24f7c3fed9cc57a",
  "type": "change",
  "z": "85fba9a66bdf3652",
  "name": "set flow.gatewaySerial",
  "rules": [
    {
      "t": "set",
      "p": "gatewaySerial",
      "pt": "flow",
      "to": "payload.data[0].serial",
      "tot": "msg"
    }
  ],
  "action": "",
  "property": "",
  "from": "",
  "to": "",
  "reg": false,
  "x": 940,
  "y": 580,
  "wires": [
    [
      "8f638f10da485d65"
    ]
  ]
},
```

```
{
  "id": "07c1ba0ddc24a3e8",
  "type": "function",
  "z": "85fba9a66bdf3652",
  "name": "Auth Header",
  "func": "var atoken = flow.get('accessToken')\nmsg.headers = {\n  Authorization: \"Bearer \"+
atoken\n}\nreturn msg;\n\n",
  "outputs": 1,
  "noerr": 0,
  "initialize": "",
  "finalize": "",
  "libs": [],
  "x": 510,
  "y": 580,
  "wires": [
    [
      "d0b06a628669aada"
    ]
  ]
},
{
  "id": "b09631dd5189e281",
  "type": "http request",
  "z": "85fba9a66bdf3652",
  "name": "DeviceID",
  "method": "GET",
  "ret": "obj",
  "paytoqs": "ignore",
  "url":
"https://api.viessmann.com/iot/v1/equipment/installations/{{iid}}/gateways/{{gws}}/devices/ ",
  "tls": "",
  "persist": false,
```

```
"proxy": "",
"insecureHTTPParser": false,
"authType": "",
"senderr": false,
"headers": [],
"x": 720,
"y": 620,
"wires": [
  [
    "8db8769574f57151"
  ]
]
},
{
  "id": "8db8769574f57151",
  "type": "change",
  "z": "85fba9a66bdf3652",
  "name": "",
  "rules": [
    {
      "t": "set",
      "p": "deviceId",
      "pt": "flow",
      "to": "payload.data[0].id",
      "tot": "msg"
    }
  ],
  "action": "",
  "property": "",
  "from": "",
  "to": "",
  "reg": false,
```



```
"x": 930,
"y": 620,
"wires": [
  []
]
},
{
  "id": "8f638f10da485d65",
  "type": "function",
  "z": "85fba9a66bdf3652",
  "name": "extended auth header",
  "func": "//var o = parseFloat(flow.get('2vo1'));\n//var atoken = msg.token\nvar atoken =\nflow.get('accessToken')\nmsg.headers = {\n  Authorization: \"Bearer \" + atoken\n}\nmsg.iid =\nflow.get('installationID');\nmsg.gws = flow.get('gatewaySerial');\nreturn msg;\n\n",
  "outputs": 1,
  "noerr": 0,
  "initialize": "",
  "finalize": "",
  "libs": [],
  "x": 540,
  "y": 620,
  "wires": [
    [
      "b09631dd5189e281"
    ]
  ]
},
{
  "id": "9b4c64a643513340",
  "type": "comment",
  "z": "85fba9a66bdf3652",
  "name": "get tokens 1st time",
```

```
"info": "",
"x": 350,
"y": 360,
"wires": []
},
{
  "id": "bd8031de43a37fd2",
  "type": "comment",
  "z": "85fba9a66bdf3652",
  "name": "get/set invariable parameters",
  "info": "",
  "x": 380,
  "y": 480,
  "wires": []
}
]
```