

- Control Plus IP 8

Stand: 24.03.2020

Outputs the MAC address of the device as return value.

GET:

- <http://192.168.0.6/cgi-bin/api/v1/discover>

Answer:

```
{
  „mac“: „C4:93:00:0A:EE:0C“
  „name“: „TCRIP8“
}
```

Generates and issues a new security key. In order for the device to react to this request, the checkbox "Enable" must first be activated under System Administration, under "Enable REST API" or the reset button on the device itself must be activated for 1-5 seconds (the WLAN LED flashes every second as long as the security key can be queried). After saving and applying, a new security key can be generated and issued for 60 seconds.

POST:

- <http://192.168.0.6/cgi-bin/api/v1>

Body:

```
{
  „devicetype“:“my application“
}
```

Answer:

```
[
  {
    „success“: {
      „username“: „ed21dg54d238wer21cs654rtb7612adf“
    }
  }
]
```

If a security key has already been generated, the generated security key can be queried. Thus a new user can be added. The interface must be released in the same way as when a new security key is generated. Via the web interface or via the reset button on the device.

GET:

- <http://192.168.0.6/cgi-bin/api/v1/apikey>

Answer:

```
[
  {
    „success“: {
      „username“: „ed21dg54d238wer21cs654rtb7612adf“
    }
  }
]
```

Starts the callback function, where state changes of the inputs, outputs and the logon inputs are sent in JSON format to the transmitted URL. It is important that http or https are included in the URL. All states are transmitted once the callback function is started.

POST:

- <http://192.168.0.6/cgi-bin/api/v1/ed21dg54d238wer21cs654rtb7612adf/callback>

Body:

```
{
  „url“: „http://send/data/to/this/resource“
}
```

Answer:

```
{
  "success": {
    "/callback": "Started on https://192.168.0.6/callbacktesting"
  }
}
```

End callback function and delete transmitted URL.

GET:

- <http://192.168.0.6/cgi-bin/api/v1/ed21dg54d238wer21cs654rtb7612adf/callbackdel>

Answer:

```
{
  "callback": "deleted"
}
```

The messages of the callback function contain the header Content-Type: application/json and Content-Length: 23 with the length of the message.

Answer:

```
{
  "1": {
    "output": 2,
    "value": false
  },
  "2": {
    "output": 3,
    "value": true
  },
  "3": {
    "input": 1,
    "value": false
  },
  "4": {
    "input": 2,
    "value": true
  },
  "5": {
    "analog": 2,
    "value": 785
  },
  "6": {
    "analog": 1,
    "value": 1961
  }
}
```

Read all outputs

GET:

- <http://192.168.0.6/cgi-bin/api/v1/ed21dg54d238wer21cs654rtb7612adf/outputs>

Answer:

```
{
  „1“: {
    „state“: {
      „value“: 0
    },
    „name“: „Ausgang 1“
  },
  „2“: {
    „state“: {
      „value“: 0
    },
    „name“: „Ausgang 2“
  },
  .
  .
  .
  „7“: {
    „state“: {
      „value“: 0
    },
    „name“: „Ausgang 7“
  },
  „8“: {
    „state“: {
      „value“: 0
    },
    „name“: „Ausgang 8“
  }
}
```

Read out individual outputs

GET:

- <http://192.168.0.6/cgi-bin/api/v1/ed21dg54d238wer21cs654rtb7612adf/outputs/1>

Answer:

```
{
  „state“: 0,
  „name“: „Output 1“
}
```

Read all inputs

GET:

- <http://192.168.0.6/cgi-bin/api/v1/ed21dg54d238wer21cs654rtb7612adf/inputs>

Answer:

```
{
  „1“: {
    „state“: {
      „value“: 0
    },
    „name“: „Eingang 1“
  },
  „2“: {
    „state“: {
      „value“: 0
    },
    „name“: „Eingang 2 “
  },
  .
  .
  .
  .
  .
  .
  .
  .
  .
  .
  .
  „15“: {
    „state“: {
      „value“: 0
    },
    „name“: „Eingang 15“
  },
  „16“: {
    „state“: {
      „value“: 0
    },
    „name“: „Eingang 16 “
  }
}
```

Read out individual inputs

GET:

- <http://192.168.0.6/cgi-bin/api/v1/ed21dg54d238wer21cs654rtb7612adf/inputs/1>

Answer:

```
{
  „state“: 0,
  „name“: „Input 1“
}
```

Controlling individual outputs

POST:

- <http://192.168.0.6/cgi-bin/api/v1/ed21dg54d238wer21cs654rtb7612adf/outputs/1/state>

Body:

```
{
  „value“:1
}
```

Answer:

```
[
  {
    „success“: {
      „/outputs/1/state“: 1
    }
  }
]
```

Read out all analog inputs. The answer is the digital value of the analog digital converter.

GET:

- <http://192.168.0.6/cgi-bin/api/v1/ed21dg54d238wer21cs654rtb7612adf/analoginputs>

Answer:

```
{
  „1“: {
    „state“: {
      „value“: 0
    },
    „name“: „Analogeingang 1“
  },
  „2“: {
    „state“: {
      „value“: 0
    },
    „name“: „Analogeingang 2“
  }
}
```

Read out individual analog inputs

GET:

- <http://192.168.0.6/cgi-bin/api/v1/ed21dg54d238wer21cs654rtb7612adf/analoginputs/1>

Answer:

```
{
  „state“: {
    „value“: 0
  },
  „name“: „Analogeingang 1“
}
```

Read out all analog inputs. The response is the current voltage value.

GET:

- <http://192.168.0.6/cgi-bin/api/v1/ed21dg54d238wer21cs654rtb7612adf/analoginputsvolt>

Answer:

```
{
  „1“: {
    „state“: {
      „value“: 5.123541298451235
    },
    „name“: „Analogeingang 1“
  },
  „2“: {
    „state“: {
      „value“: 5.123541298451235
    },
    „name“: „Analogeingang 2“
  }
}
```

Reading the individual voltage value of an analog input

GET:

- <http://192.168.0.6/cgi-bin/api/v1/ed21dg54d238wer21cs654rtb7612adf/analoginputsvolt/1>

Answer:

```
{
  „state“: {
    „value“: 5.123541298451235
  },
  „name“: „Analogeingang 1“
}
```


Read out all analog inputs. The answer is the signed value of the scale that the user has configured in the web interface. Also the unit configured by the user. The values are limited to two decimal positions.

GET:

- <http://192.168.0.6/cgi-bin/api/v1/ed21dg54d238wer21cs654rtb7612adf/analoginputsunit>

Answer:

```
{
  „1“: {
    „state“: {
      „value“: -10.5
    },
    „name“: „Analogeingang 1“,
    „unit“: „°C“
  },
  „2“: {
    „state“: {
      „value“: 5.12
    },
    „name“: „Analogeingang 2“,
    „unit“: „V“
  }
}
```

Reading an individual voltage value of an analog input

GET:

- <http://192.168.0.6/cgi-bin/api/v1/ed21dg54d238wer21cs654rtb7612adf/analoginputsunit/1>

Answer:

```
{
  „state“: {
    „value“: 5.123541298451235
  },
  „name“: „Analogeingang 1“
}
```

Execute configured connections

POST:

- <http://192.168.0.6/cgi-bin/api/v1/ed21dg54d238wer21cs654rtb7612adf/virtualoutputs/1/state>

Body:

```
{
  „value“:1
}
```

Answer:

```
[
  {
    „success“: {
      „/virtualoutputs/1/state“: 1
    }
  }
]
```

Request of configured connections

GET:

- <https://192.168.0.6/cgi-bin/api/v1/connections>

Answer:

```
{
  "1": 1,
  "2": 1,
  "3": 1,
  "4": 0,
  "5": 0,
  "6": 0,
  "7": 0,
  "8": 0
}
```