

eConnect[®] PDU RESTful API User Guide

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Introduction

This manual provides a list of commands for accessing the Chatsworth Products (CPI) eConnect® PDU using a bulk, RESTful Application Programming Interface (API).

The eConnect Bulk API is organized around REST. The API is a “bulk” API because it doesn’t allow for filtering, sorting, collections or nesting of resources. This is done under the assumption that the retriever will process all of the data into a database and a single request will be faster with less overhead.

The API can be used to GET data from the PDU and POST changes to the PDU using the standard Ethernet network connection on the PDU.

The API requires an eConnect PDU with eConnect Controller 4 (MCM4) and firmware version 5.2.xxx or later or an eConnect PDU with eConnect Controller 3 (MCM3) and firmware version 4.12.xx or later. Download the latest firmware here:

chatsworth.com/en-us/resources/design-tools/software

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What is a REST API?

An API is an application programming interface—a set of rules that lets programs talk to each other, exposing data and functionality across the internet in a consistent format.

REST stands for Representational State Transfer. This is an architectural pattern that describes how distributed systems can expose a consistent interface. When users refer to the term 'REST API,' they are generally referring to an API accessed via HTTP protocol at a predefined set of URLs.

These URLs represent various resources—any information or content accessed at that location, which can be returned as JSON, HTML, audio files or images. Often, resources have one or more methods that can be performed on them over HTTP, like GET, POST, PUT and DELETE.

HTTP Headers

HTTP headers let the client and the server pass additional information with an HTTP request or response. An HTTP header consists of its case-insensitive name followed by a colon (:), then by its value. Whitespace before the value is ignored.

The Bulk API uses two custom HTTP Headers.

1. **SessionID:** Contains the Session ID value that is returned from the login end point. This header must be included in all requests. If it is not used, then the system will not be able to validate the request, and an error will be returned.
2. **PDUSelector:** Contains the PDU selector (address) of the PDU in the Secure Array[®]. The selector value can be retrieved from the Secure Array upgrade (saupgrade) end point. Selector values do not change and are unique to the PDU.

Session Flow

A session working with the Bulk API follows the same basic workflow.

1. Create a login request JSON object.
2. Post to the login end point on the PDU.
3. Receive a login response object. If the request was successful, the response object will include a Session ID. This should be used as in the HTTP Headers for all subsequent calls.
4. Make calls to the various end points.

POST: Login

The POST login action should be the first call all users make to initiate a session. If successful, the response will contain a session ID. A session ID times out after 10 minutes of inactivity, after which a new session needs to be initiated.

| | |
|-------------------------------|---------------------|
| URL: | <i>/bulk/login/</i> |
| Method | <i>POST</i> |
| Authorization required | Yes |
| Permissions required | None |

Success Response

Code: *200 OK*

Content examples

The system returns a result object.

| Field | Description |
|-------------------|--|
| resultCode | The result of the operation. <u>A 0 indicates success</u> . All other values should be considered a failure. |
| message | A human-readable explanation of the resultCode. |
| sessionid | This field is only available from the login endpoint and <u>only</u> if the result is a success. The session ID should be used in subsequent calls to the API. |

```
[
  {
    "resultCode": "int",
    "message": "string",
    "sessionid": "string"
  }
]
```

A successful login returns the following:

```
{
  "resultCode": "0"
  "message": "OK"
  "sessionid": "12ad3479876"
}
```

DELETE: Web Certificate

The DELETE action removes the HTTPS certificate from the system and uses the default certificate from the manufacturer.

| | |
|-------------------------------|--------------------|
| URL | <i>/bulk/cert/</i> |
| Method | <i>DELETE</i> |
| Authorization required | YES |
| Permissions required: | User |

Success Response

Code: *200 OK*

Content examples

The system returns a result object.

| Field | Description |
|-------------------|--|
| resultCode | The result of the operation. <u>A 0 indicates success</u> all other values should be considered a failure. |
| message | A human-readable explanation of the resultCode. |

```
[
  {
    "resultCode": "int",
    "message": "string"
  }
]
```

Successful deletion returns the following:

```
{
  "resultCode":"0",
  "message":"OK"
}
```

POST: Certificate

The POST action is a HTTP multipart form that applies a new HTTPS certificate to the web server. The HTTPS certificate is a file specified as “cert”.

Example of certificate urlr (curl):

```
curl -X POST -H "SessionID: 1234567890" -F "cert=@lighttpd.pem"  
http://127.0.0.1/bulk/cert
```

The PDUSelector field is not valid for this endpoint. All HTTPS calls are only handled by the primary or alternate PDU. The certificate needs to be set independently on each of these PDUs.

| | |
|-------------------------------|--------------------|
| URL | <i>/bulk/cert/</i> |
| Method | <i>POST</i> |
| Authorization required | YES |
| Permissions required | User |

Success Response

Code: 200 OK

Content examples

The system returns a result object.

| Field | Description |
|-------------------|---|
| resultCode | The result of the operation. A 0 indicates success all other values should be considered a failure. |
| message | A human readable explanation of the failure. |

```
[  
  {  
    "resultCode": "int",  
    "message": "string"  
  }  
]
```

A successful application of the new certificate returns the following:

```
{  
  "resultCode": "0",  
  "message": "OK"  
}
```

GET: Secure Array Upgrade

The GET action retrieves a list of all the PDUs in the Secure Array. If a (saupgrade) process was initiated, the progress of that process can be tracked.

| | |
|-------------------------------|-------------------------|
| URL | <i>/bulk/saupgrade/</i> |
| Method | <i>GET</i> |
| Authorization required | Yes |
| Permissions required | Admin |

Success Response

Code: 200 OK

Content examples

| Field | Description |
|-------------------|---|
| name | The user-specified name of the PDU. |
| selector | The selector ID for the PDU. This can be used in other API calls to interact with a specific PDU. |
| version | The current version of the PDU firmware |
| updateErr | The error code associated with the most recent update. |
| updateProg | The update progress. This is a percentage value ranging from 0 to 100. |
| updateFlg | A flag indicating an update is being performed and the PDU is participating. |
| lastUpdate | The most recent date an update status was received from the PDU. |
| state | The state of the upgrade process for the PDU. This can be: * <u>Inactive</u> - No upgrade is taking place for the PDU. * <u>Downloading</u> - The PDU is currently receiving the firmware file from the primary PDU. * <u>Checking</u> - The PDU has received the firmware file and is verifying it. * <u>Upgrading</u> - The PDU is performing the upgrade of the PDU. |

```
[
  "int": {
    "updateProg": "string",
    "state": "string",
    "name": "string",
    "version": "string",
    "lastUpdate": "int",
    "updateFlg": "int",
    "updateErr": "int",
    "selector": "int"
  }
]
```


A Secure Array that includes a primary PDU with 8 secondary (children) PDUs would have the following output:

| |
|---|
| <pre>["2": { "updateProg": 3, "state": "Downloading", "name": "PDU Name", "version": "4.3.65535", "lastUpdate": 1531522863, "updateFlg": 1, "updateErr": 196608, "selector": 6096 },</pre> |
| <pre> "3": { "updateProg": 3, "state": "Downloading", "name": "PDU Name", "version": "4.3.65535", "lastUpdate": 1531522863, "updateFlg": 1, "updateErr": 196608, "selector": 6097 },</pre> |
| <pre> "4": { "updateProg": 3, "state": "Downloading", "name": "PDU Name", "version": "4.3.65535", "lastUpdate": 1531522863, "updateFlg": 1, "updateErr": 196608, "selector": 6098 },</pre> |
| <pre> "5": { "updateProg": 3, "state": "Downloading", "name": "PDU Name", "version": "4.3.65535", "lastUpdate": 1531522863, "updateFlg": 1, "updateErr": 196608, "selector": 6099 },</pre> |
| <pre> "6": { "updateProg": 3, "state": "Downloading", "name": "PDU Name", "version": "4.3.65535", "lastUpdate": 1531522863, "updateFlg": 1, "updateErr": 196608, "selector": 6100 },]</pre> |

```
"7": {
  "updateProg": 3,
  "state": "Downloading",
  "name": "PDU Name",
  "version": "4.3.65535",
  "lastUpdate": 1531522863,
  "updateFlg": 1,
  "updateErr": 196608,
  "selector": 6101
},
```

```
"8": {
  "updateProg": 3,
  "state": "Downloading",
  "name": "PDU Name",
  "version": "4.3.65535",
  "lastUpdate": 1531522863,
  "updateFlg": 1,
  "updateErr": 196608,
  "selector": 6102
},
```

```
"9": {
  "updateProg": 3,
  "state": "Downloading",
  "name": "PDU Name",
  "version": "4.3.65535",
  "lastUpdate": 1531522863,
  "updateFlg": 1,
  "updateErr": 196608,
  "selector": 6103
}
```

```
]
```

POST: Secure Array Upgrade

Initiate a Secure Array Upgrade for the secondary PDUs.

| | |
|-------------------------------|-------------------------|
| URL | <i>/bulk/saupgrade/</i> |
| Method | <i>POST</i> |
| Authorization required | YES |
| Permissions required | Admin |

Success Response

Code: *200 OK*

Content examples

A successful Secure Array update start returns the following:

```
{  
  "resultCode": "0",  
  "message": "OK"  
}
```

GET: Users

The GET action retrieves a list of the users available in the system.

| | |
|-------------------------------|---------------------|
| URL | <i>/bulk/users/</i> |
| Method | <i>GET</i> |
| Authorization required | YES |
| Permissions required | Admin |

Success Response

Code: *200 OK*

Content examples

The system returns an array of user objects.

| Field | Description |
|-----------------|---|
| username | The human readable name of the user |
| loginid | The user's login ID. |
| group | The group name of which the user is a member. |
| cardid | The card ID associated with the user. |

```
[
  {
    "username": "string",
    "loginid": "string",
    "group": "string",
    "cardid": "string"
  }
]
```

(continues)

A PDU with 4 users has the following output:

```
[
  {
    "username": "edward",
    "loginid": "edward",
    "group": "Admin",
    "cardid": "12345678"
  },
  {
    "username": "bob",
    "loginid": "bob",
    "group": "Cabinet",
    "cardid": "12345678"
  },
  {
    "username": "elizabeth",
    "loginid": "elizabeth",
    "group": "Viewer",
    "cardid": ""
  },
  {
    "username": "fran",
    "loginid": "fran",
    "group": "User",
    "cardid": ""
  }
]
```

POST: Users

Create and modify users in the PDU user store.

| | |
|-------------------------------|---------------------|
| URL | <i>/bulk/users/</i> |
| Method | <i>POST</i> |
| Authorization required | YES |
| Permissions required | Admin |

| Field | Description |
|-----------------|--|
| action | Can be one of 3 values: create, update or delete |
| username | The human readable name of the user. |
| cardid | The card ID associated with the user. |
| group | The group name of which the user is a member. |
| loginid | The user's login ID. |
| password | The user's password. |

```
[
  {
    "action": "string",
    "username": "string",
    "loginid": "string",
    "group": "string",
    "cardid": "string",
    "password": "string"
  }
]
```

To create a user:

```
[
  {
    "action": "create",
    "username": "test",
    "loginid": "test",
    "group": "Admin",
    "cardid": "123456789ABCD",
    "password": "testpassword"
  }
]
```

To update a user, specify using "loginid". "username" cannot be changed:

```
[
  {
    "action": "update",
    "loginid": "test",
    "group": "Cabinet",
    "cardid": "abcdef123456789",
    "password": "changedpassword"
  }
]
```

To delete a user, specify by "loginid":

```
[
  {
    "loginid": "test",
    "action": "delete"
  }
]
```

Success Response

Code: *200 OK*

Content examples

A successful user interaction returns the following:

```
{
  "resultCode": "0",
  "message": "OK"
}
```

POST: Firmware Upgrade

The POST action is a HTTP multipart form that applies a firmware upgrade to the primary PDU. The firmware upgrade file is specified as “upgrade”.

```
curl -X POST -H "SessionID: 1234567890" -F "upgrade=@cpipack3-20180713-svn65535.bin" http://127.0.0.1/bulk/fwupgrade
```

cpipack3-20180713-svn65535.bin is the binary file from the upgrade Zip.

The PDUSelector field is not valid for this endpoint. All HTTPS calls for this endpoint are handled by the primary PDU. The action does not complete until the upgrade process has been completed.

| | |
|-------------------------------|-------------------------|
| URL | <i>/bulk/fwupgrade/</i> |
| Method | <i>POST</i> |
| Authorization required | YES |
| Permissions required | Admin |

Success Response

Code: *200 OK*

Content examples

The system returns a result object.

| Field | Description |
|-------------------|---|
| resultCode | The result of the operation. A 0 indicates success all other values should be considered a failure. |
| message | A human readable explanation of the failure. |

```
[  
  {  
    "resultCode": "int",  
    "message": "string"  
  }  
]
```

A successful firmware update file application returns the following:

```
{  
  "resultCode":"0",  
  "message":"OK"  
}
```


GET: Config Data

Retrieve the PDU's configuration.

| | |
|-------------------------------|--|
| URL | <i>/bulk/config/</i> |
| Method | <i>GET</i> |
| Authorization required | YES |
| Permissions required | User, Cabinet or Admin (depending on item, see Appendix A) |

Success Response

Code: *200 OK*

Content examples

The system returns a large configuration object. For further reference of all configuration items contained within the reply, see Appendix A.

```
[
  {
    "pduname": "PDU Name",
    "pdudescription": "PDU Description",
    .
    .
    .
    "pducabinet": "Cabinet",
  }
]
```

POST: Config Data

Set the value for specific configuration items.

| | |
|-------------------------------|--|
| URL | <i>/bulk/config/</i> |
| Method | <i>POST</i> |
| Authorization required | YES |
| Permissions required | User, Cabinet or Admin (depending on item, see Appendix A) |

Post Data

The following data may be sent with a POST request to the “config” endpoint. The POST request may include any number of unique configuration items with a new configuration value specified. For further reference of all possible configuration items, see Appendix A.

```
[
  {
    "pduname": "New PDU Name",
    "pdudescription": "New PDU Description",
    .
    .
    .
    "pducabinet": "New Cabinet"
  }
]
```

Success Response

Code: *200 OK*

Content examples

The system returns an array of configuration-item objects with a status code for each configuration-item’s request.

| Field | Description |
|--------------------|---|
| configItem | The configItem is the specific configuration item being updated |
| configValue | The configValue is the configItem’s associated value |
| resultCode | The result code of the action. |
| message | The message associated with the resultCode |

```
[
  {
    configItem: configValue,
    "resultCode": "int",
    "message": "string"
  }
]
```

Example:

```
[
  {
    "pduname": "New PDU Name",
    "resultCode": 0,
    "message": "OK"
  },
  {
    "pdudescription": "New PDU Description",
    "resultCode": 0,
    "message": "OK"
  },
  {
    "pducabinet": "New Cabinet",
    "resultCode": 0,
    "message": "OK"
  }
]
```

GET: Line Data

Retrieve the Line data associated with the PDU.

| | |
|-------------------------------|--------------------|
| URL | <i>/bulk/line/</i> |
| Method | <i>GET</i> |
| Authorization required | YES |
| Permissions required | Viewer |

Success Response

Code: *200 OK*

Content examples

The system returns an array of line objects.

| Field | Description |
|------------|---|
| id | The ID associated with the line. It's typically a value from 1 to 3 |
| amp | The amperage on the line. This value is in 1/100s of an amp |

```
[
  {
    "id": "int",
    "amp": "int"
  }
]
```

A PDU with 3 input lines would have the following output:

```
[
  {
    "id": "1",
    "current": "670"
  },
  {
    "id": "2",
    "current": "760"
  },
  {
    "id": "3",
    "current": "570"
  }
]
```

GET: Branch Data

Retrieve the Branch/Circuit data associated with the PDU.

| | |
|-------------------------------|----------------------|
| URL | <i>/bulk/branch/</i> |
| Method | <i>GET</i> |
| Authorization required | YES |
| Permissions required | Viewer |

Success Response

Code: 200 OK

Content examples

The system returns an array of branch objects.

| Field | Description |
|--------------------|---|
| id | The ID associated with the branch. This is a value from 1 to the number of breakers in the systems. In the event there are no breakers, this is the number of input lines |
| amp | The amperage on the branch. This value is in 1/100s of an Amp |
| maxamp | The max amperage, or breaker rating, for the branch. This value is in 1/100s of an amp |
| voltage | The voltage on the branch. This value is in 1/10s of a Volt |
| power | The power or Volt-Amps on the branch. This value is in 1/10s of a Volt-Amp |
| powerfactor | The power factor for the branch. The value is in percentage form |
| status | The alarm status for the branch. This may be "noalarm", "warning" or "alarm" |
| energy | The accumulated energy for the branch. This is in decaVA-secs. Divide by 360 to get VA-hours |

```
[
  {
    "id": "int",
    "amp": "int",
    "maxamp": "int",
    "voltage": "int",
    "power": "int",
    "powerfactor": "int",
    "status": "string",
    "energy": "int"
  }
]
```

A PDU with 2 branches would have the following output:

```
[
  {
    "id": "1",
    "amp": "250",
    "maxamp": "2000",
    "voltage": "2083",
    "power": "5207",
    "powerfactor": "97",
    "status": "noalarm",
    "energy": "18745200"
  },
  {
    "id": "1",
    "amp": "1075",
    "maxamp": "2000",
    "voltage": "2076",
    "power": "22317",
    "powerfactor": "98",
    "status": "warning",
    "energy": "80341200"
  }
]
```

GET: Outlet Data

Retrieve the outlet data associated with the PDU.

| | |
|-------------------------------|----------------------|
| URL | <i>/bulk/outlet/</i> |
| Method | <i>GET</i> |
| Authorization required | YES |
| Permissions required | Viewer |

Success Response

Code: *200 OK*

Content examples

The system returns an array of outlet objects.

| Field | Description |
|--------------------|--|
| id | The ID associated with the outlet |
| branch | The branch ID the on which outlet is connected |
| name | The name of the outlet |
| amp | The amperage on the outlet. This value is in 1/100s of an Amp |
| voltage | The voltage on the outlet. This value is in 1/10s of a Volt |
| power | The power or Volt-Amps on the outlet. This value is in 1/10s of a VA |
| powerfactor | The power factor for the outlet. The value is in percentage form. NOTE: Not all models support this value |
| status | The alarm status for the outlet. This may be "noalarm", "warning" or "alarm" |
| energy | The accumulated energy for the outlet. This is in decaVA-secs. Divide by 360 to get VA-hours |
| state | The state of the outlet. This may be "on" or "off" |

```
[
  {
    "id": "int",
    "branch": "int",
    "name": "string",
    "amp": "int",
    "voltage": "int",
    "power": "int",
    "powerfactor": "int",
    "status": "string",
    "energy": "int",
    "state": "string"
  }
]
```

A PDU with 3 outlets would have the following output:

```
[
  {
    "id": "1",
    "branch": "1",
    "name": "outlet1",
    "amp": "75",
    "voltage": "2087",
    "power": "15652",
    "powerfactor": "97",
    "status": "noalarm",
    "energy": "5634720",
    "state": "on"
  },
  {
    "id": "2",
    "branch": "2",
    "name": "outlet2",
    "amp": "75",
    "voltage": "2087",
    "power": "15652",
    "powerfactor": "97",
    "status": "noalarm",
    "energy": "5634720",
    "state": "on"
  },
  {
    "id": "3",
    "branch": "3",
    "name": "outlet3",
    "amp": "75",
    "voltage": "2087",
    "power": "15652",
    "powerfactor": "97",
    "status": "noalarm",
    "energy": "5634720",
    "state": "off"
  }
]
```


POST: Outlet Data

Control the state of the outlets.

| | |
|-------------------------------|----------------------|
| URL | <i>/bulk/outlet/</i> |
| Method | <i>POST</i> |
| Authorization required | YES |
| Permissions required | User |

Post Data

The following data may be sent with a POST request to the Outlet endpoint. The POST request may include an array of outlets to control or update, but each outlet object can only have 1 edit, either 'name' or 'state', per outlet object in the POST.

| Field | Description |
|--------------|---|
| id | The ID associated with the outlet. |
| name | Optional The value to which update the outlet name. This must be less than 64 characters long. |
| state | Optional The control state to which set the outlet. This may be "on", "off" or "reset". |

```
[
  {
    "id": "int",
    "name": "string",
    "state": "string"
  }
]
```

Examples:

```
[
  {
    "id": "1",
    "state": "off"
  },
  {
    "id": "2",
    "name": "NC-06-8-2"
  },
  {
    "id": "2",
    "state": "reset"
  },
  {
    "id": "3",
    "reset": "yes"
  }
]
```

Success Response

Code: 200 OK

Content examples

The system returns an array of outlet objects with a status code for each outlet's request.

| Field | Description |
|------------|--|
| id | The ID associated with the outlet |
| name | Conditional The specified new name for the associated id's outlet, if provided |
| state | Conditional The specified new control state for the associated id's outlet, if provided |
| resultCode | The result code of the action. Usually 200, 400 or 405 |
| message | The message associated with the resultCode |

```
[
  {
    "id": "int",
    "name": "string",
    "state": "string",
    "resultCode": "int",
    "message": "string"
  }
]
```

Example:

```
[
  {
    "id": "1",
    "state": "off",
    "resultCode": 200,
    "message": "OK"
  },
  {
    "id": "2",
    "name": "NC-06-8-2",
    "resultCode": 200,
    "message": "OK"
  },
  {
    "id": "2",
    "state": "reset",
    "resultCode": 200,
    "message": "OK"
  },
  {
    "id": "3",
    "reset": "yes",
    "resultCode": 200,
    "message": "OK"
  }
]
```

GET: Environmental Data

Retrieve the environmental data associated with the PDU.

| | |
|-------------------------------|-----------------------|
| URL | <i>/bulk/environ/</i> |
| Method | <i>GET</i> |
| Authorization required | YES |
| Permissions required | Viewer |

Success Response

Code: *200 OK*

Content examples

The system returns an array of sensor measurement objects.

| Field | Description |
|--------------|--|
| id | The ID associated with the sensor |
| name | The name of the sensor doing the environmental measurement |
| type | The type of measurement reported, either “temp” or “humidity” |
| value | The associated value of the measurement in 1/100 of the specified unit |
| unit | The unit of the measurement value |

```
[
  {
    "id": "int",
    "name": "string",
    "type": "string",
    "value": "number",
    "unit": "string"
  }
]
```

(continues)

A PDU with 2 USB sensors has the following output:

```
[
  {
    "id": "1",
    "name": "Sensor1",
    "type": "temp",
    "value": "6530",
    "unit": "F"
  },
  {
    "id": "2",
    "name": "Sensor1",
    "type": "humidity",
    "value": "5140",
    "unit": "%"
  },
  {
    "id": "3",
    "name": "Sensor2",
    "type": "temp",
    "value": "6553",
    "unit": "F"
  },
  {
    "id": "4",
    "name": "Sensor2",
    "type": "humidity",
    "value": "5160",
    "unit": "%"
  }
]
```

GET: EAC Data

Retrieve the Electronic Access Control data (RFID Electronic Lock data) associated with the PDU.

| | |
|-------------------------------|-------------------|
| URL | <i>/bulk/eac/</i> |
| Method | <i>GET</i> |
| Authorization required | YES |
| Permissions required | Cabinet |

Success Response

Code: *200 OK*

Content examples

The system returns an array of lock objects.

| Field | Description |
|---------------------|---|
| id | The ID associated with the lock, either “front” or “rear” |
| status | Indicates if the Electronic Access System is “ready”, “inactive” or in an “error” state. If the status is “inactive”, then the lock is not enabled on the PDU. If the status is “error”, then the error field shows an error code to help diagnose the issue. If the status is “ready”, then the lock at the door is enabled and ready. |
| doorstatus | Indicates if the door is “open” or “closed”. |
| lockstatus | Indicates if the lock is “open” or “closed”. |
| forcestatus | Indicates if the lock was forced open by a command from the WebUI, Bulk API, CLI or SNMP interface. This will be “forced” or “normal”. |
| tamperstatus | Indicates if the cabinet is currently unlocked/opened without an authorization scan. This will be “normal” or “tamper” |
| error | Gets the error code for the corresponding lock. The possible error codes are: 196608 (0x00030000) - No error, the lock is working and ready. 167968771 (0x0a030003) - The lock is not enabled. 167837698 (0x0a010002) - The lock is not responding. Ensure proper connections and attempt to restart the lock |
| version | The version of the Electronic Access Control system software |
| serialnumber | The serial number of the lock |

(continues)

```
[
  {
    "id": "int",
    "status": "string",
    "doorstatus": "string",
    "lockstatus": "string",
    "forcestatus": "string",
    "tamperstatus": "string",
    "error": "int",
    "version": "string",
    "serialnumber": "string"
  }
]
```

A PDU with 2 electronic locks would have the following output:

```
[
  {
    "id": "1",
    "status": "ready",
    "doorstatus": "closed",
    "lockstatus": "closed",
    "forcestatus": "normal",
    "tamperstatus": "normal",
    "error": "196608",
    "version": "1.0",
    "serialnumber": "123456"
  },
  {
    "id": "2",
    "status": "ready",
    "doorstatus": "open",
    "lockstatus": "open",
    "forcestatus": "forced",
    "tamperstatus": "tamper",
    "error": "196608",
    "version": "1.0",
    "serialnumber": "123457"
  }
]
```

POST: EAC Data

Control the state of the Electronic Access System

| | |
|-------------------------------|-------------------|
| URL | <i>/bulk/eac/</i> |
| Method | <i>POST</i> |
| Authorization required | YES |
| Permissions required | Cabinet |

Post Data

The following data may be sent with a POST request to the EAC endpoint. The POST request may include an array of locks to control.

| Field | Description |
|---------------|--|
| id | The ID associated with the lock, either “front” or “rear” |
| action | The action to take against the lock. Currently, only “unlock” is supported, and only 1 lock can be specified per POST. |

```
[  
  {  
    "id": "string",  
    "action": "string"  
  }  
]
```

Example:

```
[  
  {  
    "id": "front",  
    "action": "unlock"  
  }  
]
```

Success Response

Code: 200 OK

Content examples

The system returns an array of lock objects operated on

| Field | Description |
|-------------------|--|
| id | The ID associated with the lock object, either “front” or “rear” |
| action | The action specified during the POST |
| resultCode | The result code of the action. Usually 200, 400 or 405 |
| message | The message associated with the resultCode |

```
[
  {
    "id": "string",
    "action": "string",
    "resultCode": "int",
    "message": "string"
  }
]
```

A successful unlock request returns the following:

```
[
  {
    "id": "front",
    "action": "unlock",
    "resultCode": "200",
    "message": "OK"
  }
]
```


APPENDIX A

Reference list of configuration items for the eConnect PDU:

| Configuration Item | Group | Description |
|------------------------------|-------|--|
| ipv4enabled | user | IPv4 interface enabled(1) or disabled(0) |
| dhcp4enabled | user | Set IPv4 address statically(0) or via DHCP(1) |
| ipv4autodns | user | Set DNS addresses statically(0) or via DHCP(1) |
| pduipv4 | user | PDU's currently saved IPv4 address |
| ipv4subnet | user | PDU's currently saved IPv4 subnet mask |
| ipv4gateway | user | PDU's currently saved IPv4 default gateway |
| ipv4dns1 | user | PDU's currently saved primary DNS lookup |
| ipv4dns2 | user | PDU's currently saved secondary DNS lookup |
| ipv4dns3 | user | PDU's currently saved backup DNS lookup |
| ipv6enabled | user | IPv6 interface enabled(1) or disabled(0) |
| ipv6linklocalenabled | user | IPv6 link local address enabled(1) or disabled(0) |
| ipv6globaladdrenabled | user | IPv6 global address functionality enabled(1) or disabled(0) |
| pduipv6 | user | PDU's currently saved IPv6 address |
| dhcp6enabled | user | Set IPv6 address statically(0) or via DHCP(1) |
| ipv6autodns | user | Set IPv6 DNS addresses statically(0) or via DHCP(1) |
| ipv6subnet | user | PDU's currently saved IPv6 prefix length |
| ipv6gateway | user | PDU's currently saved IPv6 default gateway |
| ipv6dns1 | user | PDU's currently saved IPv6 primary DNS lookup |
| ipv6dns2 | user | PDU's currently saved IPv6 secondary DNS lookup |
| ipv6dns3 | user | PDU's currently saved IPv6 backup DNS lookup |
| rfctimeserver | user | RFC time server address |
| ntptimeserver | user | NTP time server address |
| snmpenabled | user | SNMP service is enabled(1) or disabled(0) |
| snmphostonly | user | Limit SNMP access to certain hosts enabled(1) or disabled(0) |
| snmphostipv41 | user | IPv4 host given access to SNMP service |
| snmphostipv42 | user | IPv4 host given access to SNMP service |
| snmphostipv43 | user | IPv4 host given access to SNMP service |
| snmphostipv61 | user | IPv6 host given access to SNMP service |
| snmphostipv62 | user | IPv6 host given access to SNMP service |

| Configuration Item | Group | Description |
|--------------------------|-------|---|
| snmphostipv63 | user | IPv6 host given access to SNMP service |
| snmpqueryport | user | Port used for SNMP queries |
| snmptrapport | user | Port used for SNMP traps |
| snmpreadcomm | user | Community string for reading SNMP values |
| snmpwritecomm | user | Community string for writing SNMP values |
| snmpusmusername | user | SNMP USM user name |
| snmpsecuritylevel | user | 0-v1, 1-v2c, 2-v3NoAuth, 3-AuthNoPriv, 4-AuthPriv |
| snmpauthalgo | user | SNMPv3 authentication algorithm. 0-SHA, 1-MD5 |
| snmpprivalgo | user | SNMPv3 privacy algorithm for SNMPv3. 0-DES, 1-AES |
| snmpauthpassword | user | SNMPv3 authentication password |
| snmpprivpassword | user | SNMPv3 privacy password |
| snmpcontextname | user | SNMPv3 context name |
| snmpengineid | user | Store the SNMPv3 engine ID. |
| snmplocalauthkey | user | Store the SNMPv3 local authentication key. |
| snmplocalprivkey | user | Store the SNMPv3 local privacy key. |
| snmptraphostipv41 | user | IPv4 address that will receive snmp traps |
| snmptraphostipv42 | user | IPv4 address that will receive snmp traps |
| snmptraphostipv43 | user | IPv4 address that will receive snmp traps |
| snmptraphostipv61 | user | IPv6 address that will receive snmp traps |
| snmptraphostipv62 | user | IPv6 address that will receive snmp traps |
| snmptraphostipv63 | user | IPv6 address that will receive snmp traps |
| enableweb | user | Store whether to enable the WebUI. |
| enablehttp | user | HTTP access is enabled(1) or disabled(0) |
| enablehttps | user | HTTPs access is enabled(1) or disabled(0) |
| httpport | user | HTTP Port used for access |
| httpsport | user | HTTPs Port used for access |
| sshenable | user | Store whether the SSH network service is enabled. |
| sshport | user | Store the port used for the SSH network service. |
| enablesntp | user | SMTP service is enabled(1) or disabled(0) |
| smtpsendport | user | SMTP network service send port |
| smtpreceiveport | user | SMTP network service receive port |
| smtpserver | user | Network address of the SMTP server |
| smtpusername | user | Username to authenticate against the SMTP server |

| Configuration Item | Group | Description |
|---------------------------|--------------|---|
| smtppassword | user | User's password to authenticate against the SMTP server |
| smtpemailaddr | user | Email address used to send emails |
| smtpemaildest1 | user | Destination email address for alert emails |
| smtpemaildest2 | user | Destination email address for alert emails |
| smtpemaildest3 | user | Destination email address for alert emails |
| smtpservoptions | user | Store the SMTP server options. |
| enablesmtptls | user | Start TLS enabled(1) or disabled(0) |
| enablesmtptls | user | TLS enabled(1) or disabled(0) |
| smtpauthmethod | user | The authentication method for the SMTP service |
| datalogenable | user | Store whether data logging is enabled |
| dataloginterval | user | Store the time interval in seconds for logging metrics. (disabled if < 10). |
| logdifference | user | Store the current difference in 1/100 amps that triggers logging. |
| netservdlog | user | Transfer of syslog files to a storage server is enabled(1) or disabled(0) |
| autonetlog | user | Store whether data logs are automatically sent every 6 hours to the central server. |
| stdmeterdlog | user | Store whether to log branch, receptacle, and environmental metrics. |
| groupmeterdlog | user | Store whether to log group receptacle metrics. |
| alarmdlog | user | Store whether to log alarms. |
| userdlog | user | Store whether to user logins to the data log. |
| usersetupdlog | user | Store whether to user setup to the data log. |
| firmwaredlog | user | Store whether to log firmware updates to the data log. |
| setupchgdlog | user | Store whether to log config changes of the data log to the data log. |
| recepchgdlog | user | Store whether to log outlet changes to the data log. |
| pduopchangedLog | user | Store whether to log configuration changes to the data log. |
| datalogcycle | user | Store the time interval in minutes for internal data logging to occur. |
| datalogfullwarn | user | Store the warning threshold for percentage of storage full. |

| Configuration Item | Group | Description |
|---------------------------|--------------|---|
| datalogserver | user | Network address of the storage server |
| datalogport | user | SSH port used for accessing storage server. (Default: 22) |
| dataloguser | user | User for accessing the storage server |
| datalogpassword | user | Password used when accessing the storage server |
| datalogdestdir | user | Storage server destination directory |
| datalogoptions | user | Connection options used when accessing the storage server via SSH |
| autosyslog | user | Auto-transfer of syslog files to storage server enabled(1) or disabled(0) |
| syslogidentity | user | Identity used in syslog entries |
| syslogfacility | user | Store the SYSLOG facility id. |
| syslogserveraddr | user | Network address of the syslog server |
| syslogserverport | user | Syslog server port |
| enableldap | admin | LDAP authentication is enabled(1) or disabled(0) |
| ldapsrv | admin | Address of the LDAP server |
| ldapdomain | admin | Base Domain Name |
| ldapport | admin | LDAP port for accessing the server. (Default: 389) |
| ldapresvport | admin | Store the alternate or reserved port for LDAP. |
| enableradius | admin | Radius access control is enabled(1) or disabled(0) |
| radiusserver1 | admin | Primary radius server address |
| radiusserver2 | admin | Secondary radius server address |
| radiusserver3 | admin | Backup radius server address |
| radiussecret | admin | Radius shared secret used for authentication |
| radiusport1 | admin | Primary radius server port |
| radiusport2 | admin | Secondary radius server port |
| radiusport3 | admin | Backup radius server port |
| enableipv6radius | admin | Radius IPv6 is enabled(1) or disabled(0) |
| radiusnasserver | admin | DEPRECATED: Store the address of the radius NAS server |
| radiusnasport | admin | DEPRECATED: Store the port of the radius NAS server |
| enablecardradius | admin | Card-based radius access control is enabled(1) or disabled(0) |

| Configuration Item | Group | Description |
|---------------------------|--------------|---|
| cardradiusserver1 | admin | Primary radius server for card-based access control |
| cardradiusserver2 | admin | Secondary radius server for card-based access control |
| cardradiusserver3 | admin | Backup radius server for card-based access control |
| cardradiussecret | admin | Radius server shared secret for card-based access control |
| cardradiusport1 | admin | Primary radius card server port |
| cardradiusport2 | admin | Secondary radius card server port |
| cardradiusport3 | admin | Backup radius card server port |
| cardradiusip6 | admin | Card-based access via IPv6 Radius enabled(1) or disabled(0) |
| inputtop | user | Store whether the input cord is at the top or bottom. |
| tempformat | user | Temperature display format. 0-Fahrenheit. 1-Celsius |
| sharerole | user | Alternate is a backup(0), or share's Primary role(1) |
| missingpdu | user | Send alert if PDU joins/leaves daisy chain |
| rolechange | user | Send alert for a change in PDU role on daisy chain |
| displaytimeout | user | Store the time interval in minutes for the display to timeout. |
| logintimeout | user | Store the time interval in minutes for a login session to timeout. |
| displaybrightness | user | Store the brightness level for the display. |
| sumamps | user | Displaying of branch current totals is enabled(1) or disabled(0) |
| pduname | user | Configured PDU name |
| pdudescription | user | Configured PDU description |
| pducabinet | user | Configured cabinet ID |
| dchainrole | user | 0-Secondary 1-Primary 2-Alternate |
| dchainlinkcount | user | Alert sent when Secure Array member-count goes below |
| outofservice | user | 0-In service. 1-Out of service |
| showrecep | user | Store whether to notify the user about a change in PDU role on the daisy chain. |
| auxmode | user | Auxiliary port usage: 0-EAS 1-QPO |
| alarminterval | user | Interval for recurring alarm SNMP traps |

| Configuration Item | Group | Description |
|-----------------------------------|--------------|--|
| elsenabled | user | Store whether the electronic lock system is enabled. |
| qpoenabled | user | Store whether the quick power off module is enabled. |
| qpocontroller | user | Store whether the quick power off module is enabled. |
| macaddress | user | Store the MAC address for the system. |
| noconoff | user | Store whether the quick power off turns outlets off when a connection can't be made. |
| elsfrontenabled | cabinet | Front lock: 0-Disabled 1-Enabled |
| elsrearenabled | cabinet | Rear lock: 0-Disabled 1-Enabled |
| elslockopentime | cabinet | Time in seconds to keep locks electronically unlocked |
| elsdooropenalarm | cabinet | Time in minutes a door is open before raising alarm |
| wavereadcomp | cabinet | RF Ideas EAC Smart Card Reader: 0-Incompatible, 1-compatible |
| syslogminvoltage | user | Log critical minimum branch voltage alarms |
| syslogwarnminvolt | user | Log warning minimum branch voltage alarms |
| syslogwarnmaxvolt | user | Log warning maximum branch voltage alarms |
| syslogmaxvolt | user | Log critical maximum branch voltage alarms |
| syslogmincurrent | user | Log critical minimum branch current alarms |
| syslogwarnmincurrent | user | Log warning minimum branch current alarms |
| syslogwarnmaxcurrent | user | Log warning maximum branch current alarms |
| syslogmaxcurrent | user | Log critical maximum branch current alarms |
| syslogminoutletcurrent | user | Log critical minimum outlet current alarms |
| syslogwarnminoutletcurrent | user | Log warning minimum outlet current alarms |
| syslogwarnmaxoutletcurrent | user | Log warning maximum outlet current alarms |
| syslogmaxoutletcurrent | user | Log critical maximum outlet current alarms |
| syslogmintemp | user | Log critical minimum temperature alarms |
| syslogwarnmintemp | user | Log warning minimum temperature alarms |
| syslogwarnmaxtemp | user | Log warning maximum temperature alarms |
| syslogmaxtemp | user | Log critical maximum temperature alarms |
| syslogminhumid | user | Log critical minimum humidity alarms |
| syslogwarnminhumid | user | Log warning minimum humidity alarms |
| syslogwarnmaxhumid | user | Log warning maximum humidity alarms |
| syslogmaxhumid | user | Log critical maximum humidity alarms |
| syslogscanpass | user | Log successful card scan attempts |
| syslogscanfail | user | Log failed card scan attempts |
| syslogdoorstate | user | Log door open/close events |

| Configuration Item | Group | Description |
|---------------------------------|--------------|--|
| sysloglockstate | user | Log lock unlock/lock events |
| syslogextendedopen | user | Log when a door is open for an extended amount of time |
| syslogfwupdates | user | Log firmware update attempts |
| syslogconfigupdates | user | Log configuration changes |
| syslogrecepchange | user | Log outlet toggles |
| syslogsystem | user | Log system reboots |
| syslogaccess | user | Log system access attempts |
| syslogdchain | user | Log Secure Array state changes |
| trapminvoltage | user | Trap for critical minimum branch voltage alarms |
| trapwarnminvolt | user | Trap for warning minimum branch voltage alarms |
| trapwarnmaxvolt | user | Trap for warning maximum branch voltage alarms |
| trapmaxvolt | user | Trap for critical maximum branch voltage alarms |
| trapmincurrent | user | Trap for critical minimum branch current alarms |
| trapwarnmincurrent | user | Trap for warning minimum branch current alarms |
| trapwarnmaxcurrent | user | Trap for warning maximum branch current alarms |
| trapmaxcurrent | user | Trap for critical maximum branch current alarms |
| trapminoutletcurrent | user | Trap for critical minimum outlet current alarms |
| trapwarnminoutletcurrent | user | Trap for warning minimum outlet current alarms |
| trapwarnmaxoutletcurrent | user | Trap for warning maximum outlet current alarms |
| trapmaxoutletcurrent | user | Trap for critical maximum outlet current alarms |
| trapmintemp | user | Trap for critical minimum temperature alarms |
| trapwarnmintemp | user | Trap for warning minimum temperature alarms |
| trapwarnmaxtemp | user | Trap for warning maximum temperature alarms |
| trapmaxtemp | user | Trap for critical maximum temperature alarms |

| Configuration Item | Group | Description |
|----------------------------------|--------------|---|
| trapminhumid | user | Trap for critical minimum humidity alarms |
| trapwarnminhumid | user | Trap for warning minimum humidity alarms |
| trapwarnmaxhumid | user | Trap for warning maximum humidity alarms |
| trapmaxhumid | user | Trap for critical maximum humidity alarms |
| trapscanpass | user | Trap for successful card scan attempts |
| trapscanfail | user | Trap for failed card scan attempts |
| trapdoorstate | user | Trap for door open/close events |
| traplockstate | user | Trap for lock unlock/lock events |
| trapextendedopen | user | Trap for door open for an extended amount of time |
| trapfwupdates | user | Trap for firmware update attempts |
| trapconfigupdates | user | Trap for configuration changes |
| traprecepchange | user | Trap for outlet toggles |
| trapssystem | user | Trap for system reboots |
| trapaccess | user | Trap for system access attempts |
| trapdchain | user | Trap for Secure Array state changes |
| emailminvoltage | user | Email for critical minimum branch voltage alarms |
| emailwarnminvolt | user | Email for warning minimum branch voltage alarms |
| emailwarnmaxvolt | user | Email for warning maximum branch voltage alarms |
| emailmaxvolt | user | Email for critical maximum branch voltage alarms |
| emailmincurrent | user | Email for critical minimum branch current alarms |
| emailwarnmincurrent | user | Email for warning minimum branch current alarms |
| emailwarnmaxcurrent | user | Email for warning maximum branch current alarms |
| emailmaxcurrent | user | Email for critical maximum branch current alarms |
| emailminoutletcurrent | user | Email for critical minimum outlet current alarms |
| emailwarnminoutletcurrent | user | Email for warning minimum outlet current alarms |
| emailwarnmaxoutletcurrent | user | Email for warning maximum outlet current alarms |
| emailmaxoutletcurrent | user | Email for critical maximum outlet current alarms |

| Configuration Item | Group | Description |
|---------------------------|--------------|--|
| emailmintemp | user | Email for critical minimum temperature alarms |
| emailwarnmintemp | user | Email for warning minimum temperature alarms |
| emailwarnmaxtemp | user | Email for warning maximum temperature alarms |
| emailmaxtemp | user | Email for critical maximum temperature alarms |
| emailminhumid | user | Email for critical minimum humidity alarms |
| emailwarnminhumid | user | Email for warning minimum humidity alarms |
| emailwarnmaxhumid | user | Email for warning maximum humidity alarms |
| emailmaxhumid | user | Email for critical maximum humidity alarms |
| emailscanpass | user | Email for successful card scan attempts |
| emailscanfail | user | Email for failed card scan attempts |
| emaildoorstate | user | Email for door open/close events |
| emaillockstate | user | Email for lock unlock/lock events |
| emailextendedopen | user | Email for a door open for extended amount of time |
| emailfwupdates | user | Email for firmware update attempts |
| emailconfigupdates | user | Email for configuration changes |
| emailrecepchange | user | Email for outlet toggles |
| emailsystem | user | Email for system reboots |
| emailaccess | user | Email for system access attempts |
| emaildchain | user | Email for Secure Array state changes |
| branchlowcurr1 | user | Minimum current allowed before raising critical alarm for branch 1 |
| branchlowcurr2 | user | Minimum current allowed before raising critical alarm for branch 2 |
| branchlowcurr3 | user | Minimum current allowed before raising critical alarm for branch 3 |
| branchlowcurr4 | user | Minimum current allowed before raising critical alarm for branch 4 |
| branchlowcurr5 | user | Minimum current allowed before raising critical alarm for branch 5 |
| branchlowcurr6 | user | Minimum current allowed before raising critical alarm for branch 6 |
| branchlowcurr7 | user | Minimum current allowed before raising critical alarm for branch 7 |
| branchlowcurr8 | user | Minimum current allowed before raising critical alarm for branch 8 |
| branchlowcurr9 | user | Minimum current allowed before raising critical alarm for branch 9 |

| Configuration Item | Group | Description |
|----------------------------|--------------|---|
| branchlowcurr10 | user | Minimum current allowed before raising critical alarm for branch 10 |
| branchlowcurr11 | user | Minimum current allowed before raising critical alarm for branch 11 |
| branchlowcurr12 | user | Minimum current allowed before raising critical alarm for branch 12 |
| branchwarnlowcurr1 | user | Minimum current allowed before raising warning alarm for branch 1 |
| branchwarnlowcurr2 | user | Minimum current allowed before raising warning alarm for branch 2 |
| branchwarnlowcurr3 | user | Minimum current allowed before raising warning alarm for branch 3 |
| branchwarnlowcurr4 | user | Minimum current allowed before raising warning alarm for branch 4 |
| branchwarnlowcurr5 | user | Minimum current allowed before raising warning alarm for branch 5 |
| branchwarnlowcurr6 | user | Minimum current allowed before raising warning alarm for branch 6 |
| branchwarnlowcurr7 | user | Minimum current allowed before raising warning alarm for branch 7 |
| branchwarnlowcurr8 | user | Minimum current allowed before raising warning alarm for branch 8 |
| branchwarnlowcurr9 | user | Minimum current allowed before raising warning alarm for branch 9 |
| branchwarnlowcurr10 | user | Minimum current allowed before raising warning alarm for branch 10 |
| branchwarnlowcurr11 | user | Minimum current allowed before raising warning alarm for branch 11 |
| branchwarnlowcurr12 | user | Minimum current allowed before raising warning alarm for branch 12 |
| branchwarnhicurr1 | user | Maximum current allowed before raising warning alarm for branch 1 |
| branchwarnhicurr2 | user | Maximum current allowed before raising warning alarm for branch 2 |
| branchwarnhicurr3 | user | Maximum current allowed before raising warning alarm for branch 3 |
| branchwarnhicurr4 | user | Maximum current allowed before raising warning alarm for branch 4 |
| branchwarnhicurr5 | user | Maximum current allowed before raising warning alarm for branch 5 |
| branchwarnhicurr6 | user | Maximum current allowed before raising warning alarm for branch 6 |

| Configuration Item | Group | Description |
|---------------------------|--------------|---|
| branchwarnhicurr7 | user | Maximum current allowed before raising warning alarm for branch 7 |
| branchwarnhicurr8 | user | Maximum current allowed before raising warning alarm for branch 8 |
| branchwarnhicurr9 | user | Maximum current allowed before raising warning alarm for branch 9 |
| branchwarnhicurr10 | user | Maximum current allowed before raising warning alarm for branch 10 |
| branchwarnhicurr11 | user | Maximum current allowed before raising warning alarm for branch 11 |
| branchwarnhicurr12 | user | Maximum current allowed before raising warning alarm for branch 12 |
| branchhicurr1 | user | Maximum current allowed before raising critical alarm for branch 1 |
| branchhicurr2 | user | Maximum current allowed before raising critical alarm for branch 2 |
| branchhicurr3 | user | Maximum current allowed before raising critical alarm for branch 3 |
| branchhicurr4 | user | Maximum current allowed before raising critical alarm for branch 4 |
| branchhicurr5 | user | Maximum current allowed before raising critical alarm for branch 5 |
| branchhicurr6 | user | Maximum current allowed before raising critical alarm for branch 6 |
| branchhicurr7 | user | Maximum current allowed before raising critical alarm for branch 7 |
| branchhicurr8 | user | Maximum current allowed before raising critical alarm for branch 8 |
| branchhicurr9 | user | Maximum current allowed before raising critical alarm for branch 9 |
| branchhicurr10 | user | Maximum current allowed before raising critical alarm for branch 10 |
| branchhicurr11 | user | Maximum current allowed before raising critical alarm for branch 11 |
| branchhicurr12 | user | Maximum current allowed before raising critical alarm for branch 12 |
| branchmaxcurr1 | user | Store of the high threshold value for branch current. for branch 1 |
| branchmaxcurr2 | user | Store of the high threshold value for branch current. for branch 2 |
| branchmaxcurr3 | user | Store of the high threshold value for branch current. for branch 3 |

| Configuration Item | Group | Description |
|---------------------------|--------------|---|
| branchmaxcurr4 | user | Store of the high threshold value for branch current. for branch 4 |
| branchmaxcurr5 | user | Store of the high threshold value for branch current. for branch 5 |
| branchmaxcurr6 | user | Store of the high threshold value for branch current. for branch 6 |
| branchmaxcurr7 | user | Store of the high threshold value for branch current. for branch 7 |
| branchmaxcurr8 | user | Store of the high threshold value for branch current. for branch 8 |
| branchmaxcurr9 | user | Store of the high threshold value for branch current. for branch 9 |
| branchmaxcurr10 | user | Store of the high threshold value for branch current. for branch 10 |
| branchmaxcurr11 | user | Store of the high threshold value for branch current. for branch 11 |
| branchmaxcurr12 | user | Store of the high threshold value for branch current. for branch 12 |
| branchlowvolt1 | user | Minimum voltage allowed before raising critical alarm for branch 1 |
| branchlowvolt2 | user | Minimum voltage allowed before raising critical alarm for branch 2 |
| branchlowvolt3 | user | Minimum voltage allowed before raising critical alarm for branch 3 |
| branchlowvolt4 | user | Minimum voltage allowed before raising critical alarm for branch 4 |
| branchlowvolt5 | user | Minimum voltage allowed before raising critical alarm for branch 5 |
| branchlowvolt6 | user | Minimum voltage allowed before raising critical alarm for branch 6 |
| branchlowvolt7 | user | Minimum voltage allowed before raising critical alarm for branch 7 |
| branchlowvolt8 | user | Minimum voltage allowed before raising critical alarm for branch 8 |
| branchlowvolt9 | user | Minimum voltage allowed before raising critical alarm for branch 9 |
| branchlowvolt10 | user | Minimum voltage allowed before raising critical alarm for branch 10 |
| branchlowvolt11 | user | Minimum voltage allowed before raising critical alarm for branch 11 |
| branchlowvolt12 | user | Minimum voltage allowed before raising critical alarm for branch 12 |

| Configuration Item | Group | Description |
|----------------------------|--------------|--|
| branchwarnlowvolt1 | user | Minimum voltage allowed before raising warning alarm for branch 1 |
| branchwarnlowvolt2 | user | Minimum voltage allowed before raising warning alarm for branch 2 |
| branchwarnlowvolt3 | user | Minimum voltage allowed before raising warning alarm for branch 3 |
| branchwarnlowvolt4 | user | Minimum voltage allowed before raising warning alarm for branch 4 |
| branchwarnlowvolt5 | user | Minimum voltage allowed before raising warning alarm for branch 5 |
| branchwarnlowvolt6 | user | Minimum voltage allowed before raising warning alarm for branch 6 |
| branchwarnlowvolt7 | user | Minimum voltage allowed before raising warning alarm for branch 7 |
| branchwarnlowvolt8 | user | Minimum voltage allowed before raising warning alarm for branch 8 |
| branchwarnlowvolt9 | user | Minimum voltage allowed before raising warning alarm for branch 9 |
| branchwarnlowvolt10 | user | Minimum voltage allowed before raising warning alarm for branch 10 |
| branchwarnlowvolt11 | user | Minimum voltage allowed before raising warning alarm for branch 11 |
| branchwarnlowvolt12 | user | Minimum voltage allowed before raising warning alarm for branch 12 |
| branchwarnhivolt1 | user | Maximum voltage allowed before raising warning alarm for branch 1 |
| branchwarnhivolt2 | user | Maximum voltage allowed before raising warning alarm for branch 2 |
| branchwarnhivolt3 | user | Maximum voltage allowed before raising warning alarm for branch 3 |
| branchwarnhivolt4 | user | Maximum voltage allowed before raising warning alarm for branch 4 |
| branchwarnhivolt5 | user | Maximum voltage allowed before raising warning alarm for branch 5 |
| branchwarnhivolt6 | user | Maximum voltage allowed before raising warning alarm for branch 6 |
| branchwarnhivolt7 | user | Maximum voltage allowed before raising warning alarm for branch 7 |
| branchwarnhivolt8 | user | Maximum voltage allowed before raising warning alarm for branch 8 |
| branchwarnhivolt9 | user | Maximum voltage allowed before raising warning alarm for branch 9 |

| Configuration Item | Group | Description |
|---------------------------|--------------|---|
| branchwarnhivolt10 | user | Maximum voltage allowed before raising warning alarm for branch 10 |
| branchwarnhivolt11 | user | Maximum voltage allowed before raising warning alarm for branch 11 |
| branchwarnhivolt12 | user | Maximum voltage allowed before raising warning alarm for branch 12 |
| branchhivolt1 | user | Maximum voltage allowed before raising critical alarm for branch 1 |
| branchhivolt2 | user | Maximum voltage allowed before raising critical alarm for branch 2 |
| branchhivolt3 | user | Maximum voltage allowed before raising critical alarm for branch 3 |
| branchhivolt4 | user | Maximum voltage allowed before raising critical alarm for branch 4 |
| branchhivolt5 | user | Maximum voltage allowed before raising critical alarm for branch 5 |
| branchhivolt6 | user | Maximum voltage allowed before raising critical alarm for branch 6 |
| branchhivolt7 | user | Maximum voltage allowed before raising critical alarm for branch 7 |
| branchhivolt8 | user | Maximum voltage allowed before raising critical alarm for branch 8 |
| branchhivolt9 | user | Maximum voltage allowed before raising critical alarm for branch 9 |
| branchhivolt10 | user | Maximum voltage allowed before raising critical alarm for branch 10 |
| branchhivolt11 | user | Maximum voltage allowed before raising critical alarm for branch 11 |
| branchhivolt12 | user | Maximum voltage allowed before raising critical alarm for branch 12 |
| receptlowcurr1 | user | Minimum current allowed before raising critical alarm for outlet 1 |
| receptlowcurr2 | user | Minimum current allowed before raising critical alarm for outlet 2 |
| receptlowcurr3 | user | Minimum current allowed before raising critical alarm for outlet 3 |
| receptlowcurr4 | user | Minimum current allowed before raising critical alarm for outlet 4 |
| receptlowcurr5 | user | Minimum current allowed before raising critical alarm for outlet 5 |
| receptlowcurr6 | user | Minimum current allowed before raising critical alarm for outlet 6 |

| Configuration Item | Group | Description |
|---------------------------|--------------|---|
| receplowcurr7 | user | Minimum current allowed before raising critical alarm for outlet 7 |
| receplowcurr8 | user | Minimum current allowed before raising critical alarm for outlet 8 |
| receplowcurr9 | user | Minimum current allowed before raising critical alarm for outlet 9 |
| receplowcurr10 | user | Minimum current allowed before raising critical alarm for outlet 10 |
| receplowcurr11 | user | Minimum current allowed before raising critical alarm for outlet 11 |
| receplowcurr12 | user | Minimum current allowed before raising critical alarm for outlet 12 |
| receplowcurr13 | user | Minimum current allowed before raising critical alarm for outlet 13 |
| receplowcurr14 | user | Minimum current allowed before raising critical alarm for outlet 14 |
| receplowcurr15 | user | Minimum current allowed before raising critical alarm for outlet 15 |
| receplowcurr16 | user | Minimum current allowed before raising critical alarm for outlet 16 |
| receplowcurr17 | user | Minimum current allowed before raising critical alarm for outlet 17 |
| receplowcurr18 | user | Minimum current allowed before raising critical alarm for outlet 18 |
| receplowcurr19 | user | Minimum current allowed before raising critical alarm for outlet 19 |
| receplowcurr20 | user | Minimum current allowed before raising critical alarm for outlet 20 |
| receplowcurr21 | user | Minimum current allowed before raising critical alarm for outlet 21 |
| receplowcurr22 | user | Minimum current allowed before raising critical alarm for outlet 22 |
| receplowcurr23 | user | Minimum current allowed before raising critical alarm for outlet 23 |
| receplowcurr24 | user | Minimum current allowed before raising critical alarm for outlet 24 |
| receplowcurr25 | user | Minimum current allowed before raising critical alarm for outlet 25 |
| receplowcurr26 | user | Minimum current allowed before raising critical alarm for outlet 26 |
| receplowcurr27 | user | Minimum current allowed before raising critical alarm for outlet 27 |

| Configuration Item | Group | Description |
|---------------------------|--------------|---|
| receplowcurr28 | user | Minimum current allowed before raising critical alarm for outlet 28 |
| receplowcurr29 | user | Minimum current allowed before raising critical alarm for outlet 29 |
| receplowcurr30 | user | Minimum current allowed before raising critical alarm for outlet 30 |
| receplowcurr31 | user | Minimum current allowed before raising critical alarm for outlet 31 |
| receplowcurr32 | user | Minimum current allowed before raising critical alarm for outlet 32 |
| receplowcurr33 | user | Minimum current allowed before raising critical alarm for outlet 33 |
| receplowcurr34 | user | Minimum current allowed before raising critical alarm for outlet 34 |
| receplowcurr35 | user | Minimum current allowed before raising critical alarm for outlet 35 |
| receplowcurr36 | user | Minimum current allowed before raising critical alarm for outlet 36 |
| receplowcurr37 | user | Minimum current allowed before raising critical alarm for outlet 37 |
| receplowcurr38 | user | Minimum current allowed before raising critical alarm for outlet 38 |
| receplowcurr39 | user | Minimum current allowed before raising critical alarm for outlet 39 |
| receplowcurr40 | user | Minimum current allowed before raising critical alarm for outlet 40 |
| receplowcurr41 | user | Minimum current allowed before raising critical alarm for outlet 41 |
| receplowcurr42 | user | Minimum current allowed before raising critical alarm for outlet 42 |
| receplowcurr43 | user | Minimum current allowed before raising critical alarm for outlet 43 |
| receplowcurr44 | user | Minimum current allowed before raising critical alarm for outlet 44 |
| receplowcurr45 | user | Minimum current allowed before raising critical alarm for outlet 45 |
| receplowcurr46 | user | Minimum current allowed before raising critical alarm for outlet 46 |
| receplowcurr47 | user | Minimum current allowed before raising critical alarm for outlet 47 |
| receplowcurr48 | user | Minimum current allowed before raising critical alarm for outlet 48 |

| Configuration Item | Group | Description |
|---------------------------|--------------|---|
| receplowcurr49 | user | Minimum current allowed before raising critical alarm for outlet 49 |
| receplowcurr50 | user | Minimum current allowed before raising critical alarm for outlet 50 |
| receplowcurr51 | user | Minimum current allowed before raising critical alarm for outlet 51 |
| receplowcurr52 | user | Minimum current allowed before raising critical alarm for outlet 52 |
| receplowcurr53 | user | Minimum current allowed before raising critical alarm for outlet 53 |
| receplowcurr54 | user | Minimum current allowed before raising critical alarm for outlet 54 |
| receplowcurr55 | user | Minimum current allowed before raising critical alarm for outlet 55 |
| receplowcurr56 | user | Minimum current allowed before raising critical alarm for outlet 56 |
| receplowcurr57 | user | Minimum current allowed before raising critical alarm for outlet 57 |
| receplowcurr58 | user | Minimum current allowed before raising critical alarm for outlet 58 |
| receplowcurr59 | user | Minimum current allowed before raising critical alarm for outlet 59 |
| receplowcurr60 | user | Minimum current allowed before raising critical alarm for outlet 60 |
| receplowcurr61 | user | Minimum current allowed before raising critical alarm for outlet 61 |
| receplowcurr62 | user | Minimum current allowed before raising critical alarm for outlet 62 |
| receplowcurr63 | user | Minimum current allowed before raising critical alarm for outlet 63 |
| receplowcurr64 | user | Minimum current allowed before raising critical alarm for outlet 64 |
| receplowcurr65 | user | Minimum current allowed before raising critical alarm for outlet 65 |
| receplowcurr66 | user | Minimum current allowed before raising critical alarm for outlet 66 |
| receplowcurr67 | user | Minimum current allowed before raising critical alarm for outlet 67 |
| receplowcurr68 | user | Minimum current allowed before raising critical alarm for outlet 68 |
| receplowcurr69 | user | Minimum current allowed before raising critical alarm for outlet 69 |

| Configuration Item | Group | Description |
|---------------------------|--------------|---|
| recepwarnlowcurr70 | user | Minimum current allowed before raising critical alarm for outlet 70 |
| recepwarnlowcurr71 | user | Minimum current allowed before raising critical alarm for outlet 71 |
| recepwarnlowcurr72 | user | Minimum current allowed before raising critical alarm for outlet 72 |
| recepwarnlowcurr1 | user | Minimum current allowed before raising warning alarm for outlet 1 |
| recepwarnlowcurr2 | user | Minimum current allowed before raising warning alarm for outlet 2 |
| recepwarnlowcurr3 | user | Minimum current allowed before raising warning alarm for outlet 3 |
| recepwarnlowcurr4 | user | Minimum current allowed before raising warning alarm for outlet 4 |
| recepwarnlowcurr5 | user | Minimum current allowed before raising warning alarm for outlet 5 |
| recepwarnlowcurr6 | user | Minimum current allowed before raising warning alarm for outlet 6 |
| recepwarnlowcurr7 | user | Minimum current allowed before raising warning alarm for outlet 7 |
| recepwarnlowcurr8 | user | Minimum current allowed before raising warning alarm for outlet 8 |
| recepwarnlowcurr9 | user | Minimum current allowed before raising warning alarm for outlet 9 |
| recepwarnlowcurr10 | user | Minimum current allowed before raising warning alarm for outlet 10 |
| recepwarnlowcurr11 | user | Minimum current allowed before raising warning alarm for outlet 11 |
| recepwarnlowcurr12 | user | Minimum current allowed before raising warning alarm for outlet 12 |
| recepwarnlowcurr13 | user | Minimum current allowed before raising warning alarm for outlet 13 |
| recepwarnlowcurr14 | user | Minimum current allowed before raising warning alarm for outlet 14 |
| recepwarnlowcurr15 | user | Minimum current allowed before raising warning alarm for outlet 15 |
| recepwarnlowcurr16 | user | Minimum current allowed before raising warning alarm for outlet 16 |
| recepwarnlowcurr17 | user | Minimum current allowed before raising warning alarm for outlet 17 |
| recepwarnlowcurr18 | user | Minimum current allowed before raising warning alarm for outlet 18 |

| Configuration Item | Group | Description |
|---------------------------|--------------|--|
| recepwarnlowcurr19 | user | Minimum current allowed before raising warning alarm for outlet 19 |
| recepwarnlowcurr20 | user | Minimum current allowed before raising warning alarm for outlet 20 |
| recepwarnlowcurr21 | user | Minimum current allowed before raising warning alarm for outlet 21 |
| recepwarnlowcurr22 | user | Minimum current allowed before raising warning alarm for outlet 22 |
| recepwarnlowcurr23 | user | Minimum current allowed before raising warning alarm for outlet 23 |
| recepwarnlowcurr24 | user | Minimum current allowed before raising warning alarm for outlet 24 |
| recepwarnlowcurr25 | user | Minimum current allowed before raising warning alarm for outlet 25 |
| recepwarnlowcurr26 | user | Minimum current allowed before raising warning alarm for outlet 26 |
| recepwarnlowcurr27 | user | Minimum current allowed before raising warning alarm for outlet 27 |
| recepwarnlowcurr28 | user | Minimum current allowed before raising warning alarm for outlet 28 |
| recepwarnlowcurr29 | user | Minimum current allowed before raising warning alarm for outlet 29 |
| recepwarnlowcurr30 | user | Minimum current allowed before raising warning alarm for outlet 30 |
| recepwarnlowcurr31 | user | Minimum current allowed before raising warning alarm for outlet 31 |
| recepwarnlowcurr32 | user | Minimum current allowed before raising warning alarm for outlet 32 |
| recepwarnlowcurr33 | user | Minimum current allowed before raising warning alarm for outlet 33 |
| recepwarnlowcurr34 | user | Minimum current allowed before raising warning alarm for outlet 34 |
| recepwarnlowcurr35 | user | Minimum current allowed before raising warning alarm for outlet 35 |
| recepwarnlowcurr36 | user | Minimum current allowed before raising warning alarm for outlet 36 |
| recepwarnlowcurr37 | user | Minimum current allowed before raising warning alarm for outlet 37 |
| recepwarnlowcurr38 | user | Minimum current allowed before raising warning alarm for outlet 38 |
| recepwarnlowcurr39 | user | Minimum current allowed before raising warning alarm for outlet 39 |

| Configuration Item | Group | Description |
|---------------------------|--------------|--|
| recepwarnlowcurr40 | user | Minimum current allowed before raising warning alarm for outlet 40 |
| recepwarnlowcurr41 | user | Minimum current allowed before raising warning alarm for outlet 41 |
| recepwarnlowcurr42 | user | Minimum current allowed before raising warning alarm for outlet 42 |
| recepwarnlowcurr43 | user | Minimum current allowed before raising warning alarm for outlet 43 |
| recepwarnlowcurr44 | user | Minimum current allowed before raising warning alarm for outlet 44 |
| recepwarnlowcurr45 | user | Minimum current allowed before raising warning alarm for outlet 45 |
| recepwarnlowcurr46 | user | Minimum current allowed before raising warning alarm for outlet 46 |
| recepwarnlowcurr47 | user | Minimum current allowed before raising warning alarm for outlet 47 |
| recepwarnlowcurr48 | user | Minimum current allowed before raising warning alarm for outlet 48 |
| recepwarnlowcurr49 | user | Minimum current allowed before raising warning alarm for outlet 49 |
| recepwarnlowcurr50 | user | Minimum current allowed before raising warning alarm for outlet 50 |
| recepwarnlowcurr51 | user | Minimum current allowed before raising warning alarm for outlet 51 |
| recepwarnlowcurr52 | user | Minimum current allowed before raising warning alarm for outlet 52 |
| recepwarnlowcurr53 | user | Minimum current allowed before raising warning alarm for outlet 53 |
| recepwarnlowcurr54 | user | Minimum current allowed before raising warning alarm for outlet 54 |
| recepwarnlowcurr55 | user | Minimum current allowed before raising warning alarm for outlet 55 |
| recepwarnlowcurr56 | user | Minimum current allowed before raising warning alarm for outlet 56 |
| recepwarnlowcurr57 | user | Minimum current allowed before raising warning alarm for outlet 57 |
| recepwarnlowcurr58 | user | Minimum current allowed before raising warning alarm for outlet 58 |
| recepwarnlowcurr59 | user | Minimum current allowed before raising warning alarm for outlet 59 |
| recepwarnlowcurr60 | user | Minimum current allowed before raising warning alarm for outlet 60 |

| Configuration Item | Group | Description |
|---------------------------|--------------|--|
| recepwarnlowcurr61 | user | Minimum current allowed before raising warning alarm for outlet 61 |
| recepwarnlowcurr62 | user | Minimum current allowed before raising warning alarm for outlet 62 |
| recepwarnlowcurr63 | user | Minimum current allowed before raising warning alarm for outlet 63 |
| recepwarnlowcurr64 | user | Minimum current allowed before raising warning alarm for outlet 64 |
| recepwarnlowcurr65 | user | Minimum current allowed before raising warning alarm for outlet 65 |
| recepwarnlowcurr66 | user | Minimum current allowed before raising warning alarm for outlet 66 |
| recepwarnlowcurr67 | user | Minimum current allowed before raising warning alarm for outlet 67 |
| recepwarnlowcurr68 | user | Minimum current allowed before raising warning alarm for outlet 68 |
| recepwarnlowcurr69 | user | Minimum current allowed before raising warning alarm for outlet 69 |
| recepwarnlowcurr70 | user | Minimum current allowed before raising warning alarm for outlet 70 |
| recepwarnlowcurr71 | user | Minimum current allowed before raising warning alarm for outlet 71 |
| recepwarnlowcurr72 | user | Minimum current allowed before raising warning alarm for outlet 72 |
| recepwarnhicurr1 | user | Maximum current allowed before raising warning alarm for outlet 1 |
| recepwarnhicurr2 | user | Maximum current allowed before raising warning alarm for outlet 2 |
| recepwarnhicurr3 | user | Maximum current allowed before raising warning alarm for outlet 3 |
| recepwarnhicurr4 | user | Maximum current allowed before raising warning alarm for outlet 4 |
| recepwarnhicurr5 | user | Maximum current allowed before raising warning alarm for outlet 5 |
| recepwarnhicurr6 | user | Maximum current allowed before raising warning alarm for outlet 6 |
| recepwarnhicurr7 | user | Maximum current allowed before raising warning alarm for outlet 7 |
| recepwarnhicurr8 | user | Maximum current allowed before raising warning alarm for outlet 8 |
| recepwarnhicurr9 | user | Maximum current allowed before raising warning alarm for outlet 9 |

| Configuration Item | Group | Description |
|---------------------------|--------------|--|
| recepwarnhicurr10 | user | Maximum current allowed before raising warning alarm for outlet 10 |
| recepwarnhicurr11 | user | Maximum current allowed before raising warning alarm for outlet 11 |
| recepwarnhicurr12 | user | Maximum current allowed before raising warning alarm for outlet 12 |
| recepwarnhicurr13 | user | Maximum current allowed before raising warning alarm for outlet 13 |
| recepwarnhicurr14 | user | Maximum current allowed before raising warning alarm for outlet 14 |
| recepwarnhicurr15 | user | Maximum current allowed before raising warning alarm for outlet 15 |
| recepwarnhicurr16 | user | Maximum current allowed before raising warning alarm for outlet 16 |
| recepwarnhicurr17 | user | Maximum current allowed before raising warning alarm for outlet 17 |
| recepwarnhicurr18 | user | Maximum current allowed before raising warning alarm for outlet 18 |
| recepwarnhicurr19 | user | Maximum current allowed before raising warning alarm for outlet 19 |
| recepwarnhicurr20 | user | Maximum current allowed before raising warning alarm for outlet 20 |
| recepwarnhicurr21 | user | Maximum current allowed before raising warning alarm for outlet 21 |
| recepwarnhicurr22 | user | Maximum current allowed before raising warning alarm for outlet 22 |
| recepwarnhicurr23 | user | Maximum current allowed before raising warning alarm for outlet 23 |
| recepwarnhicurr24 | user | Maximum current allowed before raising warning alarm for outlet 24 |
| recepwarnhicurr25 | user | Maximum current allowed before raising warning alarm for outlet 25 |
| recepwarnhicurr26 | user | Maximum current allowed before raising warning alarm for outlet 26 |
| recepwarnhicurr27 | user | Maximum current allowed before raising warning alarm for outlet 27 |
| recepwarnhicurr28 | user | Maximum current allowed before raising warning alarm for outlet 28 |
| recepwarnhicurr29 | user | Maximum current allowed before raising warning alarm for outlet 29 |
| recepwarnhicurr30 | user | Maximum current allowed before raising warning alarm for outlet 30 |

| Configuration Item | Group | Description |
|---------------------------|--------------|--|
| recepwarnhicurr31 | user | Maximum current allowed before raising warning alarm for outlet 31 |
| recepwarnhicurr32 | user | Maximum current allowed before raising warning alarm for outlet 32 |
| recepwarnhicurr33 | user | Maximum current allowed before raising warning alarm for outlet 33 |
| recepwarnhicurr34 | user | Maximum current allowed before raising warning alarm for outlet 34 |
| recepwarnhicurr35 | user | Maximum current allowed before raising warning alarm for outlet 35 |
| recepwarnhicurr36 | user | Maximum current allowed before raising warning alarm for outlet 36 |
| recepwarnhicurr37 | user | Maximum current allowed before raising warning alarm for outlet 37 |
| recepwarnhicurr38 | user | Maximum current allowed before raising warning alarm for outlet 38 |
| recepwarnhicurr39 | user | Maximum current allowed before raising warning alarm for outlet 39 |
| recepwarnhicurr40 | user | Maximum current allowed before raising warning alarm for outlet 40 |
| recepwarnhicurr41 | user | Maximum current allowed before raising warning alarm for outlet 41 |
| recepwarnhicurr42 | user | Maximum current allowed before raising warning alarm for outlet 42 |
| recepwarnhicurr43 | user | Maximum current allowed before raising warning alarm for outlet 43 |
| recepwarnhicurr44 | user | Maximum current allowed before raising warning alarm for outlet 44 |
| recepwarnhicurr45 | user | Maximum current allowed before raising warning alarm for outlet 45 |
| recepwarnhicurr46 | user | Maximum current allowed before raising warning alarm for outlet 46 |
| recepwarnhicurr47 | user | Maximum current allowed before raising warning alarm for outlet 47 |
| recepwarnhicurr48 | user | Maximum current allowed before raising warning alarm for outlet 48 |
| recepwarnhicurr49 | user | Maximum current allowed before raising warning alarm for outlet 49 |
| recepwarnhicurr50 | user | Maximum current allowed before raising warning alarm for outlet 50 |
| recepwarnhicurr51 | user | Maximum current allowed before raising warning alarm for outlet 51 |

| Configuration Item | Group | Description |
|---------------------------|--------------|--|
| recepwarnhicurr52 | user | Maximum current allowed before raising warning alarm for outlet 52 |
| recepwarnhicurr53 | user | Maximum current allowed before raising warning alarm for outlet 53 |
| recepwarnhicurr54 | user | Maximum current allowed before raising warning alarm for outlet 54 |
| recepwarnhicurr55 | user | Maximum current allowed before raising warning alarm for outlet 55 |
| recepwarnhicurr56 | user | Maximum current allowed before raising warning alarm for outlet 56 |
| recepwarnhicurr57 | user | Maximum current allowed before raising warning alarm for outlet 57 |
| recepwarnhicurr58 | user | Maximum current allowed before raising warning alarm for outlet 58 |
| recepwarnhicurr59 | user | Maximum current allowed before raising warning alarm for outlet 59 |
| recepwarnhicurr60 | user | Maximum current allowed before raising warning alarm for outlet 60 |
| recepwarnhicurr61 | user | Maximum current allowed before raising warning alarm for outlet 61 |
| recepwarnhicurr62 | user | Maximum current allowed before raising warning alarm for outlet 62 |
| recepwarnhicurr63 | user | Maximum current allowed before raising warning alarm for outlet 63 |
| recepwarnhicurr64 | user | Maximum current allowed before raising warning alarm for outlet 64 |
| recepwarnhicurr65 | user | Maximum current allowed before raising warning alarm for outlet 65 |
| recepwarnhicurr66 | user | Maximum current allowed before raising warning alarm for outlet 66 |
| recepwarnhicurr67 | user | Maximum current allowed before raising warning alarm for outlet 67 |
| recepwarnhicurr68 | user | Maximum current allowed before raising warning alarm for outlet 68 |
| recepwarnhicurr69 | user | Maximum current allowed before raising warning alarm for outlet 69 |
| recepwarnhicurr70 | user | Maximum current allowed before raising warning alarm for outlet 70 |
| recepwarnhicurr71 | user | Maximum current allowed before raising warning alarm for outlet 71 |
| recepwarnhicurr72 | user | Maximum current allowed before raising warning alarm for outlet 72 |

| Configuration Item | Group | Description |
|---------------------------|--------------|---|
| recephicurr1 | user | Maximum current allowed before raising critical alarm for outlet 1 |
| recephicurr2 | user | Maximum current allowed before raising critical alarm for outlet 2 |
| recephicurr3 | user | Maximum current allowed before raising critical alarm for outlet 3 |
| recephicurr4 | user | Maximum current allowed before raising critical alarm for outlet 4 |
| recephicurr5 | user | Maximum current allowed before raising critical alarm for outlet 5 |
| recephicurr6 | user | Maximum current allowed before raising critical alarm for outlet 6 |
| recephicurr7 | user | Maximum current allowed before raising critical alarm for outlet 7 |
| recephicurr8 | user | Maximum current allowed before raising critical alarm for outlet 8 |
| recephicurr9 | user | Maximum current allowed before raising critical alarm for outlet 9 |
| recephicurr10 | user | Maximum current allowed before raising critical alarm for outlet 10 |
| recephicurr11 | user | Maximum current allowed before raising critical alarm for outlet 11 |
| recephicurr12 | user | Maximum current allowed before raising critical alarm for outlet 12 |
| recephicurr13 | user | Maximum current allowed before raising critical alarm for outlet 13 |
| recephicurr14 | user | Maximum current allowed before raising critical alarm for outlet 14 |
| recephicurr15 | user | Maximum current allowed before raising critical alarm for outlet 15 |
| recephicurr16 | user | Maximum current allowed before raising critical alarm for outlet 16 |
| recephicurr17 | user | Maximum current allowed before raising critical alarm for outlet 17 |
| recephicurr18 | user | Maximum current allowed before raising critical alarm for outlet 18 |
| recephicurr19 | user | Maximum current allowed before raising critical alarm for outlet 19 |
| recephicurr20 | user | Maximum current allowed before raising critical alarm for outlet 20 |
| recephicurr21 | user | Maximum current allowed before raising critical alarm for outlet 21 |

| Configuration Item | Group | Description |
|---------------------------|--------------|---|
| recephicurr22 | user | Maximum current allowed before raising critical alarm for outlet 22 |
| recephicurr23 | user | Maximum current allowed before raising critical alarm for outlet 23 |
| recephicurr24 | user | Maximum current allowed before raising critical alarm for outlet 24 |
| recephicurr25 | user | Maximum current allowed before raising critical alarm for outlet 25 |
| recephicurr26 | user | Maximum current allowed before raising critical alarm for outlet 26 |
| recephicurr27 | user | Maximum current allowed before raising critical alarm for outlet 27 |
| recephicurr28 | user | Maximum current allowed before raising critical alarm for outlet 28 |
| recephicurr29 | user | Maximum current allowed before raising critical alarm for outlet 29 |
| recephicurr30 | user | Maximum current allowed before raising critical alarm for outlet 30 |
| recephicurr31 | user | Maximum current allowed before raising critical alarm for outlet 31 |
| recephicurr32 | user | Maximum current allowed before raising critical alarm for outlet 32 |
| recephicurr33 | user | Maximum current allowed before raising critical alarm for outlet 33 |
| recephicurr34 | user | Maximum current allowed before raising critical alarm for outlet 34 |
| recephicurr35 | user | Maximum current allowed before raising critical alarm for outlet 35 |
| recephicurr36 | user | Maximum current allowed before raising critical alarm for outlet 36 |
| recephicurr37 | user | Maximum current allowed before raising critical alarm for outlet 37 |
| recephicurr38 | user | Maximum current allowed before raising critical alarm for outlet 38 |
| recephicurr39 | user | Maximum current allowed before raising critical alarm for outlet 39 |
| recephicurr40 | user | Maximum current allowed before raising critical alarm for outlet 40 |
| recephicurr41 | user | Maximum current allowed before raising critical alarm for outlet 41 |
| recephicurr42 | user | Maximum current allowed before raising critical alarm for outlet 42 |

| Configuration Item | Group | Description |
|---------------------------|--------------|---|
| recephicurr43 | user | Maximum current allowed before raising critical alarm for outlet 43 |
| recephicurr44 | user | Maximum current allowed before raising critical alarm for outlet 44 |
| recephicurr45 | user | Maximum current allowed before raising critical alarm for outlet 45 |
| recephicurr46 | user | Maximum current allowed before raising critical alarm for outlet 46 |
| recephicurr47 | user | Maximum current allowed before raising critical alarm for outlet 47 |
| recephicurr48 | user | Maximum current allowed before raising critical alarm for outlet 48 |
| recephicurr49 | user | Maximum current allowed before raising critical alarm for outlet 49 |
| recephicurr50 | user | Maximum current allowed before raising critical alarm for outlet 50 |
| recephicurr51 | user | Maximum current allowed before raising critical alarm for outlet 51 |
| recephicurr52 | user | Maximum current allowed before raising critical alarm for outlet 52 |
| recephicurr53 | user | Maximum current allowed before raising critical alarm for outlet 53 |
| recephicurr54 | user | Maximum current allowed before raising critical alarm for outlet 54 |
| recephicurr55 | user | Maximum current allowed before raising critical alarm for outlet 55 |
| recephicurr56 | user | Maximum current allowed before raising critical alarm for outlet 56 |
| recephicurr57 | user | Maximum current allowed before raising critical alarm for outlet 57 |
| recephicurr58 | user | Maximum current allowed before raising critical alarm for outlet 58 |
| recephicurr59 | user | Maximum current allowed before raising critical alarm for outlet 59 |
| recephicurr60 | user | Maximum current allowed before raising critical alarm for outlet 60 |
| recephicurr61 | user | Maximum current allowed before raising critical alarm for outlet 61 |
| recephicurr62 | user | Maximum current allowed before raising critical alarm for outlet 62 |
| recephicurr63 | user | Maximum current allowed before raising critical alarm for outlet 63 |

| Configuration Item | Group | Description |
|---------------------------|--------------|---|
| recephicurr64 | user | Maximum current allowed before raising critical alarm for outlet 64 |
| recephicurr65 | user | Maximum current allowed before raising critical alarm for outlet 65 |
| recephicurr66 | user | Maximum current allowed before raising critical alarm for outlet 66 |
| recephicurr67 | user | Maximum current allowed before raising critical alarm for outlet 67 |
| recephicurr68 | user | Maximum current allowed before raising critical alarm for outlet 68 |
| recephicurr69 | user | Maximum current allowed before raising critical alarm for outlet 69 |
| recephicurr70 | user | Maximum current allowed before raising critical alarm for outlet 70 |
| recephicurr71 | user | Maximum current allowed before raising critical alarm for outlet 71 |
| recephicurr72 | user | Maximum current allowed before raising critical alarm for outlet 72 |
| recepccritcurr1 | user | Store of the high threshold value for outlet current for outlet 1 |
| recepccritcurr2 | user | Store of the high threshold value for outlet current for outlet 2 |
| recepccritcurr3 | user | Store of the high threshold value for outlet current for outlet 3 |
| recepccritcurr4 | user | Store of the high threshold value for outlet current for outlet 4 |
| recepccritcurr5 | user | Store of the high threshold value for outlet current for outlet 5 |
| recepccritcurr6 | user | Store of the high threshold value for outlet current for outlet 6 |
| recepccritcurr7 | user | Store of the high threshold value for outlet current for outlet 7 |
| recepccritcurr8 | user | Store of the high threshold value for outlet current for outlet 8 |
| recepccritcurr9 | user | Store of the high threshold value for outlet current for outlet 9 |
| recepccritcurr10 | user | Store of the high threshold value for outlet current for outlet 10 |
| recepccritcurr11 | user | Store of the high threshold value for outlet current for outlet 11 |
| recepccritcurr12 | user | Store of the high threshold value for outlet current for outlet 12 |

| Configuration Item | Group | Description |
|---------------------------|--------------|--|
| repepcritcurr13 | user | Store of the high threshold value for outlet current for outlet 13 |
| repepcritcurr14 | user | Store of the high threshold value for outlet current for outlet 14 |
| repepcritcurr15 | user | Store of the high threshold value for outlet current for outlet 15 |
| repepcritcurr16 | user | Store of the high threshold value for outlet current for outlet 16 |
| repepcritcurr17 | user | Store of the high threshold value for outlet current for outlet 17 |
| repepcritcurr18 | user | Store of the high threshold value for outlet current for outlet 18 |
| repepcritcurr19 | user | Store of the high threshold value for outlet current for outlet 19 |
| repepcritcurr20 | user | Store of the high threshold value for outlet current for outlet 20 |
| repepcritcurr21 | user | Store of the high threshold value for outlet current for outlet 21 |
| repepcritcurr22 | user | Store of the high threshold value for outlet current for outlet 22 |
| repepcritcurr23 | user | Store of the high threshold value for outlet current for outlet 23 |
| repepcritcurr24 | user | Store of the high threshold value for outlet current for outlet 24 |
| repepcritcurr25 | user | Store of the high threshold value for outlet current for outlet 25 |
| repepcritcurr26 | user | Store of the high threshold value for outlet current for outlet 26 |
| repepcritcurr27 | user | Store of the high threshold value for outlet current for outlet 27 |
| repepcritcurr28 | user | Store of the high threshold value for outlet current for outlet 28 |
| repepcritcurr29 | user | Store of the high threshold value for outlet current for outlet 29 |
| repepcritcurr30 | user | Store of the high threshold value for outlet current for outlet 30 |
| repepcritcurr31 | user | Store of the high threshold value for outlet current for outlet 31 |
| repepcritcurr32 | user | Store of the high threshold value for outlet current for outlet 32 |
| repepcritcurr33 | user | Store of the high threshold value for outlet current for outlet 33 |

| Configuration Item | Group | Description |
|---------------------------|--------------|--|
| repepcritcurr34 | user | Store of the high threshold value for outlet current for outlet 34 |
| repepcritcurr35 | user | Store of the high threshold value for outlet current for outlet 35 |
| repepcritcurr36 | user | Store of the high threshold value for outlet current for outlet 36 |
| repepcritcurr37 | user | Store of the high threshold value for outlet current for outlet 37 |
| repepcritcurr38 | user | Store of the high threshold value for outlet current for outlet 38 |
| repepcritcurr39 | user | Store of the high threshold value for outlet current for outlet 39 |
| repepcritcurr40 | user | Store of the high threshold value for outlet current for outlet 40 |
| repepcritcurr41 | user | Store of the high threshold value for outlet current for outlet 41 |
| repepcritcurr42 | user | Store of the high threshold value for outlet current for outlet 42 |
| repepcritcurr43 | user | Store of the high threshold value for outlet current for outlet 43 |
| repepcritcurr44 | user | Store of the high threshold value for outlet current for outlet 44 |
| repepcritcurr45 | user | Store of the high threshold value for outlet current for outlet 45 |
| repepcritcurr46 | user | Store of the high threshold value for outlet current for outlet 46 |
| repepcritcurr47 | user | Store of the high threshold value for outlet current for outlet 47 |
| repepcritcurr48 | user | Store of the high threshold value for outlet current for outlet 48 |
| repepcritcurr49 | user | Store of the high threshold value for outlet current for outlet 49 |
| repepcritcurr50 | user | Store of the high threshold value for outlet current for outlet 50 |
| repepcritcurr51 | user | Store of the high threshold value for outlet current for outlet 51 |
| repepcritcurr52 | user | Store of the high threshold value for outlet current for outlet 52 |
| repepcritcurr53 | user | Store of the high threshold value for outlet current for outlet 53 |
| repepcritcurr54 | user | Store of the high threshold value for outlet current for outlet 54 |

| Configuration Item | Group | Description |
|---------------------------|--------------|--|
| repepcritcurr55 | user | Store of the high threshold value for outlet current for outlet 55 |
| repepcritcurr56 | user | Store of the high threshold value for outlet current for outlet 56 |
| repepcritcurr57 | user | Store of the high threshold value for outlet current for outlet 57 |
| repepcritcurr58 | user | Store of the high threshold value for outlet current for outlet 58 |
| repepcritcurr59 | user | Store of the high threshold value for outlet current for outlet 59 |
| repepcritcurr60 | user | Store of the high threshold value for outlet current for outlet 60 |
| repepcritcurr61 | user | Store of the high threshold value for outlet current for outlet 61 |
| repepcritcurr62 | user | Store of the high threshold value for outlet current for outlet 62 |
| repepcritcurr63 | user | Store of the high threshold value for outlet current for outlet 63 |
| repepcritcurr64 | user | Store of the high threshold value for outlet current for outlet 64 |
| repepcritcurr65 | user | Store of the high threshold value for outlet current for outlet 65 |
| repepcritcurr66 | user | Store of the high threshold value for outlet current for outlet 66 |
| repepcritcurr67 | user | Store of the high threshold value for outlet current for outlet 67 |
| repepcritcurr68 | user | Store of the high threshold value for outlet current for outlet 68 |
| repepcritcurr69 | user | Store of the high threshold value for outlet current for outlet 69 |
| repepcritcurr70 | user | Store of the high threshold value for outlet current for outlet 70 |
| repepcritcurr71 | user | Store of the high threshold value for outlet current for outlet 71 |
| repepcritcurr72 | user | Store of the high threshold value for outlet current for outlet 72 |
| repepname1 | user | Outlet Name label for outlet 1 |
| repepname2 | user | Outlet Name label for outlet 2 |
| repepname3 | user | Outlet Name label for outlet 3 |
| repepname4 | user | Outlet Name label for outlet 4 |
| repepname5 | user | Outlet Name label for outlet 5 |
| repepname6 | user | Outlet Name label for outlet 6 |

| Configuration Item | Group | Description |
|---------------------------|--------------|---------------------------------|
| recepname7 | user | Outlet Name label for outlet 7 |
| recepname8 | user | Outlet Name label for outlet 8 |
| recepname9 | user | Outlet Name label for outlet 9 |
| recepname10 | user | Outlet Name label for outlet 10 |
| recepname11 | user | Outlet Name label for outlet 11 |
| recepname12 | user | Outlet Name label for outlet 12 |
| recepname13 | user | Outlet Name label for outlet 13 |
| recepname14 | user | Outlet Name label for outlet 14 |
| recepname15 | user | Outlet Name label for outlet 15 |
| recepname16 | user | Outlet Name label for outlet 16 |
| recepname17 | user | Outlet Name label for outlet 17 |
| recepname18 | user | Outlet Name label for outlet 18 |
| recepname19 | user | Outlet Name label for outlet 19 |
| recepname20 | user | Outlet Name label for outlet 20 |
| recepname21 | user | Outlet Name label for outlet 21 |
| recepname22 | user | Outlet Name label for outlet 22 |
| recepname23 | user | Outlet Name label for outlet 23 |
| recepname24 | user | Outlet Name label for outlet 24 |
| recepname25 | user | Outlet Name label for outlet 25 |
| recepname26 | user | Outlet Name label for outlet 26 |
| recepname27 | user | Outlet Name label for outlet 27 |
| recepname28 | user | Outlet Name label for outlet 28 |
| recepname29 | user | Outlet Name label for outlet 29 |
| recepname30 | user | Outlet Name label for outlet 30 |
| recepname31 | user | Outlet Name label for outlet 31 |
| recepname32 | user | Outlet Name label for outlet 32 |
| recepname33 | user | Outlet Name label for outlet 33 |
| recepname34 | user | Outlet Name label for outlet 34 |
| recepname35 | user | Outlet Name label for outlet 35 |
| recepname36 | user | Outlet Name label for outlet 36 |
| recepname37 | user | Outlet Name label for outlet 37 |
| recepname38 | user | Outlet Name label for outlet 38 |
| recepname39 | user | Outlet Name label for outlet 39 |
| recepname40 | user | Outlet Name label for outlet 40 |
| recepname41 | user | Outlet Name label for outlet 41 |
| recepname42 | user | Outlet Name label for outlet 42 |
| recepname43 | user | Outlet Name label for outlet 43 |
| recepname44 | user | Outlet Name label for outlet 44 |
| recepname45 | user | Outlet Name label for outlet 45 |
| recepname46 | user | Outlet Name label for outlet 46 |
| recepname47 | user | Outlet Name label for outlet 47 |
| recepname48 | user | Outlet Name label for outlet 48 |

| Configuration Item | Group | Description |
|---------------------------|--------------|--|
| recepname49 | user | Outlet Name label for outlet 49 |
| recepname50 | user | Outlet Name label for outlet 50 |
| recepname51 | user | Outlet Name label for outlet 51 |
| recepname52 | user | Outlet Name label for outlet 52 |
| recepname53 | user | Outlet Name label for outlet 53 |
| recepname54 | user | Outlet Name label for outlet 54 |
| recepname55 | user | Outlet Name label for outlet 55 |
| recepname56 | user | Outlet Name label for outlet 56 |
| recepname57 | user | Outlet Name label for outlet 57 |
| recepname58 | user | Outlet Name label for outlet 58 |
| recepname59 | user | Outlet Name label for outlet 59 |
| recepname60 | user | Outlet Name label for outlet 60 |
| recepname61 | user | Outlet Name label for outlet 61 |
| recepname62 | user | Outlet Name label for outlet 62 |
| recepname63 | user | Outlet Name label for outlet 63 |
| recepname64 | user | Outlet Name label for outlet 64 |
| recepname65 | user | Outlet Name label for outlet 65 |
| recepname66 | user | Outlet Name label for outlet 66 |
| recepname67 | user | Outlet Name label for outlet 67 |
| recepname68 | user | Outlet Name label for outlet 68 |
| recepname69 | user | Outlet Name label for outlet 69 |
| recepname70 | user | Outlet Name label for outlet 70 |
| recepname71 | user | Outlet Name label for outlet 71 |
| recepname72 | user | Outlet Name label for outlet 72 |
| recepdescription1 | user | Outlet Description label for outlet 1 |
| recepdescription2 | user | Outlet Description label for outlet 2 |
| recepdescription3 | user | Outlet Description label for outlet 3 |
| recepdescription4 | user | Outlet Description label for outlet 4 |
| recepdescription5 | user | Outlet Description label for outlet 5 |
| recepdescription6 | user | Outlet Description label for outlet 6 |
| recepdescription7 | user | Outlet Description label for outlet 7 |
| recepdescription8 | user | Outlet Description label for outlet 8 |
| recepdescription9 | user | Outlet Description label for outlet 9 |
| recepdescription10 | user | Outlet Description label for outlet 10 |
| recepdescription11 | user | Outlet Description label for outlet 11 |
| recepdescription12 | user | Outlet Description label for outlet 12 |
| recepdescription13 | user | Outlet Description label for outlet 13 |
| recepdescription14 | user | Outlet Description label for outlet 14 |
| recepdescription15 | user | Outlet Description label for outlet 15 |
| recepdescription16 | user | Outlet Description label for outlet 16 |
| recepdescription17 | user | Outlet Description label for outlet 17 |
| recepdescription18 | user | Outlet Description label for outlet 18 |

| Configuration Item | Group | Description |
|---------------------------|--------------|--|
| recepdescription19 | user | Outlet Description label for outlet 19 |
| recepdescription20 | user | Outlet Description label for outlet 20 |
| recepdescription21 | user | Outlet Description label for outlet 21 |
| recepdescription22 | user | Outlet Description label for outlet 22 |
| recepdescription23 | user | Outlet Description label for outlet 23 |
| recepdescription24 | user | Outlet Description label for outlet 24 |
| recepdescription25 | user | Outlet Description label for outlet 25 |
| recepdescription26 | user | Outlet Description label for outlet 26 |
| recepdescription27 | user | Outlet Description label for outlet 27 |
| recepdescription28 | user | Outlet Description label for outlet 28 |
| recepdescription29 | user | Outlet Description label for outlet 29 |
| recepdescription30 | user | Outlet Description label for outlet 30 |
| recepdescription31 | user | Outlet Description label for outlet 31 |
| recepdescription32 | user | Outlet Description label for outlet 32 |
| recepdescription33 | user | Outlet Description label for outlet 33 |
| recepdescription34 | user | Outlet Description label for outlet 34 |
| recepdescription35 | user | Outlet Description label for outlet 35 |
| recepdescription36 | user | Outlet Description label for outlet 36 |
| recepdescription37 | user | Outlet Description label for outlet 37 |
| recepdescription38 | user | Outlet Description label for outlet 38 |
| recepdescription39 | user | Outlet Description label for outlet 39 |
| recepdescription40 | user | Outlet Description label for outlet 40 |
| recepdescription41 | user | Outlet Description label for outlet 41 |
| recepdescription42 | user | Outlet Description label for outlet 42 |
| recepdescription43 | user | Outlet Description label for outlet 43 |
| recepdescription44 | user | Outlet Description label for outlet 44 |
| recepdescription45 | user | Outlet Description label for outlet 45 |
| recepdescription46 | user | Outlet Description label for outlet 46 |
| recepdescription47 | user | Outlet Description label for outlet 47 |
| recepdescription48 | user | Outlet Description label for outlet 48 |
| recepdescription49 | user | Outlet Description label for outlet 49 |
| recepdescription50 | user | Outlet Description label for outlet 50 |
| recepdescription51 | user | Outlet Description label for outlet 51 |
| recepdescription52 | user | Outlet Description label for outlet 52 |
| recepdescription53 | user | Outlet Description label for outlet 53 |
| recepdescription54 | user | Outlet Description label for outlet 54 |
| recepdescription55 | user | Outlet Description label for outlet 55 |
| recepdescription56 | user | Outlet Description label for outlet 56 |
| recepdescription57 | user | Outlet Description label for outlet 57 |
| recepdescription58 | user | Outlet Description label for outlet 58 |
| recepdescription59 | user | Outlet Description label for outlet 59 |
| recepdescription60 | user | Outlet Description label for outlet 60 |

| Configuration Item | Group | Description |
|---------------------------|--------------|---|
| recepdescription61 | user | Outlet Description label for outlet 61 |
| recepdescription62 | user | Outlet Description label for outlet 62 |
| recepdescription63 | user | Outlet Description label for outlet 63 |
| recepdescription64 | user | Outlet Description label for outlet 64 |
| recepdescription65 | user | Outlet Description label for outlet 65 |
| recepdescription66 | user | Outlet Description label for outlet 66 |
| recepdescription67 | user | Outlet Description label for outlet 67 |
| recepdescription68 | user | Outlet Description label for outlet 68 |
| recepdescription69 | user | Outlet Description label for outlet 69 |
| recepdescription70 | user | Outlet Description label for outlet 70 |
| recepdescription71 | user | Outlet Description label for outlet 71 |
| recepdescription72 | user | Outlet Description label for outlet 72 |
| recepstate1 | user | Store of the power up state of the outlet for outlet 1 |
| recepstate2 | user | Store of the power up state of the outlet for outlet 2 |
| recepstate3 | user | Store of the power up state of the outlet for outlet 3 |
| recepstate4 | user | Store of the power up state of the outlet for outlet 4 |
| recepstate5 | user | Store of the power up state of the outlet for outlet 5 |
| recepstate6 | user | Store of the power up state of the outlet for outlet 6 |
| recepstate7 | user | Store of the power up state of the outlet for outlet 7 |
| recepstate8 | user | Store of the power up state of the outlet for outlet 8 |
| recepstate9 | user | Store of the power up state of the outlet for outlet 9 |
| recepstate10 | user | Store of the power up state of the outlet for outlet 10 |
| recepstate11 | user | Store of the power up state of the outlet for outlet 11 |
| recepstate12 | user | Store of the power up state of the outlet for outlet 12 |
| recepstate13 | user | Store of the power up state of the outlet for outlet 13 |
| recepstate14 | user | Store of the power up state of the outlet for outlet 14 |
| recepstate15 | user | Store of the power up state of the outlet for outlet 15 |

| Configuration Item | Group | Description |
|---------------------------|--------------|---|
| recepstate16 | user | Store of the power up state of the outlet for outlet 16 |
| recepstate17 | user | Store of the power up state of the outlet for outlet 17 |
| recepstate18 | user | Store of the power up state of the outlet for outlet 18 |
| recepstate19 | user | Store of the power up state of the outlet for outlet 19 |
| recepstate20 | user | Store of the power up state of the outlet for outlet 20 |
| recepstate21 | user | Store of the power up state of the outlet for outlet 21 |
| recepstate22 | user | Store of the power up state of the outlet for outlet 22 |
| recepstate23 | user | Store of the power up state of the outlet for outlet 23 |
| recepstate24 | user | Store of the power up state of the outlet for outlet 24 |
| recepstate25 | user | Store of the power up state of the outlet for outlet 25 |
| recepstate26 | user | Store of the power up state of the outlet for outlet 26 |
| recepstate27 | user | Store of the power up state of the outlet for outlet 27 |
| recepstate28 | user | Store of the power up state of the outlet for outlet 28 |
| recepstate29 | user | Store of the power up state of the outlet for outlet 29 |
| recepstate30 | user | Store of the power up state of the outlet for outlet 30 |
| recepstate31 | user | Store of the power up state of the outlet for outlet 31 |
| recepstate32 | user | Store of the power up state of the outlet for outlet 32 |
| recepstate33 | user | Store of the power up state of the outlet for outlet 33 |
| recepstate34 | user | Store of the power up state of the outlet for outlet 34 |
| recepstate35 | user | Store of the power up state of the outlet for outlet 35 |
| recepstate36 | user | Store of the power up state of the outlet for outlet 36 |

| Configuration Item | Group | Description |
|---------------------------|--------------|---|
| recepstate37 | user | Store of the power up state of the outlet for outlet 37 |
| recepstate38 | user | Store of the power up state of the outlet for outlet 38 |
| recepstate39 | user | Store of the power up state of the outlet for outlet 39 |
| recepstate40 | user | Store of the power up state of the outlet for outlet 40 |
| recepstate41 | user | Store of the power up state of the outlet for outlet 41 |
| recepstate42 | user | Store of the power up state of the outlet for outlet 42 |
| recepstate43 | user | Store of the power up state of the outlet for outlet 43 |
| recepstate44 | user | Store of the power up state of the outlet for outlet 44 |
| recepstate45 | user | Store of the power up state of the outlet for outlet 45 |
| recepstate46 | user | Store of the power up state of the outlet for outlet 46 |
| recepstate47 | user | Store of the power up state of the outlet for outlet 47 |
| recepstate48 | user | Store of the power up state of the outlet for outlet 48 |
| recepstate49 | user | Store of the power up state of the outlet for outlet 49 |
| recepstate50 | user | Store of the power up state of the outlet for outlet 50 |
| recepstate51 | user | Store of the power up state of the outlet for outlet 51 |
| recepstate52 | user | Store of the power up state of the outlet for outlet 52 |
| recepstate53 | user | Store of the power up state of the outlet for outlet 53 |
| recepstate54 | user | Store of the power up state of the outlet for outlet 54 |
| recepstate55 | user | Store of the power up state of the outlet for outlet 55 |
| recepstate56 | user | Store of the power up state of the outlet for outlet 56 |
| recepstate57 | user | Store of the power up state of the outlet for outlet 57 |

| Configuration Item | Group | Description |
|---------------------------|--------------|---|
| recepstate58 | user | Store of the power up state of the outlet for outlet 58 |
| recepstate59 | user | Store of the power up state of the outlet for outlet 59 |
| recepstate60 | user | Store of the power up state of the outlet for outlet 60 |
| recepstate61 | user | Store of the power up state of the outlet for outlet 61 |
| recepstate62 | user | Store of the power up state of the outlet for outlet 62 |
| recepstate63 | user | Store of the power up state of the outlet for outlet 63 |
| recepstate64 | user | Store of the power up state of the outlet for outlet 64 |
| recepstate65 | user | Store of the power up state of the outlet for outlet 65 |
| recepstate66 | user | Store of the power up state of the outlet for outlet 66 |
| recepstate67 | user | Store of the power up state of the outlet for outlet 67 |
| recepstate68 | user | Store of the power up state of the outlet for outlet 68 |
| recepstate69 | user | Store of the power up state of the outlet for outlet 69 |
| recepstate70 | user | Store of the power up state of the outlet for outlet 70 |
| recepstate71 | user | Store of the power up state of the outlet for outlet 71 |
| recepstate72 | user | Store of the power up state of the outlet for outlet 72 |
| recepresettime1 | user | Configured time to stay off when issuing a reset for outlet 1 |
| recepresettime2 | user | Configured time to stay off when issuing a reset for outlet 2 |
| recepresettime3 | user | Configured time to stay off when issuing a reset for outlet 3 |
| recepresettime4 | user | Configured time to stay off when issuing a reset for outlet 4 |
| recepresettime5 | user | Configured time to stay off when issuing a reset for outlet 5 |
| recepresettime6 | user | Configured time to stay off when issuing a reset for outlet 6 |

| Configuration Item | Group | Description |
|---------------------------|--------------|--|
| receptresettime7 | user | Configured time to stay off when issuing a reset for outlet 7 |
| receptresettime8 | user | Configured time to stay off when issuing a reset for outlet 8 |
| receptresettime9 | user | Configured time to stay off when issuing a reset for outlet 9 |
| receptresettime10 | user | Configured time to stay off when issuing a reset for outlet 10 |
| receptresettime11 | user | Configured time to stay off when issuing a reset for outlet 11 |
| receptresettime12 | user | Configured time to stay off when issuing a reset for outlet 12 |
| receptresettime13 | user | Configured time to stay off when issuing a reset for outlet 13 |
| receptresettime14 | user | Configured time to stay off when issuing a reset for outlet 14 |
| receptresettime15 | user | Configured time to stay off when issuing a reset for outlet 15 |
| receptresettime16 | user | Configured time to stay off when issuing a reset for outlet 16 |
| receptresettime17 | user | Configured time to stay off when issuing a reset for outlet 17 |
| receptresettime18 | user | Configured time to stay off when issuing a reset for outlet 18 |
| receptresettime19 | user | Configured time to stay off when issuing a reset for outlet 19 |
| receptresettime20 | user | Configured time to stay off when issuing a reset for outlet 20 |
| receptresettime21 | user | Configured time to stay off when issuing a reset for outlet 21 |
| receptresettime22 | user | Configured time to stay off when issuing a reset for outlet 22 |
| receptresettime23 | user | Configured time to stay off when issuing a reset for outlet 23 |
| receptresettime24 | user | Configured time to stay off when issuing a reset for outlet 24 |
| receptresettime25 | user | Configured time to stay off when issuing a reset for outlet 25 |
| receptresettime26 | user | Configured time to stay off when issuing a reset for outlet 26 |
| receptresettime27 | user | Configured time to stay off when issuing a reset for outlet 27 |

| Configuration Item | Group | Description |
|---------------------------|--------------|--|
| recepresetime28 | user | Configured time to stay off when issuing a reset for outlet 28 |
| recepresetime29 | user | Configured time to stay off when issuing a reset for outlet 29 |
| recepresetime30 | user | Configured time to stay off when issuing a reset for outlet 30 |
| recepresetime31 | user | Configured time to stay off when issuing a reset for outlet 31 |
| recepresetime32 | user | Configured time to stay off when issuing a reset for outlet 32 |
| recepresetime33 | user | Configured time to stay off when issuing a reset for outlet 33 |
| recepresetime34 | user | Configured time to stay off when issuing a reset for outlet 34 |
| recepresetime35 | user | Configured time to stay off when issuing a reset for outlet 35 |
| recepresetime36 | user | Configured time to stay off when issuing a reset for outlet 36 |
| recepresetime37 | user | Configured time to stay off when issuing a reset for outlet 37 |
| recepresetime38 | user | Configured time to stay off when issuing a reset for outlet 38 |
| recepresetime39 | user | Configured time to stay off when issuing a reset for outlet 39 |
| recepresetime40 | user | Configured time to stay off when issuing a reset for outlet 40 |
| recepresetime41 | user | Configured time to stay off when issuing a reset for outlet 41 |
| recepresetime42 | user | Configured time to stay off when issuing a reset for outlet 42 |
| recepresetime43 | user | Configured time to stay off when issuing a reset for outlet 43 |
| recepresetime44 | user | Configured time to stay off when issuing a reset for outlet 44 |
| recepresetime45 | user | Configured time to stay off when issuing a reset for outlet 45 |
| recepresetime46 | user | Configured time to stay off when issuing a reset for outlet 46 |
| recepresetime47 | user | Configured time to stay off when issuing a reset for outlet 47 |
| recepresetime48 | user | Configured time to stay off when issuing a reset for outlet 48 |

| Configuration Item | Group | Description |
|---------------------------|--------------|--|
| receptresetttime49 | user | Configured time to stay off when issuing a reset for outlet 49 |
| receptresetttime50 | user | Configured time to stay off when issuing a reset for outlet 50 |
| receptresetttime51 | user | Configured time to stay off when issuing a reset for outlet 51 |
| receptresetttime52 | user | Configured time to stay off when issuing a reset for outlet 52 |
| receptresetttime53 | user | Configured time to stay off when issuing a reset for outlet 53 |
| receptresetttime54 | user | Configured time to stay off when issuing a reset for outlet 54 |
| receptresetttime55 | user | Configured time to stay off when issuing a reset for outlet 55 |
| receptresetttime56 | user | Configured time to stay off when issuing a reset for outlet 56 |
| receptresetttime57 | user | Configured time to stay off when issuing a reset for outlet 57 |
| receptresetttime58 | user | Configured time to stay off when issuing a reset for outlet 58 |
| receptresetttime59 | user | Configured time to stay off when issuing a reset for outlet 59 |
| receptresetttime60 | user | Configured time to stay off when issuing a reset for outlet 60 |
| receptresetttime61 | user | Configured time to stay off when issuing a reset for outlet 61 |
| receptresetttime62 | user | Configured time to stay off when issuing a reset for outlet 62 |
| receptresetttime63 | user | Configured time to stay off when issuing a reset for outlet 63 |
| receptresetttime64 | user | Configured time to stay off when issuing a reset for outlet 64 |
| receptresetttime65 | user | Configured time to stay off when issuing a reset for outlet 65 |
| receptresetttime66 | user | Configured time to stay off when issuing a reset for outlet 66 |
| receptresetttime67 | user | Configured time to stay off when issuing a reset for outlet 67 |
| receptresetttime68 | user | Configured time to stay off when issuing a reset for outlet 68 |
| receptresetttime69 | user | Configured time to stay off when issuing a reset for outlet 69 |

| Configuration Item | Group | Description |
|---------------------------|--------------|--|
| recepresetime70 | user | Configured time to stay off when issuing a reset for outlet 70 |
| recepresetime71 | user | Configured time to stay off when issuing a reset for outlet 71 |
| recepresetime72 | user | Configured time to stay off when issuing a reset for outlet 72 |
| recepondly1 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 1 |
| recepondly2 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 2 |
| recepondly3 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 3 |
| recepondly4 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 4 |
| recepondly5 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 5 |
| recepondly6 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 6 |
| recepondly7 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 7 |
| recepondly8 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 8 |
| recepondly9 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 9 |
| recepondly10 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 10 |
| recepondly11 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 11 |
| recepondly12 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 12 |
| recepondly13 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 13 |
| recepondly14 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 14 |
| recepondly15 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 15 |
| recepondly16 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 16 |
| recepondly17 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 17 |
| recepondly18 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 18 |

| Configuration Item | Group | Description |
|---------------------------|--------------|--|
| recepondly19 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 19 |
| recepondly20 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 20 |
| recepondly21 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 21 |
| recepondly22 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 22 |
| recepondly23 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 23 |
| recepondly24 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 24 |
| recepondly25 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 25 |
| recepondly26 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 26 |
| recepondly27 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 27 |
| recepondly28 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 28 |
| recepondly29 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 29 |
| recepondly30 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 30 |
| recepondly31 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 31 |
| recepondly32 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 32 |
| recepondly33 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 33 |
| recepondly34 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 34 |
| recepondly35 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 35 |
| recepondly36 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 36 |
| recepondly37 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 37 |
| recepondly38 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 38 |
| recepondly39 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 39 |

| Configuration Item | Group | Description |
|---------------------------|--------------|--|
| recepondly40 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 40 |
| recepondly41 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 41 |
| recepondly42 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 42 |
| recepondly43 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 43 |
| recepondly44 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 44 |
| recepondly45 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 45 |
| recepondly46 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 46 |
| recepondly47 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 47 |
| recepondly48 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 48 |
| recepondly49 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 49 |
| recepondly50 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 50 |
| recepondly51 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 51 |
| recepondly52 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 52 |
| recepondly53 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 53 |
| recepondly54 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 54 |
| recepondly55 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 55 |
| recepondly56 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 56 |
| recepondly57 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 57 |
| recepondly58 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 58 |
| recepondly59 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 59 |
| recepondly60 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 60 |

| Configuration Item | Group | Description |
|---------------------------|--------------|--|
| recepondly61 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 61 |
| recepondly62 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 62 |
| recepondly63 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 63 |
| recepondly64 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 64 |
| recepondly65 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 65 |
| recepondly66 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 66 |
| recepondly67 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 67 |
| recepondly68 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 68 |
| recepondly69 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 69 |
| recepondly70 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 70 |
| recepondly71 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 71 |
| recepondly72 | user | Configured turn-on delay (in seconds) after PDU power up for outlet 72 |
| probename1 | user | Configured sensor name for probe 1 |
| probename2 | user | Configured sensor name for probe 2 |
| probelow1 | user | Minimum sensor value before raising a critical alarm for sensor 1 |
| probelow2 | user | Minimum sensor value before raising a critical alarm for sensor 2 |
| probelow3 | user | Minimum sensor value before raising a critical alarm for sensor 3 |
| probelow4 | user | Minimum sensor value before raising a critical alarm for sensor 4 |
| probewarnlow1 | user | Minimum sensor value before raising a warning alarm for sensor 1 |
| probewarnlow2 | user | Minimum sensor value before raising a warning alarm for sensor 2 |
| probewarnlow3 | user | Minimum sensor value before raising a warning alarm for sensor 3 |
| probewarnlow4 | user | Minimum sensor value before raising a warning alarm for sensor 4 |

| Configuration Item | Group | Description |
|---------------------------|--------------|---|
| probewarnhi1 | user | Maximum sensor value before raising a warning alarm for sensor 1 |
| probewarnhi2 | user | Maximum sensor value before raising a warning alarm for sensor 2 |
| probewarnhi3 | user | Maximum sensor value before raising a warning alarm for sensor 3 |
| probewarnhi4 | user | Maximum sensor value before raising a warning alarm for sensor 4 |
| probehi1 | user | Maximum sensor value before raising a critical alarm for sensor 1 |
| probehi2 | user | Maximum sensor value before raising a critical alarm for sensor 2 |
| probehi3 | user | Maximum sensor value before raising a critical alarm for sensor 3 |
| probehi4 | user | Maximum sensor value before raising a critical alarm for sensor 4 |
| groupname1 | user | Configured name of the outlet group for group1 |
| groupname2 | user | Configured name of the outlet group for group2 |
| groupname3 | user | Configured name of the outlet group for group3 |
| groupname4 | user | Configured name of the outlet group for group4 |
| groupname5 | user | Configured name of the outlet group for group5 |
| groupname6 | user | Configured name of the outlet group for group6 |
| groupname7 | user | Configured name of the outlet group for group7 |
| groupname8 | user | Configured name of the outlet group for group8 |
| groupname9 | user | Configured name of the outlet group for group9 |
| groupname10 | user | Configured name of the outlet group for group10 |
| groupname11 | user | Configured name of the outlet group for group11 |
| groupname12 | user | Configured name of the outlet group for group12 |
| groupname13 | user | Configured name of the outlet group for group13 |

| Configuration Item | Group | Description |
|---------------------------|--------------|---|
| groupname14 | user | Configured name of the outlet group for group14 |
| groupname15 | user | Configured name of the outlet group for group15 |
| groupname16 | user | Configured name of the outlet group for group16 |