eConnect® PDU RESTful API User Guide

Reference Sales Model EA-XXXX, 14667-001
Regulatory Model K-XXXX
Reference Sales and Regulatory Model
LX-XXXXX, PX-XXXXX, 36720-701

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Contents

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

Legal Information

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.
   *NOTE: In the case of standalone or primary PDU, the PDUSelector header does not need to be specified.

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.

/bulk/login URL: POST

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:	*/bulk/login/*
Method	*POST*
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 resultCode.
sessionid	This field is only available from the login endpoint and only 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"
}
```

/bulk/cert URL: DELETE

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

URL	*/bulk/cert/*
Method	*DELETE*
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 resultCode.

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

Successful deletion returns the following:

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

/bulk/cert URL: POST

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”. The endpoint also allows for an optional Private Key Passphrase to be specified during certificate upload if needed with the uploaded certificate. The following examples cover how to use a curl command to POST against the system’s “/bulk/cert” endpoint. In these examples, “lighttpd.pem” is the certificate to upload and the value “passphrase” is the certificate’s associated Private Key Passphrase.

Example of POST via curl command for a certificate that does not require a Private Key Passphrase:

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

Example of POST via curl command for a certificate requiring a Private Key Passphrase:

curl -X POST -H “SessionID: 1234567890” -F cert=@lighttpd.pem -F “privKeyPassphrase=passphrase” 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	*/bulk/cert/*
Method	*POST*
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 failure or success.
certificate	Feedback on whether certificate is in use
privKeyPassphrase	Feedback on whether the Private Key Passphrase was configured

```
{
   "resultCode": "int",
   "message": "string",
   “privKeyPassphrase”: “string”,
   “certificate”: “string”
}
```

A successful application of the new certificate without a Private Key Passphrase being configured returns the following:

```
{
   "resultCode":"0",
   "message": "HTTP(S) Service restarted to reflect the change.",
   “certificate”: “Customer certificate now in use.”
}
```

A successful application of the new certificate with a Private Key Passphrase being configured returns the following:

```
{
   "resultCode":"0",
   "message": "HTTP(S) Service restarted to reflect the change.",
   “certificate”: “Customer certificate now in use.”,
   “privKeyPassphrase”: “Certificate Private Key Passphrase configured.”
}
```

/bulk/cert URL: GET

The GET action retrieves the status of the PDU's current certificate in use.

URL	*/bulk/cert/*
Method	*GET*
Authorization required	Yes
Permissions required	Admin

Success Response

Code: *200 OK*

Content examples

Field	Description
resultCode	The result of the operation. A 0 indicates success. All other values should be considered a failure.
message	Message representing the current certificate in use for the PDU.

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

Response from a system using a customer uploaded certificate.

```
{
    "message":"Customer certificate is currently in use.",
    "resultCode":0
}
```

Response from a system using a default manufacturing certificate.

```
{
   "message":"Default manufacture certificate is currently in use.",
```

```
    "resultCode":0
}
```

/bulk/saupgrade URL: GET

The GET action returns either a JSON object containing information about all the secondary PDUs' linked upgrade status in the Secure Array, or a single secondary's current linked upgrade status, depending on the "pduselector" header value. If the primary's pduselector, or no pduselector, is included in the header, then all secondaries are returned. If a specific secondary's pduselector is included, then only that specific secondary's information is returned. Return data format is always the same, with the key value for each secondary representing that secondary's PDU index value in the Secure Array.

URL	*/bulk/saupgrade/*
Method	*GET*
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: * Inactive - No upgrade is taking place for the PDU. * Downloading - The PDU is currently receiving the firmware file from the primary PDU. * Checking - The PDU has received the firmware file and is verifying it. * Upgrading - 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"
   }
}
```


The following is a response from a GET request containing the Primary PDU's pduselector value for a Secure Array with 8 secondary PDUs. :


```
{
   "1": {
      "updateProg": 3,
      "state": "Downloading",
      "name": "PDU Name",
      "version": "5.3.1108",
      "lastUpdate": 1531522863,
      "updateFlg": 1,
      "updateErr": 196608,
      "selector": 6096
   },
   "2": {
      "updateProg": 3,
      "state": "Downloading",
      "name": "PDU Name",
      "version": "5.3.1108",
      "lastUpdate": 1531522863,
      "updateFlg": 1,
      "updateErr": 196608,
      "selector": 6097
   },
    "3": {
      "updateProg": 3,
      "state": "Downloading",
      "name": "PDU Name",
      "version": "5.3.1108",
      "lastUpdate": 1531522863,
      "updateFlg": 1,
      "updateErr": 196608,
      "selector": 6098
   },
```

```
    "4": {
        "updateProg": 3,
        "state": "Downloading",
        "name": "PDU Name",
        "version": "5.3.1108",
        "lastUpdate": 1531522863,
        "updateFlg": 1,
        "updateErr": 196608,
        "selector": 6099
    },
    "5": {
        "updateProg": 3,
        "state": "Downloading",
        "name": "PDU Name",
        "version": "5.3.1108",
        "lastUpdate": 1531522863,
        "updateFlg": 1,
        "updateErr": 196608,
        "selector": 6100
},
    "6": {
        "updateProg": 3,
        "state": "Downloading",
        "name": "PDU Name",
        "version": "5.3.1108",
        "lastUpdate": 1531522863,
        "updateFlg": 1,
        "updateErr": 196608,
        "selector": 6101
   },
    "7": {
        "updateProg": 3,
        "state": "Downloading",
        "name": "PDU Name",
        "version": "5.3.1108",
        "lastUpdate": 1531522863,
        "updateFlg": 1,
        "updateErr": 196608,
        "selector": 6102
    },
     "8": {
        "updateProg": 3,
        "state": "Downloading",
        "name": "PDU Name",
        "version": "5.3.1108",
        "lastUpdate": 1531522863,
        "updateFlg": 1,
        "updateErr": 196608,
        "selector": 6103
    }
}
```


The following is a response from a GET request containing a Secondary PDU's pduselector value (6101) for a Secure Array with 8 secondary PDUs:

```
{
    "6": {
        "updateProg": 3,
        "state": "Downloading",
        "name": "PDU Name",
        "version": "5.3.1108",
        "lastUpdate": 1531522863,
        "updateFlg": 1,
        "updateErr": 196608,
        "selector": 6101
}
```

/bulk/saupgrade URL: POST

A POST against the “saupgrade” endpoint will initiate a Secure Array Linked Upgrade for all secondary PDUs, regardless of the “pduselector” value in the request’s header.

URL	*/bulk/saupgrade/*
Method	*POST*
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":"Command sent to the PDU."
}
```

/bulk/users URL: GET

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

URL	*/bulk/users/*
Method	*GET*
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": ""
   }
]
```

/bulk/users URL: POST

Create and modify users in the PDU user store.

URL	*/bulk/users/*
Method	*POST*
Authorization required	YES
Permissions required	Admin

Field	Description
action	Can be one of 3 values: create, update or delete
username	The new loginid for 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. This is used for referencing the user during update and delete actions
password	The user's password.

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

To create a user:

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

To update a user, specify using the user's "loginid":

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

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:

When editing a user:

```
{
   "resultCode":"0",
   "message": "Successfully edited user 'loginid'"

}
```

When deleting a user:

```
{

   "resultCode" : "0",

   "message" : "User 'loginid' Successfully deleted!"

}
```

/bulk/fwupgrade URL: GET

Retrieve the Primary PDU's Firmware version

URL	*/bulk/fwupgrade/*
Method	*GET*
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 command complete.
fwversion	The firmware version of the system.

```
{

   “message": “string”,

   “resultcode”: “int”,

   “fwversion”: “string”

}
```

Example:

```
{
   "message": "Command complete",
   "resultCode":0,
   "fwversion":"5.3.2297"
}
```

/bulk/fwupgrade URL: POST

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	*/bulk/fwupgrade/*
Method	*POST*
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"
}
```

/bulk/config URL: GET

Retrieve the PDU's configuration.

URL	*/bulk/config/*
Method	*GET*
Authorization required	YES
Permissions required	Admin

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",
   }
]
```

/bulk/config URL: POST

Set the value for specific configuration items.

URL	*/bulk/config/*
Method	*POST*
Authorization required	YES
Permissions required	Admin

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"
   }
]
```

/bulk/line URL: GET

Retrieve the Line data associated with the PDU.

URL	*/bulk/line/*
Method	*GET*
Authorization required	YES
Permissions required	Admin

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 amps

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

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

```
[
   {
      "id": "1",
      "current": "6.70"
   },
   {
      "id": "2",
      "current": "7.60"
   },
   {
      "id": "3",
      "current": "5.70"
   }
]
```

/bulk/branch URL: GET

Retrieve the Branch/Circuit data associated with the PDU.

URL	*/bulk/branch/*
Method	*GET*
Authorization required	YES
Permissions required	Admin

Success Response

Code: *200 OK*

Content examples

The system returns an array of branch objects.
Fields in *Italics*, are only available on 'K' Model Numbers (MCM4 Module)

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 Amps
maxamp	The max amperage, or breaker rating, for the branch. This value is in Amps
voltage	The voltage on the branch. This value is in Volts
power	The power or Volt-Amps on the branch. This value is in Volt-Amps
powerfactor	The power factor for the branch. The value is in decimal 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 kVA-hours
powerkW	*The power or Volt-Amps on the branch. This value is in Watts*
energykWh	*The accumulated energy for the branch. This is in kW-hours*

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

```
]
```

A PDU with 2 branches would have the following output:

```
[
   {
      "id": "1",
      "amp": "2.50",
      "maxamp": "20.00",
      "voltage": "208.3",
      "power": "5.20",
      "powerfactor": "0.97",
      "status": "noalarm",
      “powerkW": “5.04”,
      “energykWh": “1818.28”,
      "energy": "1874.52"
   },
   {
      "id": "1",
      "amp": "10.75",
      "maxamp": "20.00",
      "voltage": "207.6",
      "power": "2.23",
      "powerfactor": "0.98",
      "status": "warning",
      “powerkW": “2.18”,
      “energykWh": “7,792.98”,
      "energy": "8034.12"
   },
]
```

/bulk/outlet URL: GET

Retrieve the outlet data associated with the PDU.

URL	*/bulk/outlet/*
Method	*GET*
Authorization required	YES
Permissions required	Admin

Success Response

Code: *200 OK*

Content examples

The system returns an array of outlet objects.
Fields in *Italics*, are only available on 'K' Model Numbers (MCM4 Module)

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 Amps
voltage	The voltage on the outlet. This value is in Volts
power	The power or Volt-Amps on the outlet. This value is in VA
powerfactor	*The power factor for the branch. The value is in decimal form*
status	The alarm status for the outlet. This may be "noalarm", "warning" or "alarm"
energy	The accumulated energy for the branch. This is in kVA-hours
state	The state of the outlet. This may be "on" or "off"
powerkW	*The power or Volt-Amps on the outlet. This value is in Watts*
energykWh	*The accumulated energy for the outlet. This is in kW-hours*

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

```
    }
]
```

A PDU with 3 outlets would have the following output:

```
[
    {
        "id": "1",
        "branch": "1",
        "name": "outlet1",
        "amp": "7.50",
        "voltage": "208.7",
        "power": "15.65",
        "powerfactor": "0.97",
        "status": "noalarm",
        "energy": "5634.72",
        "powerkW": "15.18",
        "energykWh": "5465.67",
        "state": "on"
    },
    {
        "id": "2",
        "branch": "2",
        "name": "outlet2",
        "amp": "7.50",
        "voltage": "208.7",
        "power": "15.65",
        "powerfactor": "0.97",
        "status": "noalarm",
        "energy": "5634.70",
        "powerkW": "15.18",
        "energykWh": "5465.67",
        "state": "on"
    },
    {
        "id": "3",
        "branch": "3",
        "name": "outlet3",
        "amp": "7.50",
        "voltage": "208.7",
        "power": "15.65",
        "powerfactor": "0.97",
        "status": "noalarm",
        "energy": "5634.72",
        "powerkW": "15.18",
        "energykWh": "5465.67",
        "state": "off"
    }
]
```

/bulk/outlet URL: POST

Control the state of the outlets.

URL	*/bulk/outlet/*
Method	*POST*
Authorization required	YES
Permissions required	Admin

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"
```

```
    }
]
```

/bulk/environ URL: GET

Retrieve the environmental data associated with the PDU.

URL	*/bulk/environ/*
Method	*GET*
Authorization required	YES
Permissions required	Admin

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 the specified unit
unit	The unit of the measurement value

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

(continues)

A PDU with 2 USB sensors has the following output:


```
[
   {
      "id": "1",
      "name": "Sensor1",
      "type": "temp",
      "value": "65.30",
      "unit": "F"
   },
   {
      "id": "2",
      "name": "Sensor1",
      "type": "humidity",
      "value": "51.40",
      "unit": "%"
   },
   {
      "id": "3",
      "name": "Sensor2",
      "type": "temp",
      "value": "65.53",
      "unit": "F"
   },
   {
      "id": "4",
      "name": "Sensor2",
      "type": "humidity",
      "value": "51.60",
      "unit": "%"
   }

]
```

/bulk/eac URL: GET

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

URL	*/bulk/eac/*
Method	*GET*
Authorization required	YES
Permissions required	Admin

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 “locked” or “unlocked”.
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": " string ",
      "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": "  front ",
      "status": "ready",
      "doorstatus": "closed",
      "lockstatus": "locked",
      "forcestatus": "normal",
      "tamperstatus": "normal",
      "error": "196608",
      "version": "1.0",
      "serialnumber": "123456"
   },
   {
      "id": "  rear ",
      "status": "ready",
      "doorstatus": "open",
      "lockstatus": "unlocked",
      "forcestatus": "forced",
      "tamperstatus": "tamper",
      "error": "196608",
      "version": "1.0",
      "serialnumber": "123457"
   }
]
```

/bulk/eac URL: POST

Control the state of the Electronic Access System

URL	*/bulk/eac/*
Method	*POST*
Authorization required	YES
Permissions required	Admin

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"
   }
]
```

/bulk/timezone URL: GET

Retrieve the PDU's currently configured time zone and the available configurable time zone options if the currently configured time zone is the default UTC.

URL	*/bulk/timezone/*
Method	*GET*
Authorization required	YES
Permissions required	Admin

Success Response

Code: *200 OK*

Content examples

The system returns an object containing a message, a result code, and potential configurable options when the currently configured time zone is UTC.

Field	Description
message	A message that reflects the currently configured time zone. Also contains instructions on how to configure a new time zone if the current is UTC.
resultCode	The result of the operation. A 0 indicates success while all other values should be considered a failure.
fileoption	Description of the time zone for the listed option. The key for the "*fileoption*" is the filename to send in a POST to configure the time zone.

Response from a PDU with a custom time zone configured:


```
{
   "resultCode":0,
   "message": "Current time zone is Central Standard/Daylight Time (CST/CDT) UTC-6:00/-5:00."
}
```


Response from a PDU with default time zone configured, showing available options:


```
{
   "/Pacific/Honolulu":"Hawaii Standard Time (HST) UTC-10:00",
   "/America/Cancun":"Eastern Standard Time (EST) UTC-5:00",
   "/Asia/Riyadh":"Arabia Standard Time (AST) UTC+3:00",
   "/America/Sao_Paulo":"Brasilia Time (BRT) UTC-3:00",
   "/Etc/UTC":"Universal Coordinated Time (UTC) UTC+0:00",
   "/Australia/Perth":"Australia Western Standard Time (AWST) UTC+8:00",
   "/America/Denver":"Mountain Standard/Daylight Time (MST/MDT) UTC-7:00/-6:00",
```

```
    "/Africa/Maputo":"Central Africa Time (CAT) UTC+2:00",
    "/Australia/Adelaide":"Australian Central Standard/Daylight Time (ACST/ACDT) UTC+9:30/+10:30",
    "message":"Current time is Universal Coordinated Time (UTC) UTC+0:00. To configure a different time
zone, execute a POST with the desired time zone's corresponding time zone file based on the returned
options.",
    "/Asia/Shanghai":"Chinese Standard Time (CST) UTC+8:00",
    "/Asia/Bangkok":"Indochina Time (ICT) UTC+7:00",
    "/Asia/Tokyo":"Japan Standard Time (JST) UTC+9:00",
    "/America/Puerto_Rico":"Atlantic Standard Time (AST) UTC-4:00",
    "/Australia/Sydney":"Australian Eastern Standard/Daylight Time (AEST/AEDT) UTC+10:00/+11:00",
    "/Europe/Helsinki":"Eastern European/Summer Time (EET/EEST) UTC+2:00/+3:00",
    "/Europe/London":"Greenwich Mean Time/British Summer Time (GMT/BST) UTC+0:00/+1:00",
    "/America/Los_Angeles":"Pacific Standard/Daylight Time (PST/PDT) UTC-8:00/-7:00",
    "resultCode":0,
    "/Atlantic/Azores":"Azores Standard/Daylight Time (AZOT/AZOST) UTC-1:00/+0:00",
    "/Asia/Dubai":"Gulf Standard Time (GST) UTC+4:00",
    "/Africa/Lagos":"West Africa Time (WAT) UTC+1:00",
    "/Australia/Darwin":"Australian Central Standard Time (ACST) UTC+9:30",
    "/Australia/Brisbane":"Australian Eastern Standard Time (AEST) UTC+10:00",
    "/America/Anchorage":"Alaskan Standard/Daylight Time (AKST/AKDT) UTC-9:00/-8:00",
    "/America/Halifax":"Atlantic Standard/Daylight Time (AST/ADT) UTC-4:00/-3:00",
    "/Pacific/Auckland":"New Zealand Standard/Daylight Time (NZST/NZDT) UTC+12:00/+13:00",
    "/America/Phoenix":"Mountain Standard Time (MST) UTC-7:00",
    "/America/New_York":"Eastern Standard/Daylight Time (EST/EDT) UTC-5:00/-4:00",
    "/Asia/Kolkata":"India Standard Time (IST) UTC+5:30",
    "/Europe/Lisbon":"Western European/Summer Time (WET/WEST) UTC+0:00/+1:00",
    "/America/Chicago":"Central Standard/Daylight Time (CST/CDT) UTC-6:00/-5:00",
    "/Asia/Dhaka":"Indian Ocean Time (IOT) UTC+6:00",
    "/America/Mexico_City":"Central Standard Time (CST) UTC-6:00",
    "/Europe/Paris":"Central European/Summer Time (CET/CEST) UTC+1:00/+2:00"
}
```

/bulk/timezone URL: POST

Configure the PDU's custom time zone

URL	*/bulk/timezone/*
Method	*POST*
Authorization required	YES
Permissions required	Admin

Post Data

The following data may be sent with a POST request to the "timezone" endpoint. The POST request should include a JSON file with the key/value pair specified in the below table in an object. Additionally, a PDU can only have its time zone configured if there is a valid NTP server configured. The PDU will perform an NTP verification check before attempting to configure the specified time zone. If this verification fails, there will be a message reflecting that failure, and the PDU will not configure the requested time zone. Also, time zone configuration can only be performed on the Primary PDU, i.e. with a pduselector value of "0".

Field	Description
timezonefile	The file of the desired custom time zone. Valid file options are returned from a "GET" against the "timezone" endpoint.

```
{
   "timezonefile": "string"
}
```

Example:

```
{
   "timezonefile": "/America/Chicago"
}
```

Success Response

Code: *200 OK*

Content examples

The system returns a result object with fields for result code and message.

Field	Description

resultCode	The result of the operation. A 0 indicates success while all other values should be considered a failure.
message	The message associated with the resultCode

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

A successful time zone configuration request returns the following:

```
{
   "resultCode": 0,
   "message": "Current time zone is now Central Standard/Daylight Time (CST/CDT) UTC-6:00/-5:00."
}
```

A response from a failed configuration attempt due to attempting a configuration against a Secondary on the SecureArray:

```
{

   "resultCode": -1,

   "message": "Time Zone configuration is only supported for the Primary PDU"

}
```

A response from a failed configuration attempt due to failing NTP server verification:

```
{
   "resultCode": -1,
   "message": "Failed to verify NTP Server connection:  no servers can be used, exiting"
}
```

/bulk/timezone URL: DELETE

The DELETE action resets the PDU's time zone back to the default UTC time zone.

URL	*/bulk/timezone/*
Method	*DELETE*
Authorization required	YES
Permissions required:	Admin

Success Response

Code: *200 OK*

Content examples

The system returns a result object containing and result code and a message.

Field	Description
resultCode	The result of the operation. A 0 indicates success while 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": "Current time zone is now Universal Coordinated Time (UTC) UTC+0:00."
}
```

/bulk/8021x URL: GET

Retrieve the PDU's currently configured 802.1x state. If the system is enabled for 802.1x, then the returned message will reflect if all required configuration parameters are configured as needed. If any are missing, the message will reflect which configuration parameters are missing. If all configuration parameters are configured, the message will reflect that all required configuration is present.

URL	*/bulk/8021x/*
Method	*GET*
Authorization required	YES
Permissions required	Admin

Success Response

Code: *200 OK*

Content examples

The system returns an object containing a message and a result code.

Field	Description
message	A message that reflects the PDU's currently configured 802.1x state.
resultCode	The result of the operation. A 0 indicates success while all other values should be considered a failure.

Response from a PDU with 802.1x disabled:


```
{
   "message": "802.1x supplicant is disabled.",
```

```
   "resultCode":0
}
```


Response from a PDU with fully configured EAP-MD5 802.1x supplicant:


```
{
   “message”: “802.1x supplicant configured for EAP-MD5. All required configuration is present.",
   “resultCode”:0
}
```


Response from a PDU with an incomplete EAP-TLS 802.1 supplicant configuration:


```
{
   "message":"802.1x supplicant is configured for EAP-TLS. Client Private Key file missing. Client Certificate file missing. CA Certificate file missing.",
   "resultCode":0
}
```


/bulk/8021x URL: POST

Configure the PDU’s 8021.x supplicant. Upload the necessary CA certificate, client certificate, and private key files.

URL	*/bulk/8021x/*
Method	*POST*
Authorization required	YES
Permissions required	Admin

Post Data

The POST data for the “8021x” endpoint can contain up to 3 different files to be uploaded to the PDU. These files are the “cacert”, for the CA certificate file, the “clientcert”, for the client certificate, and the “privkey”, private key file.

File Name	Description
privkey	The uploaded Private Key file needed for the 802.1x authentication process, based on the EAP type used.
clientcert	The uploaded Client Certificate file needed for the 802.1x authentication process, based on the EAP type used.
cacert	The uploaded CA certificate needed for the 802.1x authentication process, based on the EAP type used.

Success Response

Code: *200 OK*

Content examples

The system returns a response object with a result code and a message. There could also be fields for “cacert”, “clientcert”, and “privkey” if the respective files have been uploaded.

Field	Description
resultCode	The result of the operation. A 0 indicates success while all other values should be considered a failure.
message	The message associated with the resultCode
cacert	The message associated with success or failure to upload the CA certificate.
clientcert	The message associated with success or failure to upload the Client certificate.
privkey	The message associated with success or failure to upload the private key file.

```
{
   "resultCode": "int",
   "message": "string",
   “cacert”: “string”,
   “clientcert”: “string”,
   “privkey”: “string”,
}
```

A successful upload of the CA certificate, client certificate, and private key files returns the following:

```
{
   "message": "wpa_supplicant service restarted to reflect the change.",
   "cacert": "CA Certificate file now in use.",
   "resultCode": 0,
   "clientcert": "Client Certificate file now in use.",
   "privkey": "Customer Private Key now in use."
}
```

A failed upload of the Private Key and Client Certificate files with a simultaneous successful CA Certificate upload returns the following:

```
{
   "message":"wpa_supplicant service not restarted.",
   "cacert":"CA Certificate file now in use.",
```

```
    "resultCode": -1,
    "clientcert":"Failed to verify the client certificate file. No Private Key file found. Please upload a verified Private Key file.",
    "privkey":"Failed to verify the private key file. Private Key password does not match uploaded Private Key file."
}
```


/bulk/8021x URL: DELETE

The DELETE action disables the PDU's 802.1x supplicant by resetting the configuration to "disabled" and deleting all uploaded files.

URL	*/bulk/8021x/*
Method	*DELETE*
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 while all other values should be considered a failure.
message	A human-readable explanation of the resultCode.

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


Successful executing a DELETE on a system enabled for 802.1x returns the following:


```
{
   "message":"802.1x supplicant has been disabled.",
   "resultCode":0
}
```


Attempting to DELETE a system that currently has 802.1x disabled returns the following:


```
{
   "message":"802.1x supplicant is already disabled.",
   "resultCode":0
}
```


FETCH API

The Fetch API allows users access to read-only metrics data without requiring a login to establish a SessionID for data access. There is an optional authorization requirement via the use of the X_AUTH_TOKEN header variable. If this value is not set on the PDU, then requests against the fetch URL's will not require an X_AUTH_TOKEN to be present in the request header. If the PDU does have this value configured, then requests need to have a matching X_AUTH_TOKEN supplied in the header for data access.

The Fetch API allows for specifying optional arguments in its supported URL's. The following URL variations are supported in the Fetch API:

- http://PDU_IP_ADDRESS/object
- http://PDU_IP_ADDRESS/object?selectorid=mcmid

- http://PDU_IP_ADDRESS/object/occurrence
- http://PDU_IP_ADDRESS/object/occurrence?selectorid=mcmid

PDU_IP_ADDRESS	PDU's IP address
object	Specific data type that is requested. Options are: • branch • line • outlet • sensor • door • securearray
occurrence	An integer number specifying which object occurrence is desired. If no occurrence is specified, or if the value "0" is specified, all potential object occurrences are returned in the request.
selectorid	An integer value specifying the mcmID of a Secondary on the SecureArray to retrieve data from. For a list of valid selectorid values, perform a GET against the "/fetch/securearray" URL. If no "selectorid" is specified, the value of "0" is specified, or if the Primary's mcmID is specified, the PDU will return information about the Primary. If interacting with a standalone PDU, just leave this value blank for simplification.

/fetch/branch URL: GET

Retrieve the Branch/Circuit data associated with the PDU.

URL	*/fetch/branch/*
Method	*GET*
Authorization required	Optional X_AUTH_TOKEN
Supported URL Variations*	/fetch/branch /fetch/branch/*ID*

	/fetch/branch?selectorid=*selector* /fetch/branch/*ID*?selectorid=*selector*

*For different URL variations, the "*ID*" value corresponds to a Branch ID (i.e. 1, 2, 3, etc.). The "*selector*" value corresponds to the MAC address based PDU selector value. You can obtain this value for secondaries by running a GET against the /fetch/securearray URL.

Success Response

Code: *200 OK*

Content examples

The system returns either a JSON list of branch objects, or a single branch object. The branch object is a JSON array. The following table describes each key/value pair in the Branch object.
Fields in *Italics*, are only available on 'K' Model Numbers (MCM4 Module)

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 Amps
maxamp	The max amperage, or breaker rating, for the branch. This value is in Amps
voltage	The voltage on the branch. This value is in Volts
power	The power or Volt-Amps on the branch. This value is in Volt-Amps
powerfactor	The power factor for the branch. The value is in decimal 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 kVA-hours
powerkW	*The power or Volt-Amps on the branch. This value is in Watts*
energykWh	*The accumulated energy for the branch. This is in kW-hours*

The following outlines the JSON datatypes for the different key values in the Branch object:

```
{
    "id": "number",
    "amp": "number",
    "maxamp": "number",
    "voltage": "number",
    "power": "number",
    "powerfactor": "number",
    "status": "string",
    "powerkW": "number",
    "energykWh": "number",
```

```
    "energy": "number"
}
```


The following shows the data returned from a GET against the /fetch/branch/ URL with a branch ID of “1” specified, returning a single Branch object:


```
{
    "id": "1",
    "amp": "2.50",
    "maxamp": "20.00",
    "voltage": "208.3",
    "power": "5.20",
    "powerfactor": "0.97",
    "status": "noalarm",
    “powerkW": “5.04”,
    “energykWh": “1818.28”,
    "energy": "1874.52"
}
```


The following shows the data returned from a GET against the /fetch/branch URL with either no branch ID specified or a branch ID of 0 specified. In this example, the PDU has 2 branches, so it returns a list of 2 Branch objects:


```
[
  {
    "id": "1",
    "amp": "2.50",
    "maxamp": "20.00",
    "voltage": "208.3",
    "power": "5.20",
    "powerfactor": "0.97",
    "status": "noalarm",
    “powerkW": “5.04”,
    “energykWh": “1818.28”,
    "energy": "1874.52"
  },
  {
    "id": "1",
    "amp": "10.75",
    "maxamp": "20.00",
    "voltage": "207.6",
    "power": "2.23",
    "powerfactor": "0.98",
    "status": "warning",
    “powerkW": “2.18”,
    “energykWh": “7,792.98”,
    "energy": "8034.12"
  },
]
```


/fetch/line URL: GET

Retrieve the Line data associated with the PDU.

URL	*/fetch/line/*
Method	*GET*
Authorization required	Optional X_AUTH_TOKEN
Supported URL Variations*	/fetch/line /fetch/line/*ID* /fetch/line?selectorid=*selector* /fetch/line/*ID*?selectorid=*selector*

*For different URL variations, the "*ID*" value corresponds to a Line ID (i.e. 1, 2, 3, etc.). The "*selector*" value corresponds to the MAC address based PDU selector value. You can obtain this value for secondaries by running a GET against the /fetch/securearray URL.

Success Response

Code: *200 OK*

Content examples

The system returns either a JSON list of line objects, or a single line object. The line object is a JSON array. The following table describes each key/value pair in the Line object.

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 amps

The following outlines the JSON datatypes for the different key values in the Line object:

```
{
	"id": "number",
	"amp": "number"
}
```

The following shows the data returned from a GET against the /fetch/line/ URL with a line ID of 1 specified, returning a single Line object:

```
{
	"id": "1",
	"amp": "6.70"
}
```

The following shows the data returned from a GET against the /fetch/line URL with either no line ID specified or a line ID of 0 specified. In this example, the PDU has 3 lines, so it returns a list of 3 Line objects:


```
[
   {
      "id": "1",
      "current": "6.70"
   },
   {
      "id": "2",
      "current": "7.60"
   },
   {
      "id": "3",
      "current": "5.70"
   }
]
```

/fetch/outlet URL: GET

Retrieve the Outlet data associated with the PDU.

URL	*/fetch/outlet/*
Method	*GET*
Authorization required	Optional X_AUTH_TOKEN
Supported URL Variations*	/fetch/outlet /fetch/outlet/*ID* /fetch/outlet?selectorid=*selector* /fetch/outlet/*ID*?selectorid=*selector*

*For different URL variations, the "*ID*" value corresponds to an Outlet ID (i.e. 1, 2, 3, etc.). The "*selector*" value corresponds to the MAC address based PDU selector value. You can obtain this value for secondaries by running a GET against the /fetch/securearray URL.

Success Response

Code: *200 OK*

Content examples

The system returns either a JSON list of outlet objects, or a single outlet object. The outlet object is a JSON array. The following table describes each key/value pair in the Outlet object.
Fields in *Italics*, are only available on 'K' Model Numbers (MCM4 Module)

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 Amps
voltage	The voltage on the outlet. This value is in Volts
power	The power or Volt-Amps on the outlet. This value is in VA
powerfactor	*The power factor for the outlet. The value is in decimal form*
status	The alarm status for the outlet. This may be "noalarm", "warning" or "alarm"
energy	The accumulated energy for the branch. This is in kVA-hours
state	The state of the outlet. This may be "on" or "off"
powerkW	*The power or Volt-Amps on the outlet. This value is in Watts*
energykWh	*The accumulated energy for the outlet. This is in kW-hours*

The following outlines the JSON datatypes for the different key values in the Outlet object:

```
{
      "id": "number",
      "branch": "number",
      "name": "string",
      "amp": "number",
      "voltage": "number",
      "power": "number",
      "powerfactor": "number",
      "status": "string",
      "powerkW": "number",
      "energykWh": "number",
      "energy": "number",
      "state": "string"
}
```

The following shows the data returned from a GET against the /fetch/outlet/ URL with an outlet ID of 1 specified, returning a single Outlet object:


```
{
   "power":"0.20",
   "id":"1",
   "powerfactor":"0.95",
   "amp":"0.99",
   "state":"On",
   "voltage":"208.00",
   "name":"Outlet 1",
   "powerkW":"0.19",
```

```
    "status":"noalarm",
    "energykWh":"153.86",
    "energy":"161.89",
    "branch":"1"
}
```


The following shows the data returned from a GET against the /fetch/outlet URL with either no outlet ID specified or an outlet ID of 0 specified. In this example, the PDU has 8 outlets, so it returns a list of 8 outlet objects:


```
[
   {
      "power":"0.20",
      "id":"1",
      "powerfactor":"0.95",
      "amp":"0.99",
      "state":"On",
      "voltage":"207.90",
      "name":"Outlet 1",
      "powerkW":"0.19",
      "status":"noalarm",
      "energykWh":"153.87",
      "energy":"161.90",
      "branch":"1"
   },
   {
      "power":"0.20",
      "id":"2",
      "powerfactor":"0.95",
      "amp":"0.99",
      "state":"On",
      "voltage":"207.90",
      "name":"Outlet 2",
      "powerkW":"0.19",
      "status":"noalarm",
      "energykWh":"153.78",
      "energy":"161.84",
      "branch":"2"
   },
   {
      "power":"0.22",
      "id":"3",
      "powerfactor":"0.95",
      "amp":"1.05",
      "state":"On",
      "voltage":"208.00",
      "name":"Outlet 3",
      "powerkW":"0.21",
      "status":"noalarm",
      "energykWh":"144.80",
      "energy":"152.36",
```

```
    "branch":"3"
  },
  {
    "power":"0.22",
    "id":"4",
    "powerfactor":"0.95",
    "amp":"1.05",
    "state":"On",
    "voltage":"208.00",
    "name":"Outlet 4",
    "powerkW":"0.21",
    "status":"noalarm",
    "energykWh":"111.98",
    "energy":"117.86",
    "branch":"1"
  },
  {
    "power":"0.20",
    "id":"5",
    "powerfactor":"0.95",
    "amp":"0.99",
    "state":"On",
    "voltage":"207.90",
    "name":"Outlet 5",
    "powerkW":"0.19",
    "status":"noalarm",
    "energykWh":"153.85",
    "energy":"161.87",
    "branch":"2"
  },
  {
    "power":"0.20",
    "id":"6",
    "powerfactor":"0.95",
    "amp":"0.99",
    "state":"On",
    "voltage":"208.00",
    "name":"Outlet 6",
    "powerkW":"0.19",
    "status":"noalarm",
    "energykWh":"153.78",
    "energy":"161.85",
    "branch":"3"
  },
  {
    "power":"0.22",
    "id":"7",
    "powerfactor":"0.95",
    "amp":"1.05",
    "state":"On",
    "voltage":"208.00",
    "name":"Outlet 7",
    "powerkW":"0.21",
    "status":"noalarm",
    "energykWh":"144.78",
    "energy":"152.35",
    "branch":"1"
```

```
  },
  {
    "power":"0.22",
    "id":"8",
    "powerfactor":"0.95",
    "amp":"1.05",
    "state":"On",
    "voltage":"208.00",
    "name":"Outlet 8",
    "powerkW":"0.21",
    "status":"noalarm",
    "energykWh":"111.96",
    "energy":"117.86",
    "branch":"2"
  }
]
```


/fetch/sensor URL: GET

Retrieve the Sensor data associated with the PDU.

URL	*/fetch/sensor/*
Method	*GET*
Authorization required	Optional X_AUTH_TOKEN
Supported URL Variations*	/fetch/sensor /fetch/sensor/*ID*

	/fetch/sensor?selectorid=*selector* /fetch/sensor/*ID*?selectorid=*selector*

*For different URL variations, the "*ID*" value corresponds to a Sensor ID (i.e. 1, 2, 3, etc.). The "*selector*" value corresponds to the MAC address based PDU selector value. You can obtain this value for secondaries by running a GET against the /fetch/securearray URL.

Success Response

Code: *200 OK*

Content examples

The system returns either a JSON list of sensor objects, or a single sensor object. The sensor object is a JSON array. The following table describes each key/value pair in the sensor object.

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 the specified unit
unit	The unit of the measurement value

The following outlines the JSON datatypes for the different key values in the Sensor object:

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

The following shows the data returned from a GET against the /fetch/sensor/ URL with a sensor ID of 1 specified, returning a single Sensor object:

```
{
	"id": "1",
	"name": "Sensor1",
	"type": "temp",
	"value": "65.30",
	"unit": "F"
}
```

The following shows the data returned from a GET against the /fetch/sensor URL with either no sensor ID specified or a sensor ID of 0 specified. In this example, the PDU has 4 sensor, 2 temperature and 2 humidity, so it returns a list of 4 sensor objects:

```
[
   {
      "id": "1",
      "name": "Sensor1",
      "type": "temp",
      "value": "65.30",
      "unit": "F"
   },
   {
      "id": "2",
      "name": "Sensor1",
      "type": "humidity",
      "value": "51.40",
      "unit": "%"
   },
   {
      "id": "3",
      "name": "Sensor2",
      "type": "temp",
      "value": "65.53",
      "unit": "F"
   },
   {
      "id": "4",
      "name": "Sensor2",
      "type": "humidity",
      "value": "51.60",
      "unit": "%"
   }

]
```

/fetch/door URL: GET

Retrieve the Lock and Door data associated with the PDU.

URL	*/fetch/door/*
Method	*GET*
Authorization required	Optional X_AUTH_TOKEN
Supported URL Variations*	/fetch/door /fetch/door/*ID* /fetch/door?selectorid=*selector* /fetch/door/*ID*?selectorid=*selector*

*For different URL variations, the "*ID*" value corresponds to a door ID (i.e. 1 or 2 for front or rear respectively). The "*selector*" value corresponds to the MAC address based PDU selector value. You can obtain this value for secondaries by running a GET against the /fetch/securearray URL.

Success Response

Code: *200 OK*

Content examples

The system returns either a JSON list of door objects, or a single door object. The door object is a JSON array. The following table describes each key/value pair in the door object.

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 "locked" or "unlocked".
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

The following outlines the JSON datatypes for the different key values in the Door object:

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

The following shows the data returned from a GET against the /fetch/door/ URL with a door ID of 1 specified, returning a single Door object, the Front Door:

```
{
   "forcestatus":"Normal",
   "id":"front",
   "tamperstatus":"Normal",
   "serialnumber": "74437",
   "version": "1.2.3",
   "status": "ready",
   "error": "196608",
   "doorstatus": "Closed",
   "lockstatus": "Locked"
}
```

The following shows the data returned from a GET against the /fetch/door URL with either no door ID specified or a door ID of 0 specified. Since the PDU only has a front and rear door, there are only 2 door objects in the list:

```
[
   {
      "forcestatus":"Normal",
      "id":"front",
      "tamperstatus":"Normal",
      "serialnumber":"74437",
      "version":"1.2.3",
      "status":"ready",
      "error":"196608",
```

```
        "doorstatus":"Closed",
        "lockstatus":"Locked"
    },
    {
        "forcestatus":"Normal",
        "id":"rear",
        "tamperstatus":"Normal",
        "serialnumber":"74443",
        "version":"1.2.3",
        "status":"ready",
        "error":"196608",
        "doorstatus":"Closed",
        "lockstatus":"Locked"
    }
]
```

/fetch/securearray URL: GET

Retrieve SecureArray data related to the PDU

URL	*/fetch/securearray/*
Method	*GET*
Authorization required	Optional X_AUTH_TOKEN
Supported URL Variations*	/fetch/securearray /fetch/securearray/*ID* /fetch/securearray?selectorid=*selector* /fetch/securearray/*ID*?selectorid=*selector*

*For different URL variations, the "*ID*" value corresponds to a Secondary PDU ID (i.e. 1, 2, etc.). The "*selector*" value corresponds to the MAC address based PDU selector value. If you specify a "*selector*" value for any PDU attached to the SecureArray, the PDU will return information for all secondaries connected to the SecureArray, regardless of the "*selector*" value. If information for a specific PDU on the SecureArray is desired, then specify the desired PDU's ID using the /fetch/securearray/ID URL.

Success Response

Code: *200 OK*

Content examples

The system returns either a JSON object representing a Secondary, or it returns a JSON array array where the keys are a PDU Index and the value is the corresponding SecureArray object. The Secondary object is a JSON array. The following table describes each key/value pair in the Secondary object.

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: * Inactive - No upgrade is taking place for the PDU. * Downloading - The PDU is currently receiving the firmware file from the primary PDU. * Checking - The PDU has received the firmware file and is verifying it. * Upgrading - The PDU is performing the upgrade of the PDU.

The following outlines the JSON datatypes for the different key values in the Secondary object:

```
{
    "updateProg": "string",
    "state": "string",
    "name": "string",
    "version": "string",
    "lastUpdate": "number",
    "updateFlg": "number",
    "updateErr": "number",
    "selector": "number"
}
```

The following shows the data returned from a GET against the /fetch/securearray/ URL with a PDU ID of 1 specified, returning a single Secondary object, the Secondary with PDU ID of 1:

```
{
```

```
    "updateProg":0,
    "state":"Inactive",
    "name":"MCM3 167",
    "version":"4.13.1054",
    "lastUpdate":0,
    "updateFlg":0,
    "updateErr":0,
    "selector":12720
}
```


The following shows the data returned from a GET against the /fetch/securearray URL with either no PDU ID specified or a PDU ID of 0 specified. In this example, the PDU has a SecureArray with 2 Secondaries, so it returns an array with 2 entries. The key for each entry is the corresponding PDU ID, and the value is the respective Secondary object:


```
{
   "1":{
      "updateProg":0,
      "state":"Inactive",
      "name":"MCM3 167",
      "version":"4.13.65535",
      "lastUpdate":0,
      "updateFlg":0,
      "updateErr":0,
      "selector":12720
   },
   "2":{
      "updateProg":0,
      "state":"Inactive",
      "name":"MCM3 166",
      "version":"4.13.65535",
      "lastUpdate":0,
      "updateFlg":0,
      "updateErr":0,
      "selector":33466
   }
}
```


APPENDIX A

Reference list of configuration items for the eConnect PDU:

Configuration Item	Group	Description
ipv4enabled	admin	IPv4 interface enabled(1) or disabled(0)
dhcp4enabled	admin	Set IPv4 address statically(0) or via DHCP(1)
ipv4autodns	admin	Set DNS addresses statically(0) or via DHCP(1)
pduipv4	admin	PDU's currently saved IPv4 address
ipv4subnet	admin	PDU's currently saved IPv4 subnet mask
ipv4gateway	admin	PDU's currently saved IPv4 default gateway
ipv4dns1	admin	PDU's currently saved primary DNS lookup
ipv4dns2	admin	PDU's currently saved secondary DNS lookup
ipv4dns3	admin	PDU's currently saved backup DNS lookup
ipv6enabled	admin	IPv6 interface enabled(1) or disabled(0)
ipv6linklocalenabled	admin	IPv6 link local address enabled(1) or disabled(0)
ipv6globaladdrenabled	admin	IPv6 global address functionality enabled(1) or disabled(0)
pduipv6	admin	PDU's currently saved IPv6 address
dhcp6enabled	admin	Set IPv6 address statically(0) or via DHCP(1)
ipv6autodns	admin	Set IPv6 DNS addresses statically(0) or via DHCP(1)
ipv6subnet	admin	PDU's currently saved IPv6 prefix length
ipv6gateway	admin	PDU's currently saved IPv6 default gateway
ipv6dns1	admin	PDU's currently saved IPv6 primary DNS lookup
ipv6dns2	admin	PDU's currently saved IPv6 secondary DNS lookup
ipv6dns3	admin	PDU's currently saved IPv6 backup DNS lookup
ntptimeserver1	admin	Primary NTP time server address
ntptimeserver2	admin	Secondary NTP time server address
snmpenabled	admin	SNMP service is enabled(1) or disabled(0)
snmphostonly	admin	Limit SNMP access to certain hosts enabled(1) or disabled(0)
snmphostipv41	admin	IPv4 host given access to SNMP service
snmphostipv42	admin	IPv4 host given access to SNMP service
snmphostipv43	admin	IPv4 host given access to SNMP service
snmphostipv61	admin	IPv6 host given access to SNMP service
snmphostipv62	admin	IPv6 host given access to SNMP service

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

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

Configuration Item	Group	Description
datalogserver	admin	Network address of the storage server
datalogport	admin	SSH port used for accessing storage server. (Default: 22)
dataloguser	admin	User for accessing the storage server
datalogpassword	admin	Password used when accessing the storage server
datalogdestdir	admin	Storage server destination directory
datalogoptions	admin	Connection options used when accessing the storage server via SSH
autosyslog	admin	Auto-transfer of syslog files to storage server enabled(1) or disabled(0)
syslogidentity	admin	Identity used in syslog entries
syslogfacility	admin	Store the SYSLOG facility id.
syslogserveraddr	admin	Network address of the syslog server
syslogserverport	admin	Syslog server port
enableldap	admin	LDAP authentication is enabled(1) or disabled(0)
ldapserver	admin	Address of the LDAP server
ldapdomain	admin	Base Domain Name
ldapsearchfield	admin	Store the LDAP Search Attribute
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	DECPRECATED: Store the address of the radius NAS server
radiusnasport	admin	DECPRECATED: 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)
poweriqlock	admin	Power-IQ Card access control is enabled(1) or disabled(0)
cardtrapport	admin	Port for the Power-IQ Access Control Server
cardtraphost41	admin	Primary IPv4 address for a Power-IQ Access Control Server
cardtraphost42	admin	Secondary IPv4 address for a Power-IQ Access Control Server
cardtraphost61	admin	Primary IPv6 address for a Power-IQ Access Control Server
cardtraphost62	admin	Secondary IPv6 address for a Power-IQ Access Control Server
inputtop	admin	Store whether the input cord is at the top or bottom.
tempformat	admin	Temperature display format. 0-Fahrenheit. 1-Celsius
sharerole	admin	Alternate is a backup(0), or share's Primary role(1)
missingpdu	admin	Send alert if PDU joins/leaves daisy chain
rolechange	admin	Send alert for a change in PDU role on daisy chain
displaytimeout	admin	Store the time interval in minutes for the display to timeout.
logintimeout	admin	Store the time interval in minutes for a login session to timeout.
displaybrightness	admin	Store the brightness level for the display.
sumamps	admin	Displaying of branch current totals is enabled(1) or disabled(0)
pduname	admin	Configured PDU name
pdudescription	admin	Configured PDU description

pducabinet	admin	Configured cabinet ID
dchainrole	admin	0-Secondary 1-Primary 2-Alternate
dchainlinkcount	admin	Alert sent when Secure Array member-count goes below
outofservice	admin	0-In service. 1-Out of service
showrecep	admin	Store whether to notify the user about a change in PDU role on the daisy chain.
auxmode	admin	Auxiliary port usage: 0-EAS 1-QPO
alarminterval	admin	Interval for recurring alarm SNMP traps

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

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

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

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

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

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

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

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

Configuration Item	Group	Description
branchwarnhivolt10	admin	Maximum voltage allowed before raising warning alarm for branch 10
branchwarnhivolt11	admin	Maximum voltage allowed before raising warning alarm for branch 11
branchwarnhivolt12	admin	Maximum voltage allowed before raising warning alarm for branch 12
branchhivolt1	admin	Maximum voltage allowed before raising critical alarm for branch 1
branchhivolt2	admin	Maximum voltage allowed before raising critical alarm for branch 2
branchhivolt3	admin	Maximum voltage allowed before raising critical alarm for branch 3
branchhivolt4	admin	Maximum voltage allowed before raising critical alarm for branch 4
branchhivolt5	admin	Maximum voltage allowed before raising critical alarm for branch 5
branchhivolt6	admin	Maximum voltage allowed before raising critical alarm for branch 6
branchhivolt7	admin	Maximum voltage allowed before raising critical alarm for branch 7
branchhivolt8	admin	Maximum voltage allowed before raising critical alarm for branch 8
branchhivolt9	admin	Maximum voltage allowed before raising critical alarm for branch 9
branchhivolt10	admin	Maximum voltage allowed before raising critical alarm for branch 10
branchhivolt11	admin	Maximum voltage allowed before raising critical alarm for branch 11
branchhivolt12	admin	Maximum voltage allowed before raising critical alarm for branch 12
receplowcurr1	admin	Minimum current allowed before raising critical alarm for outlet 1
receplowcurr2	admin	Minimum current allowed before raising critical alarm for outlet 2
receplowcurr3	admin	Minimum current allowed before raising critical alarm for outlet 3
receplowcurr4	admin	Minimum current allowed before raising critical alarm for outlet 4
receplowcurr5	admin	Minimum current allowed before raising critical alarm for outlet 5
receplowcurr6	admin	Minimum current allowed before raising critical alarm for outlet 6

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

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

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

Configuration Item	Group	Description
receplowcurr70	admin	Minimum current allowed before raising critical alarm for outlet 70
receplowcurr71	admin	Minimum current allowed before raising critical alarm for outlet 71
receplowcurr72	admin	Minimum current allowed before raising critical alarm for outlet 72
recepwarnlowcurr1	admin	Minimum current allowed before raising warning alarm for outlet 1
recepwarnlowcurr2	admin	Minimum current allowed before raising warning alarm for outlet 2
recepwarnlowcurr3	admin	Minimum current allowed before raising warning alarm for outlet 3
recepwarnlowcurr4	admin	Minimum current allowed before raising warning alarm for outlet 4
recepwarnlowcurr5	admin	Minimum current allowed before raising warning alarm for outlet 5
recepwarnlowcurr6	admin	Minimum current allowed before raising warning alarm for outlet 6
recepwarnlowcurr7	admin	Minimum current allowed before raising warning alarm for outlet 7
recepwarnlowcurr8	admin	Minimum current allowed before raising warning alarm for outlet 8
recepwarnlowcurr9	admin	Minimum current allowed before raising warning alarm for outlet 9
recepwarnlowcurr10	admin	Minimum current allowed before raising warning alarm for outlet 10
recepwarnlowcurr11	admin	Minimum current allowed before raising warning alarm for outlet 11
recepwarnlowcurr12	admin	Minimum current allowed before raising warning alarm for outlet 12
recepwarnlowcurr13	admin	Minimum current allowed before raising warning alarm for outlet 13
recepwarnlowcurr14	admin	Minimum current allowed before raising warning alarm for outlet 14
recepwarnlowcurr15	admin	Minimum current allowed before raising warning alarm for outlet 15
recepwarnlowcurr16	admin	Minimum current allowed before raising warning alarm for outlet 16
recepwarnlowcurr17	admin	Minimum current allowed before raising warning alarm for outlet 17
recepwarnlowcurr18	admin	Minimum current allowed before raising warning alarm for outlet 18

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

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

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

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

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

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

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

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

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

Configuration Item	Group	Description
recephicurr64	admin	Maximum current allowed before raising critical alarm for outlet 64
recephicurr65	admin	Maximum current allowed before raising critical alarm for outlet 65
recephicurr66	admin	Maximum current allowed before raising critical alarm for outlet 66
recephicurr67	admin	Maximum current allowed before raising critical alarm for outlet 67
recephicurr68	admin	Maximum current allowed before raising critical alarm for outlet 68
recephicurr69	admin	Maximum current allowed before raising critical alarm for outlet 69
recephicurr70	admin	Maximum current allowed before raising critical alarm for outlet 70
recephicurr71	admin	Maximum current allowed before raising critical alarm for outlet 71
recephicurr72	admin	Maximum current allowed before raising critical alarm for outlet 72
recepcritcurr1	admin	Store of the high threshold value for outlet current for outlet 1
recepcritcurr2	admin	Store of the high threshold value for outlet current for outlet 2
recepcritcurr3	admin	Store of the high threshold value for outlet current for outlet 3
recepcritcurr4	admin	Store of the high threshold value for outlet current for outlet 4
recepcritcurr5	admin	Store of the high threshold value for outlet current for outlet 5
recepcritcurr6	admin	Store of the high threshold value for outlet current for outlet 6
recepcritcurr7	admin	Store of the high threshold value for outlet current for outlet 7
recepcritcurr8	admin	Store of the high threshold value for outlet current for outlet 8
recepcritcurr9	admin	Store of the high threshold value for outlet current for outlet 9
recepcritcurr10	admin	Store of the high threshold value for outlet current for outlet 10
recepcritcurr11	admin	Store of the high threshold value for outlet current for outlet 11
recepcritcurr12	admin	Store of the high threshold value for outlet current for outlet 12

Configuration Item	Group	Description
recepcritcurr13	admin	Store of the high threshold value for outlet current for outlet 13
recepcritcurr14	admin	Store of the high threshold value for outlet current for outlet 14
recepcritcurr15	admin	Store of the high threshold value for outlet current for outlet 15
recepcritcurr16	admin	Store of the high threshold value for outlet current for outlet 16
recepcritcurr17	admin	Store of the high threshold value for outlet current for outlet 17
recepcritcurr18	admin	Store of the high threshold value for outlet current for outlet 18
recepcritcurr19	admin	Store of the high threshold value for outlet current for outlet 19
recepcritcurr20	admin	Store of the high threshold value for outlet current for outlet 20
recepcritcurr21	admin	Store of the high threshold value for outlet current for outlet 21
recepcritcurr22	admin	Store of the high threshold value for outlet current for outlet 22
recepcritcurr23	admin	Store of the high threshold value for outlet current for outlet 23
recepcritcurr24	admin	Store of the high threshold value for outlet current for outlet 24
recepcritcurr25	admin	Store of the high threshold value for outlet current for outlet 25
recepcritcurr26	admin	Store of the high threshold value for outlet current for outlet 26
recepcritcurr27	admin	Store of the high threshold value for outlet current for outlet 27
recepcritcurr28	admin	Store of the high threshold value for outlet current for outlet 28
recepcritcurr29	admin	Store of the high threshold value for outlet current for outlet 29
recepcritcurr30	admin	Store of the high threshold value for outlet current for outlet 30
recepcritcurr31	admin	Store of the high threshold value for outlet current for outlet 31
recepcritcurr32	admin	Store of the high threshold value for outlet current for outlet 32
recepcritcurr33	admin	Store of the high threshold value for outlet current for outlet 33

Configuration Item	Group	Description
recepcritcurr34	admin	Store of the high threshold value for outlet current for outlet 34
recepcritcurr35	admin	Store of the high threshold value for outlet current for outlet 35
recepcritcurr36	admin	Store of the high threshold value for outlet current for outlet 36
recepcritcurr37	admin	Store of the high threshold value for outlet current for outlet 37
recepcritcurr38	admin	Store of the high threshold value for outlet current for outlet 38
recepcritcurr39	admin	Store of the high threshold value for outlet current for outlet 39
recepcritcurr40	admin	Store of the high threshold value for outlet current for outlet 40
recepcritcurr41	admin	Store of the high threshold value for outlet current for outlet 41
recepcritcurr42	admin	Store of the high threshold value for outlet current for outlet 42
recepcritcurr43	admin	Store of the high threshold value for outlet current for outlet 43
recepcritcurr44	admin	Store of the high threshold value for outlet current for outlet 44
recepcritcurr45	admin	Store of the high threshold value for outlet current for outlet 45
recepcritcurr46	admin	Store of the high threshold value for outlet current for outlet 46
recepcritcurr47	admin	Store of the high threshold value for outlet current for outlet 47
recepcritcurr48	admin	Store of the high threshold value for outlet current for outlet 48
recepcritcurr49	admin	Store of the high threshold value for outlet current for outlet 49
recepcritcurr50	admin	Store of the high threshold value for outlet current for outlet 50
recepcritcurr51	admin	Store of the high threshold value for outlet current for outlet 51
recepcritcurr52	admin	Store of the high threshold value for outlet current for outlet 52
recepcritcurr53	admin	Store of the high threshold value for outlet current for outlet 53
recepcritcurr54	admin	Store of the high threshold value for outlet current for outlet 54

Configuration Item	Group	Description
recepcritcurr55	admin	Store of the high threshold value for outlet current for outlet 55
recepcritcurr56	admin	Store of the high threshold value for outlet current for outlet 56
recepcritcurr57	admin	Store of the high threshold value for outlet current for outlet 57
recepcritcurr58	admin	Store of the high threshold value for outlet current for outlet 58
recepcritcurr59	admin	Store of the high threshold value for outlet current for outlet 59
recepcritcurr60	admin	Store of the high threshold value for outlet current for outlet 60
recepcritcurr61	admin	Store of the high threshold value for outlet current for outlet 61
recepcritcurr62	admin	Store of the high threshold value for outlet current for outlet 62
recepcritcurr63	admin	Store of the high threshold value for outlet current for outlet 63
recepcritcurr64	admin	Store of the high threshold value for outlet current for outlet 64
recepcritcurr65	admin	Store of the high threshold value for outlet current for outlet 65
recepcritcurr66	admin	Store of the high threshold value for outlet current for outlet 66
recepcritcurr67	admin	Store of the high threshold value for outlet current for outlet 67
recepcritcurr68	admin	Store of the high threshold value for outlet current for outlet 68
recepcritcurr69	admin	Store of the high threshold value for outlet current for outlet 69
recepcritcurr70	admin	Store of the high threshold value for outlet current for outlet 70
recepcritcurr71	admin	Store of the high threshold value for outlet current for outlet 71
recepcritcurr72	admin	Store of the high threshold value for outlet current for outlet 72
recepname1	admin	Outlet Name label for outlet 1
recepname2	admin	Outlet Name label for outlet 2
recepname3	admin	Outlet Name label for outlet 3
recepname4	admin	Outlet Name label for outlet 4
recepname5	admin	Outlet Name label for outlet 5
recepname6	admin	Outlet Name label for outlet 6

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

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

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

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

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

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

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

Configuration Item	Group	Description
recepresettime7	admin	Configured time to stay off when issuing a reset for outlet 7
recepresettime8	admin	Configured time to stay off when issuing a reset for outlet 8
recepresettime9	admin	Configured time to stay off when issuing a reset for outlet 9
recepresettime10	admin	Configured time to stay off when issuing a reset for outlet 10
recepresettime11	admin	Configured time to stay off when issuing a reset for outlet 11
recepresettime12	admin	Configured time to stay off when issuing a reset for outlet 12
recepresettime13	admin	Configured time to stay off when issuing a reset for outlet 13
recepresettime14	admin	Configured time to stay off when issuing a reset for outlet 14
recepresettime15	admin	Configured time to stay off when issuing a reset for outlet 15
recepresettime16	admin	Configured time to stay off when issuing a reset for outlet 16
recepresettime17	admin	Configured time to stay off when issuing a reset for outlet 17
recepresettime18	admin	Configured time to stay off when issuing a reset for outlet 18
recepresettime19	admin	Configured time to stay off when issuing a reset for outlet 19
recepresettime20	admin	Configured time to stay off when issuing a reset for outlet 20
recepresettime21	admin	Configured time to stay off when issuing a reset for outlet 21
recepresettime22	admin	Configured time to stay off when issuing a reset for outlet 22
recepresettime23	admin	Configured time to stay off when issuing a reset for outlet 23
recepresettime24	admin	Configured time to stay off when issuing a reset for outlet 24
recepresettime25	admin	Configured time to stay off when issuing a reset for outlet 25
recepresettime26	admin	Configured time to stay off when issuing a reset for outlet 26
recepresettime27	admin	Configured time to stay off when issuing a reset for outlet 27

Configuration Item	Group	Description
recepresettime28	admin	Configured time to stay off when issuing a reset for outlet 28
recepresettime29	admin	Configured time to stay off when issuing a reset for outlet 29
recepresettime30	admin	Configured time to stay off when issuing a reset for outlet 30
recepresettime31	admin	Configured time to stay off when issuing a reset for outlet 31
recepresettime32	admin	Configured time to stay off when issuing a reset for outlet 32
recepresettime33	admin	Configured time to stay off when issuing a reset for outlet 33
recepresettime34	admin	Configured time to stay off when issuing a reset for outlet 34
recepresettime35	admin	Configured time to stay off when issuing a reset for outlet 35
recepresettime36	admin	Configured time to stay off when issuing a reset for outlet 36
recepresettime37	admin	Configured time to stay off when issuing a reset for outlet 37
recepresettime38	admin	Configured time to stay off when issuing a reset for outlet 38
recepresettime39	admin	Configured time to stay off when issuing a reset for outlet 39
recepresettime40	admin	Configured time to stay off when issuing a reset for outlet 40
recepresettime41	admin	Configured time to stay off when issuing a reset for outlet 41
recepresettime42	admin	Configured time to stay off when issuing a reset for outlet 42
recepresettime43	admin	Configured time to stay off when issuing a reset for outlet 43
recepresettime44	admin	Configured time to stay off when issuing a reset for outlet 44
recepresettime45	admin	Configured time to stay off when issuing a reset for outlet 45
recepresettime46	admin	Configured time to stay off when issuing a reset for outlet 46
recepresettime47	admin	Configured time to stay off when issuing a reset for outlet 47
recepresettime48	admin	Configured time to stay off when issuing a reset for outlet 48

Configuration Item	Group	Description
recepresettime49	admin	Configured time to stay off when issuing a reset for outlet 49
recepresettime50	admin	Configured time to stay off when issuing a reset for outlet 50
recepresettime51	admin	Configured time to stay off when issuing a reset for outlet 51
recepresettime52	admin	Configured time to stay off when issuing a reset for outlet 52
recepresettime53	admin	Configured time to stay off when issuing a reset for outlet 53
recepresettime54	admin	Configured time to stay off when issuing a reset for outlet 54
recepresettime55	admin	Configured time to stay off when issuing a reset for outlet 55
recepresettime56	admin	Configured time to stay off when issuing a reset for outlet 56
recepresettime57	admin	Configured time to stay off when issuing a reset for outlet 57
recepresettime58	admin	Configured time to stay off when issuing a reset for outlet 58
recepresettime59	admin	Configured time to stay off when issuing a reset for outlet 59
recepresettime60	admin	Configured time to stay off when issuing a reset for outlet 60
recepresettime61	admin	Configured time to stay off when issuing a reset for outlet 61
recepresettime62	admin	Configured time to stay off when issuing a reset for outlet 62
recepresettime63	admin	Configured time to stay off when issuing a reset for outlet 63
recepresettime64	admin	Configured time to stay off when issuing a reset for outlet 64
recepresettime65	admin	Configured time to stay off when issuing a reset for outlet 65
recepresettime66	admin	Configured time to stay off when issuing a reset for outlet 66
recepresettime67	admin	Configured time to stay off when issuing a reset for outlet 67
recepresettime68	admin	Configured time to stay off when issuing a reset for outlet 68
recepresettime69	admin	Configured time to stay off when issuing a reset for outlet 69

Configuration Item	Group	Description
recepresettime70	admin	Configured time to stay off when issuing a reset for outlet 70
recepresettime71	admin	Configured time to stay off when issuing a reset for outlet 71
recepresettime72	admin	Configured time to stay off when issuing a reset for outlet 72
recepondly1	admin	Configured turn-on delay (in seconds) after PDU power up for outlet 1
recepondly2	admin	Configured turn-on delay (in seconds) after PDU power up for outlet 2
recepondly3	admin	Configured turn-on delay (in seconds) after PDU power up for outlet 3
recepondly4	admin	Configured turn-on delay (in seconds) after PDU power up for outlet 4
recepondly5	admin	Configured turn-on delay (in seconds) after PDU power up for outlet 5
recepondly6	admin	Configured turn-on delay (in seconds) after PDU power up for outlet 6
recepondly7	admin	Configured turn-on delay (in seconds) after PDU power up for outlet 7
recepondly8	admin	Configured turn-on delay (in seconds) after PDU power up for outlet 8
recepondly9	admin	Configured turn-on delay (in seconds) after PDU power up for outlet 9
recepondly10	admin	Configured turn-on delay (in seconds) after PDU power up for outlet 10
recepondly11	admin	Configured turn-on delay (in seconds) after PDU power up for outlet 11
recepondly12	admin	Configured turn-on delay (in seconds) after PDU power up for outlet 12
recepondly13	admin	Configured turn-on delay (in seconds) after PDU power up for outlet 13
recepondly14	admin	Configured turn-on delay (in seconds) after PDU power up for outlet 14
recepondly15	admin	Configured turn-on delay (in seconds) after PDU power up for outlet 15
recepondly16	admin	Configured turn-on delay (in seconds) after PDU power up for outlet 16
recepondly17	admin	Configured turn-on delay (in seconds) after PDU power up for outlet 17
recepondly18	admin	Configured turn-on delay (in seconds) after PDU power up for outlet 18

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

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

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

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

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