

RED PSU REST API

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Version 0.0.5

Paths

/system

GET /system

System

Summary

Get system level information

Responses

Code Description

Schema

```
▼ {
  data: ▼ {
    id: string
    type: string
    attributes: ▼ {
      firmwareVersion: ▼
        Currently running system
        firmware version.
      name: ▼ string maxLength:20
        Unit name
      description: ▼ string maxLength:30
        Unit description
      location: ▼ string maxLength:20
        Unit location
      requirePassword: ▼ boolean
        True if a password is
```

200 OK.

↔

```

        }
    }
}

        startupDelay: ▼ number
                        Delay after reset before outputs start to switch on (ms).

        channelInterval: ▼ number
                        Interval between Outputs switching on (ms).

```

401 Unauthorised. Invalid or no credentials provided.

PUT /system

System

Summary

Update the system information

Parameters

Name	Located in	Description	Required	Schema
				<pre> ▼ { data: ▼ { id: string type: string attributes: ▼ { name: ▼ string maxLength:20 <i>Unit name</i> description: ▼ string maxLength:30 </pre>

resource body System info object with attributes to be updated. Yes ⇔

```
location: Unit description
          ▼ string
          maxLength:20
          Unit
          location
requirePassword: ▼ boolean
                 True if a
                 password is
                 required to
                 access the
                 unit.
startupDelay: ▼ number
              Delay after
              reset
              before
              outputs
              start to
              switch on
              (ms).
channelInterval: ▼ number
                 Interval
                 between
                 Outputs
                 switching
                 on (ms).
}
}
}
```

Responses

Code	Description
204	Successful Operation (No Content).
401	Unauthorised. Invalid or no credentials provided.
409	Conflict. Type and ID do not match the server's endpoint.

/system/reset

POST /system/reset

System

Summary

Perform a system reset

Parameters

Name	Located in	Description	Required	Schema
level	body	Reset level	Yes	\Rightarrow <pre>{ level: string }</pre>

Responses

Code	Description
204	Successful Operation (No Content).
401	Unauthorised. Invalid or no credentials provided.

/system/identify

POST /system/identify

System

Summary

Identify the unit by flashing LED's

Description

Flash the LEDs the required number of times to identify the unit. A negative value will flash them indefinitely. Setting to 0 will stop the flashing.

Parameters

Name	Located in	Description	Required	Schema
repeat	body	Number of repeats.	Yes	<pre>▼ { ⇔ repeat: number }</pre>

Responses

Code	Description
204	Successful Operation (No Content).
401	Unauthorised. Invalid or no credentials provided.

/system/updateFirmware

POST /system/updateFirmware

System

Summary

Update the system firmware

Parameters

Name	Located in	Description	Required	Schema
firmwareImage	formData	Firmware Image	Yes	⇔ file

Responses

Code	Description
------	-------------

204 Successful Operation (No Content).

401 Unauthorised. Invalid or no credentials provided.

/outputs

GET /outputs

Outputs

Summary

Get all Outputs

Responses

Code Description

Schema

```
▼ {
  data: ▼ [
    ▼ {
      id: string
      type: string
      attributes: ▼ {
        outputNumber: ▼ number
          The output number corresponding to the physical output on the unit.
        current: ▼ number (float)
          Output current (amps).
        status: ▼ string
          Current Output status.
          Enum:
          ▼ Array [3]
            0: "on"
            1: "off"
            2: "fault"
```

200 OK.

⇔

```

    name:
      ▼ string maxLength:20
        Human readable label
        corresponding to the
        output port.
  }
]
}

```

401 Unauthorised. Invalid or no credentials provided.

/outputs/{id}

GET /outputs/{id}

Outputs

Summary

Get a single Output.

Parameters

Name	Located in	Description	Required	Schema
id	path	ID of Output	Yes	↔ number

Responses

Code	Description	Schema
		<pre> ▼ { data: ▼ { id: string type: string attributes: ▼ { outputNumber: ▼ number } } } </pre>

200 OK.

⇔

current:

▼ number (float)
Output current (amps).

status:

▼ string
Current Output status.

Enum:

▼ Array [3]

0: "on"

1: "off"

2: "fault"

name:

▼ string maxLength:20
Human readable label
corresponding to the output
port.

}

}

}

401 Unauthorised. Invalid or no
credentials provided.

404 Document not found.

PUT /outputs/{id}

Outputs

Summary

Update an Output.

Parameters

Name	Located in	Description	Required	Schema
id	path		Yes	⇔ number

ID of Output

					<pre>▼ { data: ▼ { id: string type: string attributes: ▼ { status: ▼ string Set the requested Output status. Enum: ▼ Array [2] 0: "ON" 1: "OFF" name: ▼ string maxLength:20 Human readable label corresponding to the output port. } } }</pre>
body	body	Output object with attributes to be updated.	Yes	⇔	

Responses

Code	Description
204	Successful Operation (No Content).
401	Unauthorised. Invalid or no credentials provided.
404	Not Found. Response to a request to modify a resource that does not exist.
409	Conflict. Type and ID do not match the server's endpoint.

/psus

GET /psus

Summary

Get all PSUs

Responses

Code Description

Schema

```

▼ {
  data: ▼ [
    ▼ {
      id: string
      type: string
      attributes: ▼ {
        psuNumber: ▼ number
          ▼ number
          The PSU number corresponding to the physical psu on the unit.
        status: ▼ string
          ▼ string
          Current state of the PSU.
          Enum:
          ▼ Array [4]
            0: "active"
            1: "present"
            2: "not present"
            3: "invalid"
        internalTemperature: ▼ number (float)
          ▼ number (float)
          Internal temperature (degrees Celsius).
        ambientTemperature: ▼ number (float)
          ▼ number (float)
          Ambient temperature (degrees Celsius).
        fanSpeed: ▼ number
          ▼ number
          Fan-speed (rpm).
        mainsCurrent: ▼ number (float)
          ▼ number (float)
          Input current
      }
    }
  ]
}

```

200 OK.



```

    }
  ]
}
outputCurrent:
  ▼ number (float)
  Output current
  (amps).
}
}
}

```

401 Unauthorised. Invalid or no credentials provided.

/psus/{id}

GET /psus/{id}

PSUs

Summary

Get a single PSU

Parameters

Name	Located in	Description	Required	Schema
id	path	ID of PSU	Yes	⇔ number

Responses

Code Description

Schema

```

  ▼ {
    data: ▼ {
      id:      string
      type:    string
      attributes: ▼ {

```

200 OK.

⇔

```
psuNumber:      ▼ number
                  The PSU number
                  corresponding to the
                  physical psu on the
                  unit.

status:         ▼ string
                  Current state of the
                  PSU.
                  Enum:
                    ▼ Array [4]
                      0: "active"
                      1: "present"
                      2: "not present"
                      3: "invalid"

internalTemperature: ▼ number (float)
                    Internal temperature
                    (degrees Celsius).

ambientTemperature: ▼ number (float)
                    Ambient temperature
                    (degrees Celsius).

fanSpeed:       ▼ number
                  Fan-speed (rpm).

mainsCurrent:   ▼ number (float)
                  Input current (amps).

outputCurrent:  ▼ number (float)
                  Output current
                  (amps).
```

}

}

}

401 Unauthorised. Invalid or no
credentials provided.

404 Document not found.

GET /users

Users

Summary

Get all Users accounts.

Responses

Code Description

200 OK.

Schema

```
▼ {
  data: ▼ [
    ▼ {
      id: string
      type: string
      attributes: ▼ {
        username: ▼ string
          maxLength:18
          Unique username
      }
    }
  ]
}
```

401

Unauthorised. Invalid or no credentials provided.

POST /users

Users

Summary

Add a new User account.

Parameters

Name	Located in	Description	Required	Schema
body	body	User object with new User attributes.	Yes ⇔	<pre> { data: { type: string attributes: { username: string maxLength:18 Unique username password: string Password } } } </pre>

Responses

Code	Description	Headers			
		Name	Description	Type	Details
201	Resource Created.	Location	Location of the newly created resource.	"string"	▼ Object description: "Location of the newly created resource." type: "string"
401	Unauthorised. Invalid or no credentials provided.				
409	Conflict. Type and ID do not match the server's endpoint.				

/users/{id}

GET /users/{id}

Summary

Get a single User account.

Parameters

Name	Located in	Description	Required	Schema
id	path	ID of User	Yes	⇒ number

Responses

Code	Description	Schema
200	OK.	<pre> { data: { id: string type: string attributes: { username: string maxLength:18 Unique username } } } </pre>
401	Unauthorised. Invalid or no credentials provided.	
404	Document not found.	

PUT /users/{id}

Summary

Update a User account.

Parameters

Name	Located in	Description	Required	Schema
id	path	ID of User	Yes	\Leftrightarrow number
body	body	User object with attributes to be updated.	Yes	\Leftrightarrow <pre>{ data: { id: string type: string attributes: { password: string } } }</pre>

Responses

Code	Description
204	Successful Operation (No Content).
401	Unauthorised. Invalid or no credentials provided.
404	Not Found. Response to a request to modify a resource that does not exist.
409	Conflict. Type and ID do not match the server's endpoint.

DELETE /users/{id}

Users

Summary

Delete a User account.

Parameters

Name	Located in	Description	Required	Schema
id	path	ID of User	Yes	⇒ number

Responses

Code	Description
204	Successful Operation (No Content).
401	Unauthorised. Invalid or no credentials provided.
404	Not Found. Response to a request to delete a resource that does not exist.
409	Conflict. Response to a request to delete admin user.

/users/me

GET /users/me

Users

Summary

Special case to get the user information for authenticated user.

Responses

Code Description

200 OK.

Schema

```
▼ {
  data: ▼ {
    id: string
    type: string
    attributes: ▼ {
      username: ▼ string
    }
  }
}
```

```
maxLength:18
  Unique username
}
```

401 Unauthorised. Invalid or no credentials provided.

404 Document not found.

/network

GET /network

Network

Summary

Get network information

Responses

Code Description

200 OK.

Schema

```
▼ {
  data: ▼ {
    id: string
    type: string
    attributes: ▼ {
      macAddress: ▼ string
                  Network interface
                  MAC address
      ipAddress: ▼ string
                 IP Address
      ipNetmask: ▼ string
                 Netmask IP
    }
  }
}
```

```

ipGateway: ▼ string
            Gateway IP
useDhcp:   ▼ boolean
            Use DHCP
}

```

401 Unauthorised. Invalid or no credentials provided.

PUT /network

Network

Summary

Update the network information

Parameters

Name	Located in	Description	Required	Schema
resource body		Network object with attributes to be updated.	Yes ⇔	<pre> ▼ { data: ▼ { id: string type: string attributes: ▼ { ipAddress: ▼ string IP Address ipNetmask: ▼ string Netmask IP ipGateway: ▼ string Gateway IP } } } </pre>

```
useDhcp: ▼
          boolean
          Use
          DHCP
        }
```

```
    }
  }
```

Responses

Code	Description
204	Successful Operation (No Content).
401	Unauthorised. Invalid or no credentials provided.
409	Conflict. Type and ID do not match the server's endpoint.