

deaddrop API

Sysctl AB

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Abstract

This document is a guide for developer who wants to integrate with deaddrop by using the API. All functions that can be used in the graphical interface can be used from an application by using the API. The guide will explain how to add contacts to a user and use them as receivers for file transfers. It will also explain how to remove contacts.



deaddrop

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1 Background

deaddrop can be used from a program by using the API. The API using the same requests that the javascript in the web interface uses. This documentation will explain how it works to create an integration with deaddrop for machine to machine communication.

The API will change in the future and customers who has notified sysctl that they using the API will get notification before upgrades or changes in the API to ensure their software can be upgraded in time before the changes.

2 Workflows

Its possible to do different tasks, like sending a file to a receiver or permit a contact to use deaddrop for a limit time. Its also possible to get the history etc. All data except the file upload and download will use the JSON format.

2.1 Send a file to receiver

- [Get CSRF token](#)
- [Get contacts](#)
- [Add a contact](#) if not exists in previous response
- [Add contacts as receivers](#)
- [Upload a file](#)
- [Send file\(s\) to receiver\(s\)](#)

2.2 Get a list of contacts

- [Get CSRF token](#)
- [Get contacts](#)

2.3 Remove a contact

- [Get CSRF token](#)
- [Add a contact](#)

Removing a contact is the same function as when adding contacts, its a list of new contacts. To remove all contacts, just send and empty JSON array “[]”

2.4 Remove a contact as a receiver

- [Get CSRF token](#)
- [Add contacts as receivers](#)

Removing a contact as a receiver is the same function as when adding contacts as a receiver, its a list of contacts. To remove all contacts as receivers, just send and empty JSON array “[]”

2.5 Remove a uploaded file

- [Get CSRF token](#)
- [Get uploaded files](#)
- [Delete a uploaded file](#)

2.6 Get history and active downloads

- [Get CSRF token](#)
- [Get history](#)

2.7 Download a incoming file

- [Get CSRF token](#)
- [Get history](#)
- [Download a file](#)

3 API

- deaddrop use basic authentication for all requests
- All requests to the backend CGI needs a valid CSRF-token
- To get a token for a user, a GET request to the accounts index page is needed. The token needs to be parsed from the response
- A CSRF token is valid for 15 minutes by default and can be changed on the server
- Every request with a valid CSRF token will reset the expire time for the token
- The username is in the most of the time a valid email adress in lower case
- The maximum number of concurrent CSRF tokens is 60
- A CSRF token will be erased after the timeout

3.1 Get CSRF token

The CSRF token is accessible from a http respons when sending a GET to a users index page. The value from the hidden input-tag "csrftoken" is the CSRF token that is needed for all CGI requests Sse the example of the input field below with CSRF-token in bold font.

```
<input type="hidden" id="csrftoken" name="csrftoken" value="1dJMRBNRMacGnfRzhpgda7Sq7eU">
```

This value needs to be used in ALL CGI requests.

Dont forget the trailing slash in the URL.

3.1.1 Description

Request

```
1 GET https://deaddrop.sysctl.se/apiuser@sysctl.se/
```

Response

```
1 index html code which include the CSRF token
```

3.1.2 Curl

```
1 curl -u apiuser@sysctl.se:apipassword https://deaddrop.sysctl.se/apiuser@sysctl.se  
  ↪ /
```

3.1.3 Raw HTTP

```
1 > GET /apiuser@sysctl.se/ HTTP/1.1  
2 > Authorization: Basic YXBpdXNlckBzeXNjdGwuc2U6YXBpcGFzc3dvcmQ=  
3 > Host: deaddrop.sysctl.se  
4 > Accept: */*  
5 >  
6 < HTTP/1.1 200 OK  
7 < Date: Wed, 11 Oct 2017 00:30:57 GMT  
8 < Server: Apache  
9 < Strict-Transport-Security: max-age=15768000  
10 < Content-Security-Policy: default-src 'none'; script-src 'self'; img-src 'self';  
  ↪ style-src 'self'; font-src 'self'; connect-src 'self'; child-src 'self';  
  ↪ object-src 'self';  
11 < X-Frame-Options: SAMEORIGIN  
12 < X-Content-Type-Options: nosniff  
13 < X-UA-Compatible: IE=edge  
14 < X-XSS-Protection: 1; mode=block  
15 < Cache-Control: no-cache, no-store, must-revalidate  
16 < Expires: 0  
17 < Pragma: no-cache  
18 < Content-Length: 34287  
19 < Content-Type: text/html; charset=utf-8  
20 <  
21 < <!DOCTYPE html>  
22 < <html lang='en'>  
23 < <head>  
24 < ...  
25 < ...  
26 < </footer>  
27 < <input type="hidden" id="refreshed" value="no"><input type="hidden" id="  
  ↪ csrftoken" name="csrftoken" value="1dJMRBNRMacGnfRzhpgda7Sq7eU="></body></  
  ↪ html>
```

3.2 Get contacts

Before adding a contact i can be goog to verify if the contact already exist. Adding a contact is not possible if they already exist.

3.2.1 Description

Request

```
1 GET https://deaddrop.sysctl.se/apiuser@sysctl.se/cgi/contacts_read.cgi
```

Response

```
1 json array of contacts objects or empty array if no contacts exists or empty array
   ↪ if no contacts exists
```

3.2.2 Curl

```
1 curl -u apiuser@sysctl.se:apipassword -H "CSRF-Token: 1dJMRBNRMacGnfRzhpgda7Sq7eU
   ↪ =" https://deaddrop.domain.se:443/apiuser@sysctl.se/cgi/contacts_read.cgi
```

3.2.3 Raw HTML

```
1 > GET /apiuser@sysctl.se/cgi/contacts_read.cgi HTTP/1.1
2 > Authorization: Basic YXBpdXNlckBzeXNjdGwuc2U6YXBpcGFzc3dvcmQ=
3 > Host: deaddrop.sysctl.se
4 > Accept: */*
5 > CSRF-Token: 1dJMRBNRMacGnfRzhpgda7Sq7eU=
6 >
7 < HTTP/1.1 200 OK
8 < Date: Sat, 14 Oct 2017 03:17:09 GMT
9 < Server: Apache
10 < Strict-Transport-Security: max-age=15768000
11 < Content-Security-Policy: default-src 'none'; script-src 'self'; img-src 'self';
   ↪ style-src 'self'; font-src 'self'; connect-src 'self'; child-src 'self';
   ↪ object-src 'self';
12 < X-Frame-Options: SAMEORIGIN
13 < X-Content-Type-Options: nosniff
14 < X-UA-Compatible: IE=edge
15 < X-XSS-Protection: 1; mode=block
16 < Cache-Control: no-cache, no-store, must-revalidate
17 < Expires: 0
18 < Pragma: no-cache
19 < Content-Length: 105
20 < Content-Type: application/json; charset=utf-8
21 <
22 <[{"email":"contact@sysctl.se","number":"123456789","language":"en","groups":["
   ↪ sysctl"],"nick":"contact"}]
```

3.3 Add a contact

To send a file to a receiver at least one contact is needed, the contacts can be the receivers of the file. A contact can also be used to allow temporary use of deaddrop functionality for a limit time.

3.3.1 Description

Request

```
1 POST https://deaddrop.sysctl.se/apiuser@sysctl.se/cgi/receivers_set.cgi
2 POST data: json array with contact
```

Response

```
1 json object with status code
```

3.3.2 Curl

```
1 curl -u apiuser@sysctl.se:apipassword -H "CSRF-Token: 1dJMRBNRMacGnfRzhpgda7Sq7eU
   ↪ =" -H "Content-Type: application/json" -X POST -d '{"email":"contact@sysctl
   ↪ .se","number":"123456789","language":"en","groups":["sysctl"],"nick":"
   ↪ contact"}' https://deaddrop.sysctl.se/apiuser@sysctl.se/cgi/receivers_set.
   ↪ cgi
```

3.3.3 Raw HTML

```
1 > POST /apiuser@sysctl.se/cgi/receivers_set.cgi HTTP/1.1
2 > Authorization: Basic YXBpdXNlckBzeXNjdGwuc2U6YXBpcGFzc3dvcmQ=
3 > Host: deaddrop.sysctl.se
4 > Accept: */*
5 > CSRF-Token: 1dJMRBNRMacGnfRzhpgda7Sq7eU=
6 > Content-Type: application/json
7 > Content-Length: 105
8 >
9 > [{"email":"contact@sysctl.se","number":"123456789","language":"en","groups":["
   ↪ sysctl"],"nick":"contact"}]
10 >
11 < HTTP/1.1 200 OK
12 < Date: Wed, 11 Oct 2017 00:52:02 GMT
13 < Server: Apache
14 < Strict-Transport-Security: max-age=15768000
15 < Content-Security-Policy: default-src 'none'; script-src 'self'; img-src 'self';
   ↪ style-src 'self'; font-src 'self'; connect-src 'self'; child-src 'self';
   ↪ object-src 'self';
16 < X-Frame-Options: SAMEORIGIN
17 < X-Content-Type-Options: nosniff
18 < X-UA-Compatible: IE=edge
19 < X-XSS-Protection: 1; mode=block
20 < Cache-Control: no-cache, no-store, must-revalidate
21 < Expires: 0
22 < Pragma: no-cache
23 < Content-Length: 15
24 < Content-Type: application/json; charset=utf-8
25 <
26 < {"status":"ok"}
```

3.4 Add contacts as receivers

To send a file to a receiver a contact must be added as a receiver. One more many contacts can be receivers.

3.4.1 Description

Request

```
1 POST https://deaddrop.sysctl.se/apiuser@sysctl.se/cgi/receivers_set.cgi
2 POST data: array with receiver(s)
```

Response

```
1 object with status code
```

3.4.2 Curl

```
1 curl -u apiuser@sysctl.se:apipassword -H "CSRF-Token: 1dJMRBNRMacGnfRzhpgda7Sq7eU
   ↪ =" -H "Content-Type: application/json" -X POST -d '{"email":"contact@sysctl
   ↪ .se","number":"123456789","language":"en","groups":["sysctl"],"nick":"
   ↪ contact"}' https://deaddrop.sysctl.se/apiuser@sysctl.se/cgi/receivers_set.
   ↪ cgi
```

3.4.3 Raw HTML

```
1 > POST /apiuser@sysctl.se/cgi/receivers_set.cgi HTTP/1.1
2 > Authorization: Basic YXBpdXNlckBzeXNjdGwuc2U6YXBpcGFzc3dvcmQ=
3 > Host: deaddrop.sysctl.se
4 > Accept: */*
5 > CSRF-Token: 1dJMRBNRMacGnfRzhpgda7Sq7eU=
6 > Content-Type: application/json
7 > Content-Length: 105
8 >
9 > [{"email":"contact@sysctl.se","number":"123456789","language":"en","groups":["
   ↪ sysctl"],"nick":"contact"}]
10 >
11 < HTTP/1.1 200 OK
12 < Date: Wed, 11 Oct 2017 08:05:46 GMT
13 < Server: Apache
14 < Strict-Transport-Security: max-age=15768000
15 < Content-Security-Policy: default-src 'none'; script-src 'self'; img-src 'self';
   ↪ style-src 'self'; font-src 'self'; connect-src 'self'; child-src 'self';
   ↪ object-src 'self';
16 < X-Frame-Options: SAMEORIGIN
17 < X-Content-Type-Options: nosniff
18 < X-UA-Compatible: IE=edge
19 < X-XSS-Protection: 1; mode=block
20 < Cache-Control: no-cache, no-store, must-revalidate
21 < Expires: 0
22 < Pragma: no-cache
23 < Content-Length: 15
24 < Content-Type: application/json; charset=utf-8
25 <
26 < {"status":"ok"}
```

3.5 Get uploaded files

To get all the files that has been uploaded

3.5.1 Description

Request

```
1 GET https://deaddrop.sysctl.se/apiuser@sysctl.se/cgi/get_files.cgi
```

Response

```
1 json array of objects or empty array if no file exists
```

3.5.2 Curl

```
1 curl -u apiuser@sysctl.se:apipassword -H "CSRF-Token: 1dJMRBNRMacGnfRzhpgda7Sq7eU  
↪ =" https://deaddrop.domain.se:443/apiuser@sysctl.se/cgi/get_files.cgi
```

3.5.3 Raw HTML

```
1 > GET /testuser@sysctl.se/cgi/get_files.cgi HTTP/1.1  
2 > Authorization: Basic YXBpdXNlckBzeXNjdGwuc2U6YXBpcGFzc3dvcmQ=  
3 > Host: deaddrop.sysctl.se  
4 > Accept: */*  
5 > CSRF-Token: 1dJMRBNRMacGnfRzhpgda7Sq7eU=  
6 >  
7 < HTTP/1.1 200 OK  
8 < Date: Wed, 03 Oct 2018 19:48:00 GMT  
9 < Server: Apache  
10 < Strict-Transport-Security: max-age=15768000  
11 < Content-Security-Policy: default-src 'none'; script-src 'self'; img-src 'self';  
↪ style-src 'self'; font-src 'self'; connect-src 'self'; child-src 'self';  
↪ object-src 'self';  
12 < X-Frame-Options: SAMEORIGIN  
13 < X-Content-Type-Options: nosniff  
14 < X-UA-Compatible: IE=edge  
15 < X-XSS-Protection: 1; mode=block  
16 < Cache-Control: no-cache, no-store, must-revalidate  
17 < Expires: 0  
18 < Pragma: no-cache  
19 < Content-Length: 71  
20 < Content-Type: application/json; charset=utf-8  
21 <  
22 < [{"name":"gigfile","type":"application/octet-stream","size":"1.07 GB"}]
```

3.6 Delete a uploaded file

To delete a file, get the uploaded files list and remove a file by using the file name as argumrnt in the get request

3.6.1 Description

Request

```
1 GET https://deaddrop.sysctl.se/apiuser@sysctl.se/cgi/remove_file.cgi?filename=  
  ↪ gigfile
```

Response

```
1 json status
```

3.6.2 Curl

```
1 curl -u apiuser@sysctl.se:apipassword -H "CSRF-Token: 1dJMRBNRMacGnfRzhpgda7Sq7eU  
  ↪ =" https://deaddrop.domain.se:443/apiuser@sysctl.se/cgi/remove_file.cgi?  
  ↪ filename=gigfile
```

3.6.3 Raw HTML

```
1 > GET /testuser@sysctl.se/cgi/remove_file.cgi?filename=gigfile HTTP/1.1  
2 > Authorization: Basic YXBpdXNlckBzeXNjdGwuc2U6YXBpcGFzc3dvcmQ=  
3 > Host: deaddrop.sysctl.se  
4 > Accept: */*  
5 > CSRF-Token: 1dJMRBNRMacGnfRzhpgda7Sq7eU=  
6 >  
7 < HTTP/1.1 200 OK  
8 < Date: Wed, 03 Oct 2018 19:48:00 GMT  
9 < Server: Apache  
10 < Strict-Transport-Security: max-age=15768000  
11 < Content-Security-Policy: default-src 'none'; script-src 'self'; img-src 'self';  
  ↪ style-src 'self'; font-src 'self'; connect-src 'self'; child-src 'self';  
  ↪ object-src 'self';  
12 < X-Frame-Options: SAMEORIGIN  
13 < X-Content-Type-Options: nosniff  
14 < X-UA-Compatible: IE=edge  
15 < X-XSS-Protection: 1; mode=block  
16 < Cache-Control: no-cache, no-store, must-revalidate  
17 < Expires: 0  
18 < Pragma: no-cache  
19 < Content-Length: 20  
20 < Content-Type: application/json; charset=utf-8  
21 <  
22 < {"status":"deldone"}
```

3.7 Upload a file

One or more files can be uploaded to deaddrop and in the next step be shared to receivers The upload are using multipart/form-data

3.7.1 Description

Request

```
1 POST https://deaddrop.sysctl.se/apiuser@sysctl.se/cgi/upload.cgi  
2 do=upload  
3 file data
```

Response

```
1 json object with status code
```

3.7.2 Curl

```
1 curl -u apiuser@sysctl.se:apipassword -H "CSRF-Token: 1dJMRBNRMacGnfRzhpgda7Sq7eU  
↪ =" -F do=upload -F file=@/var/deaddrop/html/favicon.png https://deaddrop.  
↪ sysctl.se/apiuser@sysctl.se/cgi/upload.cgi
```

3.7.3 Raw HTML

```
1 > POST /apiuser@sysctl.se/cgi/upload.cgi HTTP/1.1  
2 > Authorization: Basic YXBpdXNlckBzeXNjdGwuc2U6YXBpcGFzc3dvcnQ=  
3 > Host: deaddrop.sysctl.se  
4 > Accept: */*  
5 > CSRF-Token: 1dJMRBNRMacGnfRzhpgda7Sq7eU=  
6 > Content-Length: 2756  
7 > Expect: 100-continue  
8 > Content-Type: multipart/form-data; boundary=-----9  
↪ be544cb78fe  
9 >  
10 > data of file  
11 >  
12 < HTTP/1.1 100 Continue  
13 < HTTP/1.1 200 OK  
14 < Date: Wed, 11 Oct 2017 18:55:54 GMT  
15 < Server: Apache  
16 < Strict-Transport-Security: max-age=15768000  
17 < Content-Security-Policy: default-src 'none'; script-src 'self'; img-src 'self';  
↪ style-src 'self'; font-src 'self'; connect-src 'self'; child-src 'self';  
↪ object-src 'self';  
18 < X-Frame-Options: SAMEORIGIN  
19 < X-Content-Type-Options: nosniff  
20 < X-UA-Compatible: IE=edge  
21 < X-XSS-Protection: 1; mode=block  
22 < Cache-Control: no-cache, no-store, must-revalidate  
23 < Expires: 0  
24 < Pragma: no-cache  
25 < Transfer-Encoding: chunked  
26 < Content-Type: application/json; charset=utf-8  
27 <  
28 < {"status": "done"}
```

3.8 Create deaddrop

Create deaddrop will send receivers list with the uploaded file(s) together with the post data to the backend. The backend will create download pages for all receivers.

3.8.1 Description

Request

```
1 POST https://deaddrop.sysctl.se/apiuser@sysctl.se/cgi/createdeaddrop.cgi
2 {"desttime":1,"ddmessage":"You have received this mail because you are allowed to
   ↳ download protected files delivered by the deaddrop service"}
```

Response

```
1 json object with status code
```

3.8.2 Curl

```
1 curl -u apiuser@sysctl.se:apipassword -H "CSRF-Token: 1dJMRBNRMacGnfRzhpgda7Sq7eU
   ↳ =" -H "Content-Type: application/json" -X POST -d '{"desttime":1,"ddmessage
   ↳ ":"You have received this mail because you are allowed to download protected
   ↳ files delivered by the deaddrop service"}' https://deaddrop.sysctl.se/
   ↳ apiuser@sysctl.se/cgi/createdeaddrop.cgi
```

3.8.3 Raw HTML

```
1 > POST /apiuser@sysctl.se/cgi/createdeaddrop.cgi HTTP/1.1
2 > Authorization: Basic YXBpdXNlckBzeXNjdGwuc2U6YXBpcGFzc3dvcnQ=
3 > Host: deaddrop.sysctl.se
4 > Accept: */*
5 > CSRF-Token: 1dJMRBNRMacGnfRzhpgda7Sq7eU=
6 > Content-Type: application/json
7 > Content-Length: 142
8 >
9 > {"desttime":1,"ddmessage":"You have received this mail because you are allowed
   ↳ to download protected files delivered by the deaddrop service"}
10 >
11 < HTTP/1.1 200 OK
12 < Date: Wed, 11 Oct 2017 19:03:42 GMT
13 < Server: Apache
14 < Strict-Transport-Security: max-age=15768000
15 < Content-Security-Policy: default-src 'none'; script-src 'self'; img-src 'self';
   ↳ style-src 'self'; font-src 'self'; connect-src 'self'; child-src 'self';
   ↳ object-src 'self';
16 < X-Frame-Options: SAMEORIGIN
17 < X-Content-Type-Options: nosniff
18 < X-UA-Compatible: IE=edge
19 < X-XSS-Protection: 1; mode=block
20 < Cache-Control: no-cache, no-store, must-revalidate
21 < Expires: 0
22 < Pragma: no-cache
23 < Content-Length: 15
24 < Content-Type: application/json; charset=utf-8
25 <
26 < {"status":"ok"}
```

3.9 Get history

Get the history of created deaddrops (shared files) and to get a list of files that can be downloaded

3.9.1 Description

Request

```
1 GET https://deaddrop.sysctl.se/apiuser@sysctl.se/cgi/get_history.cgi
```

Response

```
1 json object with status code
```

3.9.2 Curl

```
1 curl -u apiuser@sysctl.se:apipassword -H "CSRF-Token: 1dJMRBNRMacGnfRzhpgda7Sq7eU  
↪ =" https://deaddrop.domain.se:443/apiuser@sysctl.se/cgi/get_history.cgi
```

3.9.3 Raw HTML

```
1 > GET /testuser@sysctl.se/cgi/get_history.cgi HTTP/1.1  
2 > Authorization: Basic YXBpdXNlckBzeXNjdGwuc2U6YXBpcGFzc3dvcmQ=  
3 > Host: deaddrop.sysctl.se  
4 > Accept: */*  
5 > CSRF-Token: 1dJMRBNRMacGnfRzhpgda7Sq7eU=  
6 > Content-Type: application/json  
7 >  
8 < HTTP/1.1 200 OK  
9 < Date: Wed, 03 Oct 2018 20:56:49 GMT  
10 < Server: Apache  
11 < Strict-Transport-Security: max-age=15768000  
12 < Content-Security-Policy: default-src 'none'; script-src 'self'; img-src 'self';  
↪ style-src 'self'; font-src 'self'; connect-src 'self'; child-src 'self';  
↪ object-src 'self';  
13 < X-Frame-Options: SAMEORIGIN  
14 < X-Content-Type-Options: nosniff  
15 < X-UA-Compatible: IE=edge  
16 < X-XSS-Protection: 1; mode=block  
17 < Cache-Control: no-cache, no-store, must-revalidate  
18 < Expires: 0  
19 < Pragma: no-cache  
20 < Content-Length: 1452  
21 < Content-Type: application/json; charset=utf-8  
22 <  
23 < {"history":[{"deaddrop_type":"downloadfiles","create_time":"1538593281","ttl  
↪ ":"1","receivers":[{"email":"contact@sysctl.se","language":"en","number  
↪ ":"123456789","groups":["sysctl"],"nick":"contact"}],"ddmessage":"You have  
↪ received this mail because you are allowed to download protected files  
↪ delivered by the deaddrop service","sender":{"email":"testuser@sysctl.se","  
↪ number":"46733755989","lang":"sv","first_run":"false","accountType":"perm",  
↪ change_passwd":"false","settings":{"show_number":"true","show_email":"true  
↪ ","show_lang":"false","show_nick":"true"}},"files":[{"name":"favicon.png",  
↪ "settings":[]}]},{"deaddrop_type":"downloadfiles","create_time  
↪ ":"1538600193","ttl":"1","receivers":[{"email":"testuser@sysctl.se",  
↪ language":"en","number":"124456789","name":"","groups":["sysctl"],"nick":  
↪ testuser"}],"ddmessage":"You have received this mail because you are allowed  
↪ to download protected files delivered by the deaddrop service","sender":{"  
↪ email":"testuser@sysctl.se","number":"46733755989","lang":"sv","first_run":
```

```

↪ false", "accountType": "perm", "change_passwd": "false", "settings": {"show_number
↪ ": "true", "show_email": "true", "show_lang": "false", "show_nick": "true"}}, "files
↪ ": [{"name": "exfat.jpg", "settings": "[ ]"}]}, "live_deaddrops": "1", "inbox
↪ ": [{"ttl": "1", "createtime": "1538600197", "sender": "testuser@sysctl.se", "files
↪ ": [{"name": "exfat.jpg", "settings": "[ ]"}], "url": "9
↪ e025a8b12526ef0eb0f79348abe9342c4cd107a909ddb4cea7ae44ff69890f8"]}]}

```

3.10 Download a file

To download a file the JSON data from “get history” must be parsed to get the correct url. This is explained in the data format section.

3.10.1 Description

Request

```

1 GET https://deaddrop.sysctl.se/apiuser@sysctl.se/9
  ↪ e025a8b12526ef0eb0f79348abe9342c4cd107a909ddb4cea7ae44ff69890f8/files/exfat.
  ↪ jpg

```

Response

```

1 json status

```

3.10.2 Curl

```

1 curl -o exfat.jpg -u apiuser@sysctl.se:apipassword -H "CSRF-Token: 1
  ↪ dJMRBNRMacGnfRzhpgda7Sq7eU=" https://deaddrop.domain.se:443/apiuser@sysctl.
  ↪ se/9e025a8b12526ef0eb0f79348abe9342c4cd107a909ddb4cea7ae44ff69890f8/files/
  ↪ exfat.jpg

```

3.10.3 Raw HTML

```

1 > GET /testuser@sysctl.se/9
  ↪ e025a8b12526ef0eb0f79348abe9342c4cd107a909ddb4cea7ae44ff69890f8/files/exfat.
  ↪ jpg HTTP/1.1
2 > Authorization: Basic YXBpdXNlckBzeXNjdGwuc2U6YXBpcGFzc3dvcmQ=
3 > Host: deaddrop.sysctl.se
4 > Accept: */*
5 > CSRF-Token: 1dJMRBNRMacGnfRzhpgda7Sq7eU=
6 >
7 < HTTP/1.1 200 OK
8 < Date: Wed, 03 Oct 2018 19:48:00 GMT
9 < Server: Apache
10 < Strict-Transport-Security: max-age=15768000
11 < Content-Security-Policy: default-src 'none'; script-src 'self'; img-src 'self';
  ↪ style-src 'self'; font-src 'self'; connect-src 'self'; child-src 'self';
  ↪ object-src 'self';
12 < X-Frame-Options: SAMEORIGIN
13 < X-Content-Type-Options: nosniff
14 < X-UA-Compatible: IE=edge
15 < X-XSS-Protection: 1; mode=block

```

```
16 < Cache-Control: no-cache, no-store, must-revalidate
17 < Expires: 0
18 < Pragma: no-cache
19 < Content-Length: 20
20 < Content-Type: application/json; charset=utf-8
21 <
22 < [data not shown]
```

3.11 Upload a file

One or more files can be uploaded to deaddrop and in the next step be shared to receivers The upload are using multipart/form-data

3.11.1 Description

Request

```
1 POST https://deaddrop.sysctl.se/apiuser@sysctl.se/cgi/upload.cgi
2 do=upload
3 file data
```

Response

```
1 json object with status code
```

3.11.2 Curl

```
1 curl -u apiuser@sysctl.se:apipassword -H "CSRF-Token: 1dJMRBNRMacGnfRzhpgda7Sq7eU
   ↪ =" -F do=upload -F file=@/var/deaddrop/html/favicon.png https://deaddrop.
   ↪ sysctl.se/apiuser@sysctl.se/cgi/upload.cgi
```

3.11.3 Raw HTML

```
1 > POST /apiuser@sysctl.se/cgi/upload.cgi HTTP/1.1
2 > Authorization: Basic YXBpdXNlckBzeXNjdGwuc2U6YXBpcGFzc3dvcmQ=
3 > Host: deaddrop.sysctl.se
4 > Accept: */*
5 > CSRF-Token: 1dJMRBNRMacGnfRzhpgda7Sq7eU=
6 > Content-Length: 2756
7 > Expect: 100-continue
8 > Content-Type: multipart/form-data; boundary=-----9
   ↪ be544cb78fe
9 >
10 > data of file
11 >
12 < HTTP/1.1 100 Continue
13 < HTTP/1.1 200 OK
14 < Date: Wed, 11 Oct 2017 18:55:54 GMT
15 < Server: Apache
16 < Strict-Transport-Security: max-age=15768000
```



```
17 < Content-Security-Policy: default-src 'none'; script-src 'self'; img-src 'self';  
    ↪ style-src 'self'; font-src 'self'; connect-src 'self'; child-src 'self';  
    ↪ object-src 'self';  
18 < X-Frame-Options: SAMEORIGIN  
19 < X-Content-Type-Options: nosniff  
20 < X-UA-Compatible: IE=edge  
21 < X-XSS-Protection: 1; mode=block  
22 < Cache-Control: no-cache, no-store, must-revalidate  
23 < Expires: 0  
24 < Pragma: no-cache  
25 < Transfer-Encoding: chunked  
26 < Content-Type: application/json; charset=utf-8  
27 <  
28 < {"status": "done"}
```

4 Data format

deaddrop use json objects and arrays for data communication

4.1 contacts and receivers

key	value	example
email	email	“email”:“contact@sysctl.se”
number	number	“number”:“123456789”
language	string	“language”:“en”
groups	array of strings	“groups”:["group1", "group2"]
nick	string	“nick”:“nickname”

4.1.1 contact example

```
1 {"email": "contact@sysctl.se", "number": "123456789", "language": "en", "groups": ["  
  ↪ sysctl"], "nick": "contact"}
```

4.1.2 receiver example

```
1 {"email": "contact@sysctl.se", "number": "123456789", "language": "en", "groups": ["  
  ↪ sysctl"], "nick": "contact"}
```

4.2 create deaddrop

key	value	example
desttime	number	“desttime”:1
ddmessage	string	“ddmessage”:“hello world”

4.2.1 create deaddrop example

```
1 {"desttime":1,"ddmessage":"You have received this mail because you are allowed to  
  ↪ download protected files delivered by the deaddrop service"}
```

4.3 response message

Response message will be change in the future to be more strict

4.3.1 examples

```
1 {"status":"done"}  
2 {"status":"deldone"}  
3 {"status":"ok"}
```

4.4 History response

```
1 {  
2   "history": [{  
3     "deaddrop_type": "downloadfiles",  
4     "create_time": "1538593281",  
5     "ttl": "1",  
6     "receivers": [{  
7       "email": "contact@sysctl.se",  
8       "language": "en",  
9       "number": "123456789",  
10      "groups": ["sysctl"],  
11      "nick": "contact"  
12    }],  
13    "ddmessage": "You have received this mail because you are allowed to  
  ↪ download protected files delivered by the deaddrop service",  
14    "sender": {  
15      "email": "testuser@sysctl.se",  
16      "number": "46733755989",  
17      "lang": "sv",  
18      "first_run": "false",  
19      "accountType": "perm",  
20      "change_passwd": "false",  
21      "settings": {  
22        "show_number": "true",  
23        "show_email": "true",  
24        "show_lang": "false",  
25        "show_nick": "true"  
26      }  
27    },  
28    "files": [{  
29      "name": "favicon.png",  
30      "settings": "[]"  
31    }]  
32  }, {  
33    "deaddrop_type": "downloadfiles",  
34    "create_time": "1538600193",  
35    "ttl": "1",
```

```
36     "receivers": [{
37         "email": "testuser@sysctl.se",
38         "language": "en",
39         "number": "124456789",
40         "name": "",
41         "groups": ["sysctl"],
42         "nick": "testuser"
43     }],
44     "ddmessage": "You have received this mail because you are allowed to
45     ↪ download protected files delivered by the deaddrop service",
46     "sender": {
47         "email": "testuser@sysctl.se",
48         "number": "46733755989",
49         "lang": "sv",
50         "first_run": "false",
51         "accountType": "perm",
52         "change_passwd": "false",
53         "settings": {
54             "show_number": "true",
55             "show_email": "true",
56             "show_lang": "false",
57             "show_nick": "true"
58         }
59     },
60     "files": [{
61         "name": "exfat.jpg",
62         "settings": "[]"
63     }],
64     "live_deaddrops": "1",
65     "inbox": [{
66         "ttl": "1",
67         "createtime": "1538600197",
68         "sender": "testuser@sysctl.se",
69         "files": [{
70             "name": "exfat.jpg",
71             "settings": "[]"
72         }],
73         "url": "9e025a8b12526ef0eb0f79348abe9342c4cd107a909ddb4cea7ae44ff69890f8"
74     }
75 }
```

The history part of the json message is an array that shows all deaddrop that has been created

The live_deaddrop is a number of active downloads that exists

The inbox is an array of meta data for every file that can be downloaded.

To download a file specified in the inbox: * the name in files is the actual filename * the url is the base url that must be appended to the url * the files exist in a sub directory called files

example:

```
1 https://deaddrop.sysctl.se/testuser@sysctl.se/9
   ↪ e025a8b12526ef0eb0f79348abe9342c4cd107a909ddb4cea7ae44ff69890f8/files/exfat.
   ↪ jpg
```

The request must include a valid CSRF token.

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