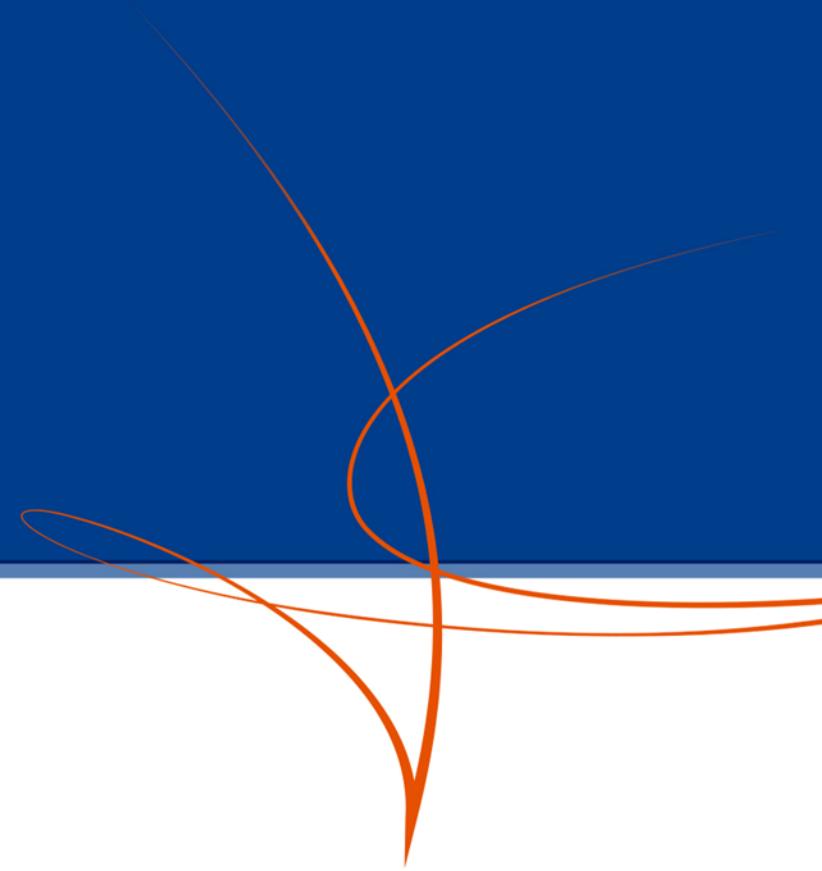


FOSSologyの CLI / REST API を叩いてみた

2019年 6月 20日

NECソリューションイノベータ株式会社

About

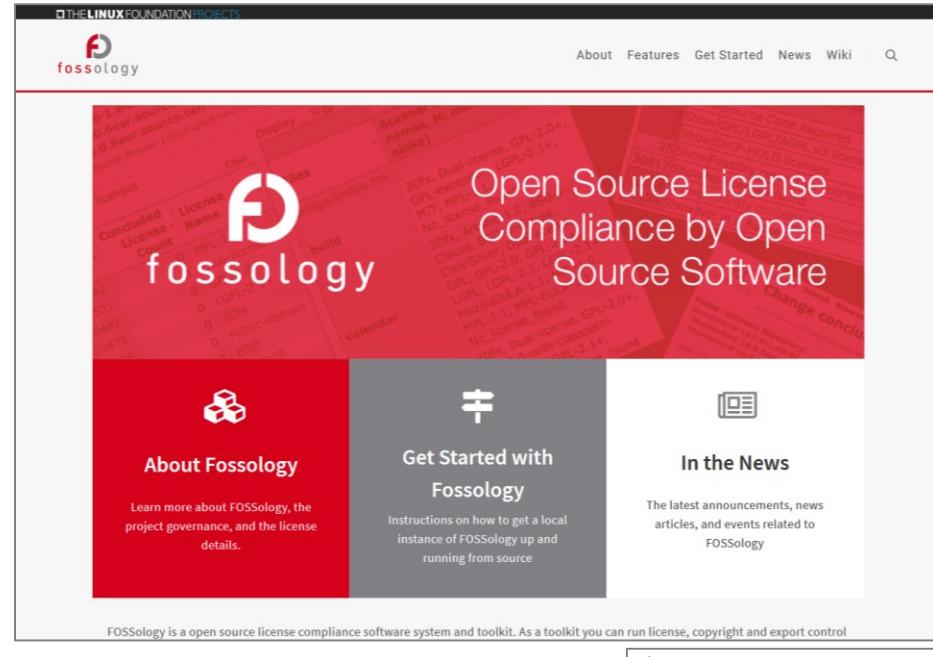


About FOSSology

The Linux Foundation傘下のプロジェクトで開発中のライセンススキャナ
FOSSology自体もOSSで公開されており無料で利用可能

FOSSologyの主な機能

- 検査対象のファイルの、ライセンス、著作権（帰属告知）を検出する
- あくまでライセンススキャナであり、某商用ツールと異なり、どのOSSのソースであるかの判定は行わない。



FOSSologyの主な使い方

- Web UI
- CLI
- REST API

About this Document

本書はFOSSologyのインターフェースのうち,
CLI と REST API を調査した結果をまとめたものである。

評価環境

FOSSology環境

FOSSologyバージョン	FOSSology Version: [3.5.0], Branch: [master], Commit: [#171d4d] 2019/04/12 08:47 UTC built @ 2019/04/12 09:32 UTC
インストール方法	Docker版

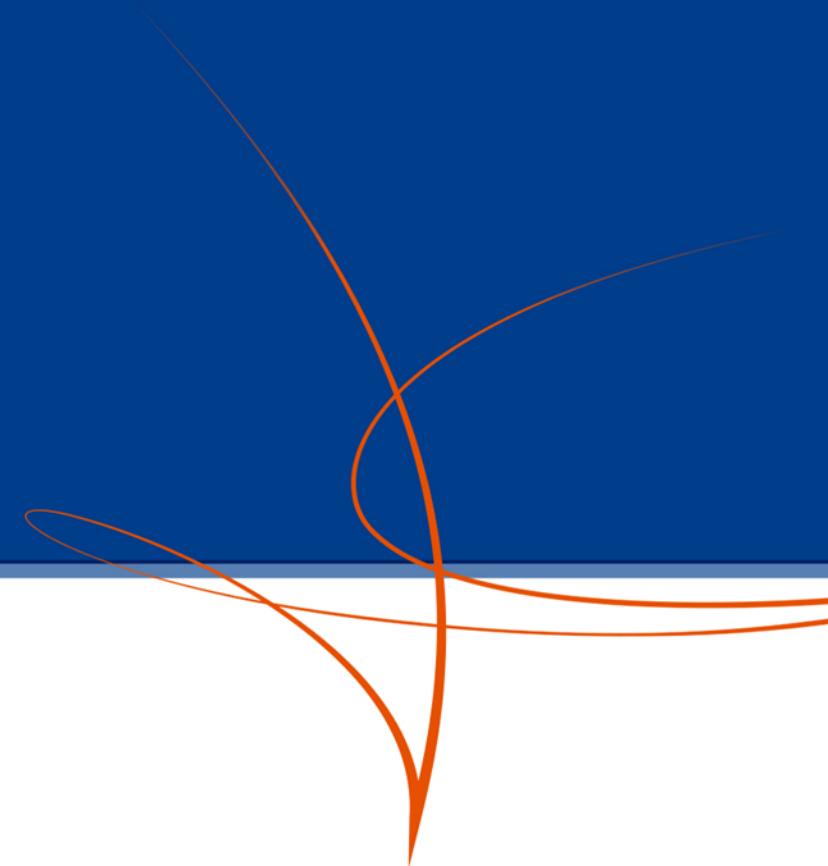
仮想マシン環境(Hyper-V)

OS	Ubuntu 16.04 LTS
リソース	V-CPU 1core (2thread), MEM 4GB

ホストマシン環境

OS	Windows 10 Pro
リソース	Core i7-8700 (6core/12thread), MEM 32GB

FOSSology CLI



Using FOSSology from the Command Line

These command line utilities are helpful for sysadmins automating certain FOSSology tasks.

User Commands

<code>cp2foss</code>	Copy files to a FOSSology server, and run scans.
<code>fossjobs</code>	Queue up a FOSSology analysis job on an upload that is already in the repository.
<code>fo_copyright_list</code>	Gets copyrights from an upload (or upload subtree)
<code>fo_nomos_license_list</code>	Gets licenses from an upload (or upload subtree)
<code>fo_antelink.php</code>	Prototype that tags open source files by using the commercial Antepedia server for identification
<code>fo_tagfoss.php</code>	Prototype to do VERY basic foss discovery using the Antepedia public database server
<code>fo_tagfile.php</code>	Prototype to tag files based on an input list of file paths

Stand alone agents

Most agents can be run stand alone, outside the FOSSology infrastructure. To see their command line options, use {command} --help. For example,

```
./nomos --help
```

<code>ununpack</code>	Unpack an iso, tar, or any other archive file into its component files.
<code>nomos</code>	Perform a license scan on files listed on the command line.
<code>monk</code>	License scanner. Matches licenses in license_ref table
<code>copyright</code>	Perform a copyright scan on files listed on the command line.
<code>pkngagent</code>	Scan package headers in RPM's and debian packages listed on the command line.
<code>mimetype</code>	Return file types for files listed on the command line.

If you want to run a command line agent in parallel to pick up the speed, try something like this:

```
export myagent=/usr/local/etc/fossology/mods-enabled/nomos/agent/nomos
or
export myagent=/etc/fossology/mods-enabled/nomos/agent/nomos

then run it in parallel:
find /home/users/me/myfiles/ -type f -print0 | parallel -0 -j8 -m 'stdbuf -o0 $myagent'
```

引用:

http://archive15.fossology.org/projects/fossology/wiki/Using_FOSSology_from_the_Command_Line

FOSSology CLI

以下のコマンドでDocker内でコマンドを叩くようとする

```
$ sudo docker exec -it [container ID] bash
```

基本的な使い方

```
# cp2foss --username fossy --password fossy -q all -A /usr/local/検査対象.zip      ★検査対象を送信し検査する コマンド応答でupload Noが表示される  
# fo_copyright_list --user fossy --password fossy -u 3                          ★copyrightレポ出力 これだけ --user なので注意. (おそらくバグ?)  
# fo_nomos_license_list --username fossy --password fossy -u 3                    ★licenseレポ出力 “3” はupload No
```

管理上、FOSSology上のツリー分けや、プロジェクト名/概要記載が必要な場合は各オプションで指定する

```
# cp2foss --username fossy --password fossy -q all -f fossology_tree -n project_name -d project_description -A /usr/local/検査対象.zip
```

検査エージェントを指定する場合は以下の種類が使える(WebUIで表示されるチェックボックスに対応)

```
# cp2foss --username fossy --password fossy -q agent_copyright -A /usr/local/検査対象.zip      ★copyrightのみ  
# cp2foss --username fossy --password fossy -q agent_nomos,agent_monk -A /usr/local/検査対象.zip    ★nomosとmonk  
# cp2foss --username fossy --password fossy -Q                                         ★使えるエージェントは以下
```

The available agents are:

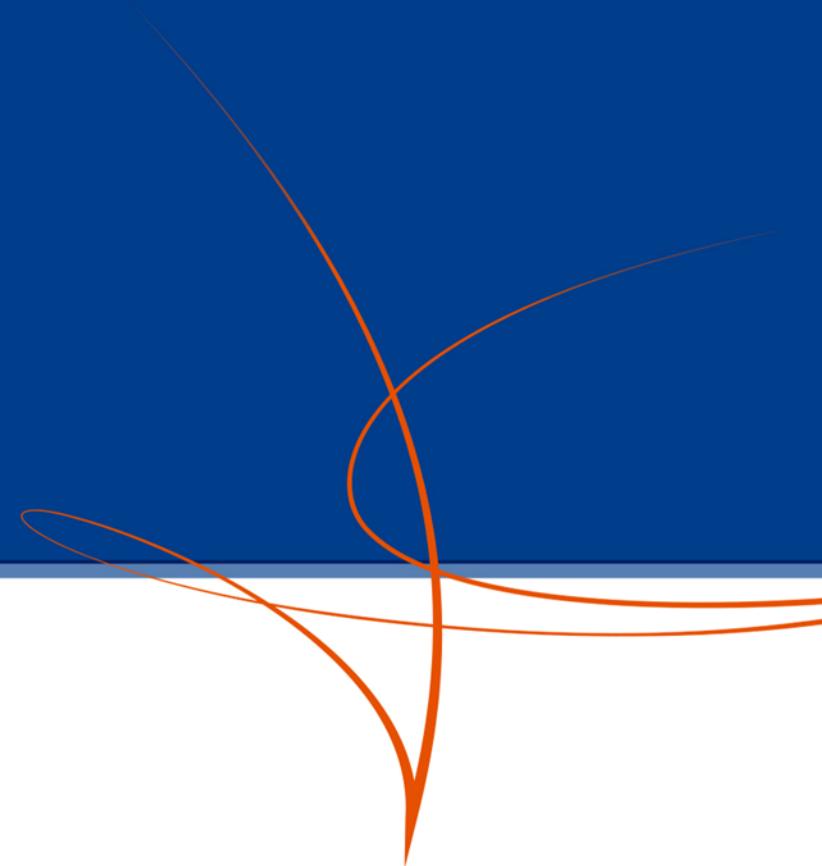
```
agent_copyright  
agent_ecc  
agent_keyword  
agent_mimetype  
agent_monk  
agent_nomos  
agent_pkgagent  
agent_unpack  
agent_adj2nest  
wget_agent
```

(公式のマニュアルはこちら) http://archive15.fossology.org/projects/fossology/wiki/Using_FOSSology_from_the_Command_Line

CLIの問題点

- 出力可能なレポート形式がショボい
 - License ListとCopyright Listしか出力できない
 - ベタテキストのみ
- SPDX出力に対応していない
 - SPDXならSPDX Tools で スプレッドシート等各種フォーマット変換できるがテキストは不可
 - 他ツールとのデータ交換ができない

FOSSology REST API



FOSSology RESTful interface

Goal:

Provide a simple HTTP interface for those needing to do their own data access.
This is not an sql replacement, or even a simple grammar, but rather a simple
method to do common queries while hiding the complexities of sql data retrieval.

This is a proposal. The only api that has been implemented to date is the following, which returns a comma separated list of licenses in a single file:

```
wget -qO - --post-file unwind.h http://repo.fossology.org/?mod=agent_nomos_once
```

Substitute unwind.h for your file.

Need to specify in query:

- 1) Does the query apply to a specific file, or every file in a repository file tree?

Only one of these may be specified. Default is file.

&range=file
&range=tree

- 2) How to identify a file (range=file) or top of tree (range=tree).

Zero or more of these may be specified. Default is whole repository.

&filepk={uploadtree_pk} An uploadtree_pk is a fossology internal unique key to a file in an upload file hierarchy.
e.g. &filepk=123
&filename={filename} e.g. &filename=foo.c
&filepath={filepath} e.g. &filepath=foo.tar.gz/A/B/myfile
&filepath=foo.c
&uploadpk={upload_pk} An upload_pk is a fossology internal unique key to an uploaded file (which might be a simple file like foo.c or a container like RHEL.x.iso or foo.tar).
e.g. &uploadpk=234

- 3) Query parameters.

Query parameters may be any table.column, or pseudo parameter (see 4).

e.g. &pkg_rpm.pkg_name="Pound-2.4-0.1.d.fc8.src.rpm"
&pkg_rpm.version=1.2.3

引用:

http://archive15.fossology.org/projects/fossology/wiki/REST_API

REST API

- Document (http://archive15.fossology.org/projects/fossology/wiki/REST_API)

- Proposalと書かれている。ましてや The only api that has been implemented to date is the following,とまで書かれている。

...と言うことに当初気づいていなかった...どうやら未リリースのようです。

まさに 3.5.0 のリリースメモ に↓と書かれている…！

Mainly 3.5.0 adds more documentation, infrastructure improvements and support for brand new FOSSology REST API.

- Source (<https://github.com/fossology/fossology/tree/master/src/www/ui/api>)

- 一方、ソースを探してみると実装は進みつつある模様？

- <https://github.com/fossology/fossology/blob/master/src/www/ui/api/Controllers/AuthController.php>
<https://github.com/fossology/fossology/blob/master/src/www/ui/api/documentation/openapi.yaml>
このあたりとか。

- Try-Error

- HTTPリクエスト投げたら response(error) が返ってくる！
- FiddlerでHTTP通信キャプチャしたらWeb UIからの操作も似たようなHTTPリクエストを送っている。
 - token取得→検査対象ファイルupload→report出力 を試そう。

というわけで試してみた...

結論からいうと、動きます.

REST API: token取得 (1of2)

tokens

METHOD: POST | SCHEME :// HOST [":" PORT] [PATH ["?" QUERY]] | http://fossology.local:8082/repo/api/v1/tokens | length: 46 bytes | Save | Send

QUERY PARAMETERS: + Add query parameter

HEADERS: Content-Type: application/json | Form | + Add header | + Add authorization

BODY: Text | JSON | XML | HTML | Enable body evaluation | length: 141 bytes

```
1 "username":"fossy",
2 "password":"fossy",
3 "token_expire":"2019-06-20",
4 "token_name":"fossology_test_token",
5 "token_scope":"write"
```

getリクエストだけを使う場合はreadでよい
getリクエスト以外を使う場合はwrite
検査対象をuploadする際はpostするのでwrite

以降のページのスクリーンショットは Chrome Extension の Restlet Client 2.19.2 を使用しています。
© 2019 Restlet, Inc. <https://restlet.com/modules/client/>

REST API: token取得 (2of2)

Response

Cache Detected - Elapsed Time: 199ms

201 Created

HEADERS

pretty ▾

```
Date: Mon, 10 Jun 2019 06:30:28 GMT +2s
Server: Apache/2.4.25 (Debian)
Content-Length: 258 bytes
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: application/json; charset=utf-8
```

▶ COMPLETE REQUEST HEADERS

BODY

pretty ▾

```
{
  "Authorization": "Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJmb3Nzb2xvZ3kubG9jYWwi"
```

lines num

アクセストークンが返される

length: 258 bytes

REST API: folder取得

folders

METHOD

GET

SCHEME // HOST [":" PORT] [PATH ["?" QUERY]]

http://fossology.local:8082/repo/api/v1/folders

Save

Send

length: 47 bytes

QUERY PARAMETERS

HEADERS

Form ▾

Authorization : Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJzdWIiOiIxMjM0NTY3ODkwIiwibmFtZSI6IkpvaG4gRG9lIiwiaWF0IjoxNTE2MjM5MDIyfQ.sflKxwRJSMeKKFQWEwJO2oUuZFTAQHn

+ Add header

✖ Add authorization

BODY

Payloads are disallowed for GET request.

Click here to open an entity-body editor

or change a method definition in [settings](#).

アクセストークンで認証する

Response

Cache Detected - Elapsed Time: 124ms

200 OK

HEADERS

pretty ▾

Date: Mon, 10 Jun 2019 06:37:34 GMT +2s
Server: Apache/2.4.25 (Debian)
Content-Length: 66 bytes
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: application/json; charset=utf-8

▶ COMPLETE REQUEST HEADERS

BODY

pretty ▾

```
[{"id": 1, "name": "Software Repository", "description": "Top Folder"}]
```

FOSSology上のフォルダID(1)が返される

length: 66 bytes

REST API: folder作成 (1of2)

folders_create

METHOD

POST

SCHEME :// HOST [":" PORT] [PATH ["?" QUERY]]

http://fossology.local:8082/repo/api/v1/folders

Save

Send

length: 47 bytes

▶ QUERY PARAMETERS

HEADERS ⑦ ↕

Form ▾

BODY ⑦

Text ▾

<input checked="" type="checkbox"/> Authorization	:	Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIU	x
<input checked="" type="checkbox"/> parentFolder	:	1	x
<input checked="" type="checkbox"/> folderName	:	fossology_test_folder	x
<input checked="" type="checkbox"/> folderDescription	:	folder create test via REST API	x
<input checked="" type="checkbox"/> Content-Type	:	application/json	x

+ Add header

x Add authorization

親(ルート)フォルダのID(1)を指定してpost

Text | JSON | XML | HTML Enable body evaluation

x length: 0 byte

REST API: folder作成 (2of2)

Response

Cache Detected - Elapsed Time: 120ms

201 Created

HEADERS

pretty ▾

```
Date: Mon, 10 Jun 2019 06:43:53 GMT +2s
Server: Apache/2.4.25 (Debian)
Content-Length: 38 bytes
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: application/json; charset=utf-8
```

▶ COMPLETE REQUEST HEADERS

BODY

pretty ▾

```
{
  code : 201,
  message : 2,
  type : "INFO"
}
```

lines nums

作成したフォルダのID(2)が返される

length: 38 bytes

REST API: folder作成後 再度folder取得

Response

Cache Detected - Elapsed Time: 110ms

200 OK

HEADERS

pretty

```
Date: Mon, 10 Jun 2019 06:52:24 GMT +2s
Server: Apache/2.4.25 (Debian)
Content-Length: 154 bytes
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: application/json; charset=utf-8
```

COMPLETE REQUEST HEADERS

BODY

pretty

```
[{"id": 1, "name": "Software Repository", "description": "Top Folder"}, {"id": 2, "name": "fossology_test_folder", "description": "folder create test via REST API"}]
```

lines num

作成したフォルダID(2)の情報が返される

length: 154 bytes

Home Search Browse Upload Jobs Organize Admin Help

Browse

Version: [3.5.0], Branch: [master], Commit: [#171d4d] 2019/04/12 08:47 UTC built @ 2019/04/12 09:32 UTC

User: fossy Group: fossy

Folder Navigation

Collapse All Expand All

- Software Repository
- fossology_test_folder

Show 50 entries

Search:

Upload Name and Description	Status	Comment	Main licenses	Assigned to	Upload Date	Priority
No data available in table						

Uploads in Software Repository

IE OSS generation | SPDX2 generation

Previous Next

Web UI 上にもきちんと作成されている

REST API: file upload (1of3)

upload

Save

METHOD

POST

SCHEME :// HOST [":" PORT] [PATH ["?" QUERY]]

http://fossology.local:8082/repo/api/v1/uploads

Send

length: 47 bytes

▶ QUERY PARAMETERS

HEADERS  Form ▾

<input checked="" type="checkbox"/> Authorization	:	Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIU		
<input checked="" type="checkbox"/> folderId	:	2		
<input checked="" type="checkbox"/> uploadDescription	:	fossology upload test via REST API		
<input checked="" type="checkbox"/> public	:	protected		
<input checked="" type="checkbox"/> Content-Type	:	multipart/form-data		

+ Add header

 Add authorization

フォルダ、解析オプションを指定してファイルを multipart/form-data形式でpostする

BODY  Form ▾

<input checked="" type="checkbox"/> inputFile	[File] =	Volumio2-master.zip (type: "application/x-zip-compressed"; size: 743...	
<input checked="" type="checkbox"/> Check_agent_copyright	[Text] =	1	
<input checked="" type="checkbox"/> Check_agent_ecc	[Text] =	1	
<input checked="" type="checkbox"/> Check_agent_keyword	[Text] =	1	
<input checked="" type="checkbox"/> Check_agent_mimetype	[Text] =	1	
<input checked="" type="checkbox"/> Check_agent_monk	[Text] =	1	
<input checked="" type="checkbox"/> Check_agent_nomos	[Text] =	1	
<input checked="" type="checkbox"/> Check_agent_pkagagent	[Text] =	1	
<input checked="" type="checkbox"/> deciderRules[]	[Text] =	nomosInMonk	
<input checked="" type="checkbox"/> deciderRules[]	[Text] =	reuseBulk	
<input checked="" type="checkbox"/> deciderRules[]	[Text] =	wipScannerUpdates	

+ Add form parameter

multipart/form-data

REST API: file upload (2of3)

fossology Home Search Browse Upload Jobs Organize Admin Help
Upload a New File
Version: [3.5.0], Branch: [master], Commit: [#171d4d] 2019/04/12 08:47 UTC built @ 2019/04/12 09:32 UTC
User: fossy Group: fossy [logout](#)

To manage your own group permissions go into **Admin > Groups > Manage Group Users**. To manage permissions for this one upload, go to **Admin > Upload Permissions**.

This option permits uploading a single file (which may be iso, tar, rpm, jar, zip, bz2, msi, cab, etc.) from your computer to FOSSology. Your FOSSology server has imposed a maximum upload file size of 700Mbytes.

1. Select the folder for storing the uploaded files:

2. Select the file to upload:

3. (Optional) Enter a description of this file:

4. Ignore SCM files (Git, SVN, TFS)
5. Visible only for active group [?](#)
 Visible for all groups [?](#)
 Make Public [?](#)

6. Select optional analysis
 Copyright/Email/URL/Author Analysis
 ECC Analysis, scanning for text fragments potentially relevant for export control
 Keyword Analysis
 MIME-type Analysis (Determine mimetype of every file. Not needed for licenses or buckets)
 Monk License Analysis, scanning for licenses performing a text comparison
 Nomos License Analysis, scanning for licenses using regular expressions
 Package Analysis (Parse package headers)

7. Automatic Concluded License Decider [?](#), based on
 ... scanners matches if all Nomos findings are within the Monk findings
 ... bulk phrases from reused packages
 ... new scanner results, i.e., decisions were marked as work in progress if new scanner finds additional licenses

8. (Optional) Reuse [?](#)
 Select an already uploaded package for reuse in specific folder

各パラメータはWeb UI経由で検査する際のこの部分に対応
ただし、deciderRules[] (Web UIの「7.」)はどうもうまく動作しなかった

Upload to reuse:

After you press Upload, please be patient while your file is transferring.

REST API: file upload (3of3)

Response

Cache Detected - Elapsed Time: 1.26s

201 Created

HEADERS

pretty ▾

```
Date: Mon, 10 Jun 2019 07:11:58 GMT +1s
Server: Apache/2.4.25 (Debian)
Content-Length: 38 bytes
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: application/json; charset=utf-8
```

▶ COMPLETE REQUEST HEADERS

BODY

pretty ▾

```
{
  code : 201,
  message : 2,
  type : "INFO"
}
```

lines nums

解析のjob ID(2)が返される

length: 38 bytes

REST API: file upload get

upload_get

METHOD

GET

SCHEME :// HOST [":" PORT] [PATH ["?" QUERY]]

http://fossology.local:8082/repo/api/v1/uploads

Save

Send

length: 47 bytes

▶ QUERY PARAMETERS

HEADERS  

Form 

Authorization : Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIU



+ Add header

 Add authorization



BODY  

Payloads are disallowed for **GET** request.
Click here to open an entity-body editor
or change a method definition in [settings](#).

Response

Cache Detected - Elapsed Time: 114ms

200 OK

HEADERS  

pretty 

Date: Mon, 10 Jun 2019 07:17:16 GMT +2s
Server: Apache/2.4.25 (Debian)
Content-Length: 210 bytes
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: application/json; charset=utf-8

▶ COMPLETE REQUEST HEADERS

BODY  

pretty 

job ID(2)のuploadsがあることが確認できる

```
{  
  folderid : 2,  
  foldername : "fossology_test_folder",  
  id : 2,  
  description : "fossology upload test via REST API",  
  uploadname : "Volumio2-master.zip",  
  uploaddate : "2019-06-10 07:11:59.200017+00",  
  filesize : 7432176}
```

REST API: file upload get

The screenshot shows the fossology web interface under the 'Browse' section. The top navigation bar includes links for Home, Search, Browse, Upload, Jobs, Organize, Admin, and Help. On the right, there are user details: 'User: fossy' and 'Group: fossy', along with a 'logout' link. The main content area is titled 'Uploads in Software Repository'. A table lists the uploaded file 'Volumio2-master.zip'. The table columns are: Upload Name and Description, Status, Comment, Main licenses, Assigned to, Upload Date, and Priority. The 'Status' column for the file shows 'open'. The 'Assigned to' column shows 'Unassigned'. The 'Upload Date' is '2019-06-10 07:11:59'. Below the table, there are buttons for 'Select', 'Whole folder', and 'Marked uploads', and options to run 'ReadME_OSS generation' or 'SPDX2 generation'. A red dashed box highlights the 'Upload Name and Description' row for the uploaded file. A callout box points from this highlighted row to the text 'Web UI 上にもきちんと作成されている'.

Upload Name and Description	Status	Comment	Main licenses	Assigned to	Upload Date	Priority
Volumio2-master.zip fossology upload test via REST API -- select action --	open			Unassigned	2019-06-10 07:11:59	

Web UI 上にもきちんと作成されている

REST API: report生成(1of2)

report_get

METHOD : GET
SCHEME : // HOST [":" PORT] [PATH ["?" QUERY]]
http://fossology.local:8082/repo/api/v1/report
length: 46 bytes

Save ⚙ ▾

Send ▾

QUERY PARAMETERS

+ Add query parameter

HEADERS ⚙ ▾

Form ▾

Authorization : Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJzdWIiOiIxMjM0NTY3ODkwIiwibmFtZSI6IkpvaG4gRG9lIiwiaWF0IjoxNTE2MjM5MDIyfQ.sflKxwRJSvDyLWzqkXoHnOOGC9c&uploadId=2&reportFormat=spdx2

uploadId : 2

reportFormat : SPDX2

+ Add header X Add authorization

BODY ⚙ ▾

Payloads are disallowed for **GET** request.
Click here to open an entity-body editor
or change a method definition in [settings](#).

解析のjob ID(2)とレポート出力形式(spdx2)を指定する
'dep5',
'spdx2',
'spdx2tv',
'readmeoss',
'unifiedreport'
の5種類が指定可能

REST API: report生成(2of2)

Response

Cache Detected - Elapsed Time: 187ms

201 Created

HEADERS ?

pretty ▾

```
Date: Mon, 10 Jun 2019 07:26:44 GMT +8s
Server: Apache/2.4.25 (Debian)
Content-Length: 80 bytes
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: application/json; charset=utf-8
```

▶ COMPLETE REQUEST HEADERS

BODY ?

pretty ▾

```
{
  code : 201,
  message : "fossology.local/repo/api/v1/report/3",
  type : "INFO"
}
```

lines nums

length: 80 bytes

report ID(3)が返される

REST API: report取得

reportXX

METHOD
GET

SCHEME :// HOST [":" PORT] [PATH ["?" QUERY]]
http://fossology.local:8082/repo/api/v1/report/3

QUERY PARAMETERS
report ID(3)を指定する
+ Add query parameter

HEADERS
Authorization : Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1n2M
+ Add header
Add authorization

BODY
Payloads are disallowed for GET request.
Click here to open an entity-body editor
or change a method definition in settings.

Save Send

Response

Cache Detected - Elapsed Time: 164ms

200 OK

Headers
Date: Mon, 10 Jun 2019 07:30:41 GMT +2s
Server: Apache/2.4.25 (Debian)
Content-Type: application/zip
Content-Disposition: attachment; filename="SPDX2_Volumio2-master.zip_1560151604-spdx.rdf"
Cache-Control: must-revalidate
Pragma: private
Content-Length: 361 kilobytes
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive

BODY
THE TYPE OF THE RESPONSE BODY
IS UNKNOWN
reportが返される
The server did not provide the mandatory "Content-type" header.
Click here to download it,
or open either the hex or raw view.

Reports

名前	更新日時	種類	サイズ
SPDX2TV_Volumio2-master.zip_1560151800.spdx	2019/06/10 16:34	SPDX ファイル	107 KB
SPDX2_Volumio2-master.zip_1560151604-spdx.rdf	2019/06/10 16:30	RDF ファイル	362 KB

```
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
          xmlns:spdx="http://spdx.org/rdf/terms#"
          xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
<spdx:SpdxDocument rdf:about="http://c2ee8a2dec83/repo/SPDX2_Volumio2-master.zip_1560151604-spdx.rdf#SPDXRef-DOCUMENT">
  <spdx:specVersion>SPDX-2.1</spdx:specVersion>
  <spdx:dataLicense rdf:resource="http://spdx.org/licenses/CC0-1.0" />
```

SPDXVersion: SPDX-2.1
DataLicense: CC0-1.0

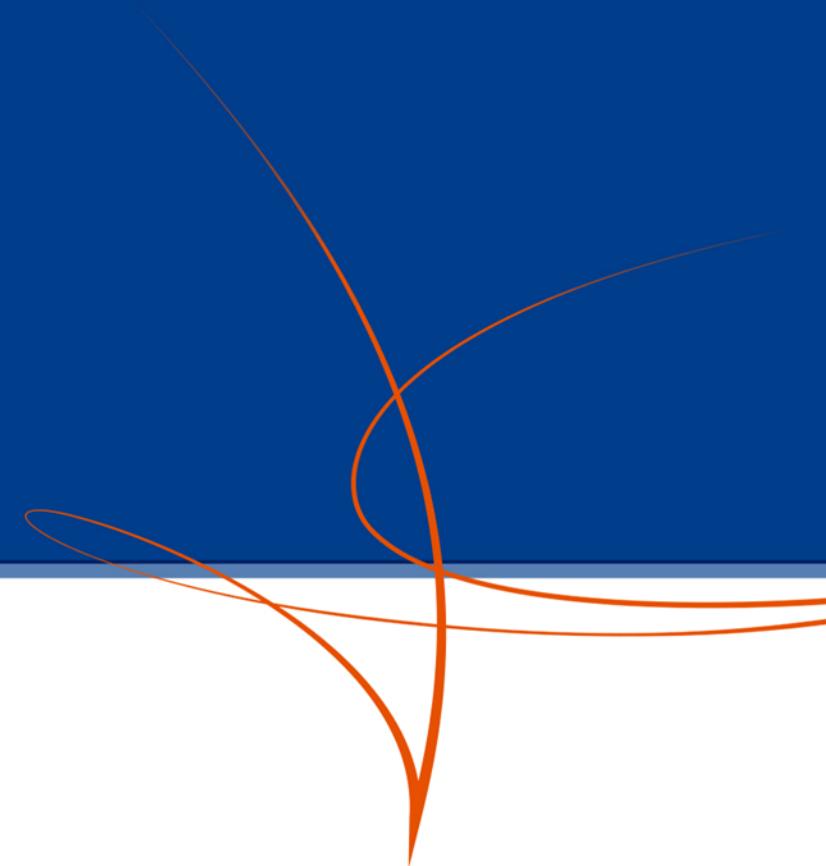
Document Information

DocumentNamespace: http://c2ee8a2dec83/repo/SPDX2TV_Volumio2-master.zip_1560151800.spdx
DocumentName: /srv/fossology/repository/report
SPDXID: SPDXRef-DOCUMENT

Creation Information

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Creator: Person: fossy (y)
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This document was created using license information and a generator from Fossology.
</text>
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Summary



Summary

REST API の実装状況

- Requestを投げればResponseが返ってくる
- 試した限りではどのRequestも**ほぼ**正常処理された

課題

- Document上はProposalであり未リリースとみられる **3.5.0** でリリースされました！
 - 一部リクエストについては、パラメータが処理されないケースも見受けられる。
- Documentも整備が未だという状況であり、実装にはソース解読が必要
 - 特に以下のソースが有用（これ見れば大体分かる）
 - <https://github.com/fossology/fossology/blob/master/src/www/ui/api/documentation.openapi.yaml>
 - <https://github.com/fossology/fossology/blob/master/src/www/ui/api/index.php>
 - 上記で分からなければ（Requestがerrorで返ってくる場合等）以下の各実装を確認する
 - <https://github.com/fossology/fossology/tree/master/src/www/ui/api/Controllers>

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