FOSSology: Feature Overview

What is FOSSology?

A Web server application for license and copyright compliance of software components.

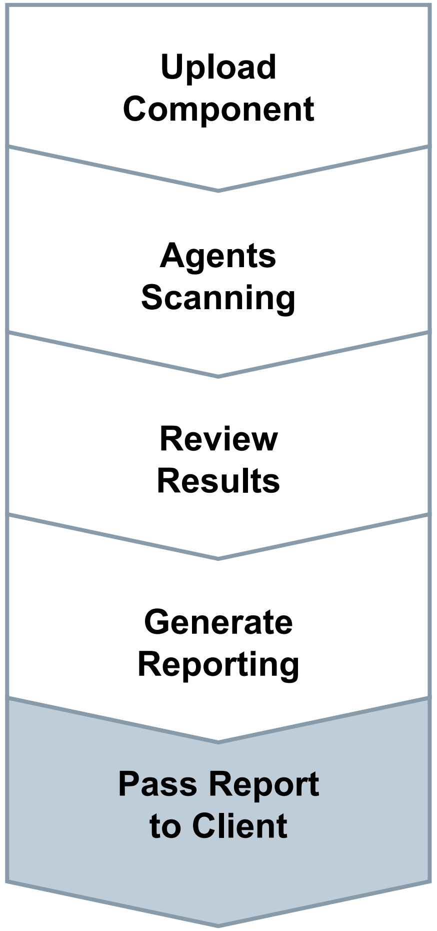
FOSSology Project
https://www.fossology.org/

- Published first in 2008, GPL-2.0
- 2015: Linux Foundation collaboration project
- Web server based and command line interfaces
- Scanning agents searching for license and copyright relevant hits (and more …)
- A multi-user / multi-tenant Web UI for review organizing clearing job

FOSSology Development
https://www.github.com/fossology/fossology

- Standard Web application stack:
  - Linux, Apache 2, PostgreSQL, PHP,
- Web-based UI in PHP, but scanners written in C / C++
- Besides Web UI:
  - Command line utilities

How does FOSSology work?



- Uploading source code archive (*.zip, *.tar.gz, etc)

- Agents scan for license relevant text
- Copyrights, ECC, your keywords to look for etc.

- Review scanner results for wrong license classification
- Review other scanner findings (copyrights, ECC)

- Result of the “clearing”
  - SPDX reporting
  - Generated notice or readme file
  - debian-copyright

Hands-On: Basic End-to-End Workflow

Functionality

1. **Using FOSSology End-to-End**
   - From uploading …
   - … to generating report: SPDX
2. **Uploading - offers a variety of selections**
3. **Review the uploaded file in the license browser**
4. **Review the found licenses in the aggregated view**
5. **Do the clearing work**
6. **Review the copyrights**
7. **Review the Export Control and Customs (ECC)**
8. **Generate desired report output**

Example

Upload ionicons-3.0.0

- Go to license browser by clicking upload name or selecting clearing from the action menu
- Select “go to all …. with licenses”
- Review licenses and apply decisions

Select the copyright, e-mail, url section from the yellow menu bar area

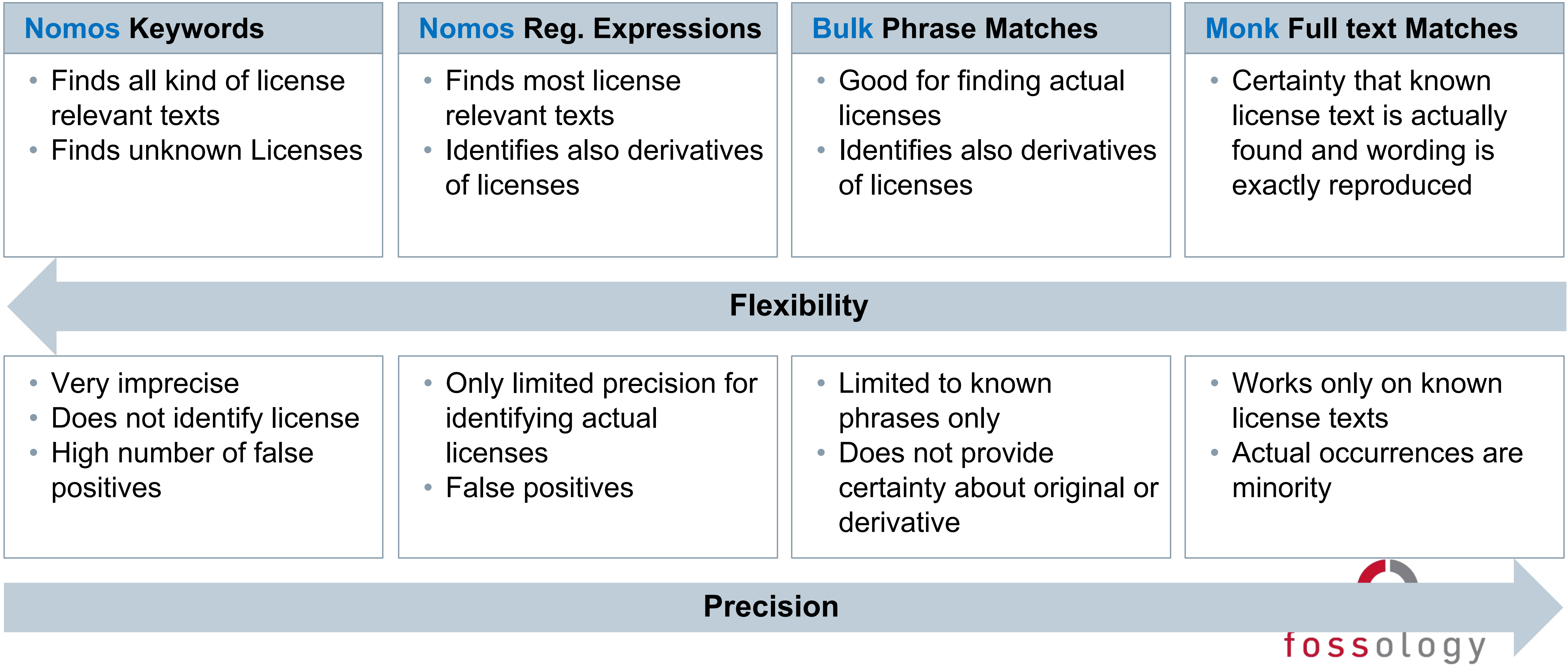
- Review copyright statements and correct in case

Select ECC from the yellow area and review

Go to Browse main view

- Select the pop-up menu of the icons upload

Features: Two License Scanner: Nomos and Monk



Nomos Keywords	Nomos Reg. Expressions	Bulk Phrase Matches	Monk Full text Matches
• Finds all kind of license relevant texts • Finds unknown Licenses	• Finds most license relevant texts • Identifies also derivatives of licenses	• Good for finding actual licenses • Identifies also derivatives of licenses	• Certainty that known license text is actually found and wording is exactly reproduced

Flexibility

• Very imprecise • Does not identify license • High number of false positives	• Only limited precision for identifying actual licenses • False positives	• Limited to known phrases only • Does not provide certainty about original or derivative	• Works only on known license texts • Actual occurrences are minority

Precision

Features: Bulk Scan, Reviewing Many Files at Once

The FOSSology software cannot know all possible license relevant text phrases

Use Case

- Finding standard and known license texts is straightforward
- ***Do I need to create a clearing decision for every file?***
- ***If the scanner yields wrong results, do I need to go into every file and correct then?***

Solution

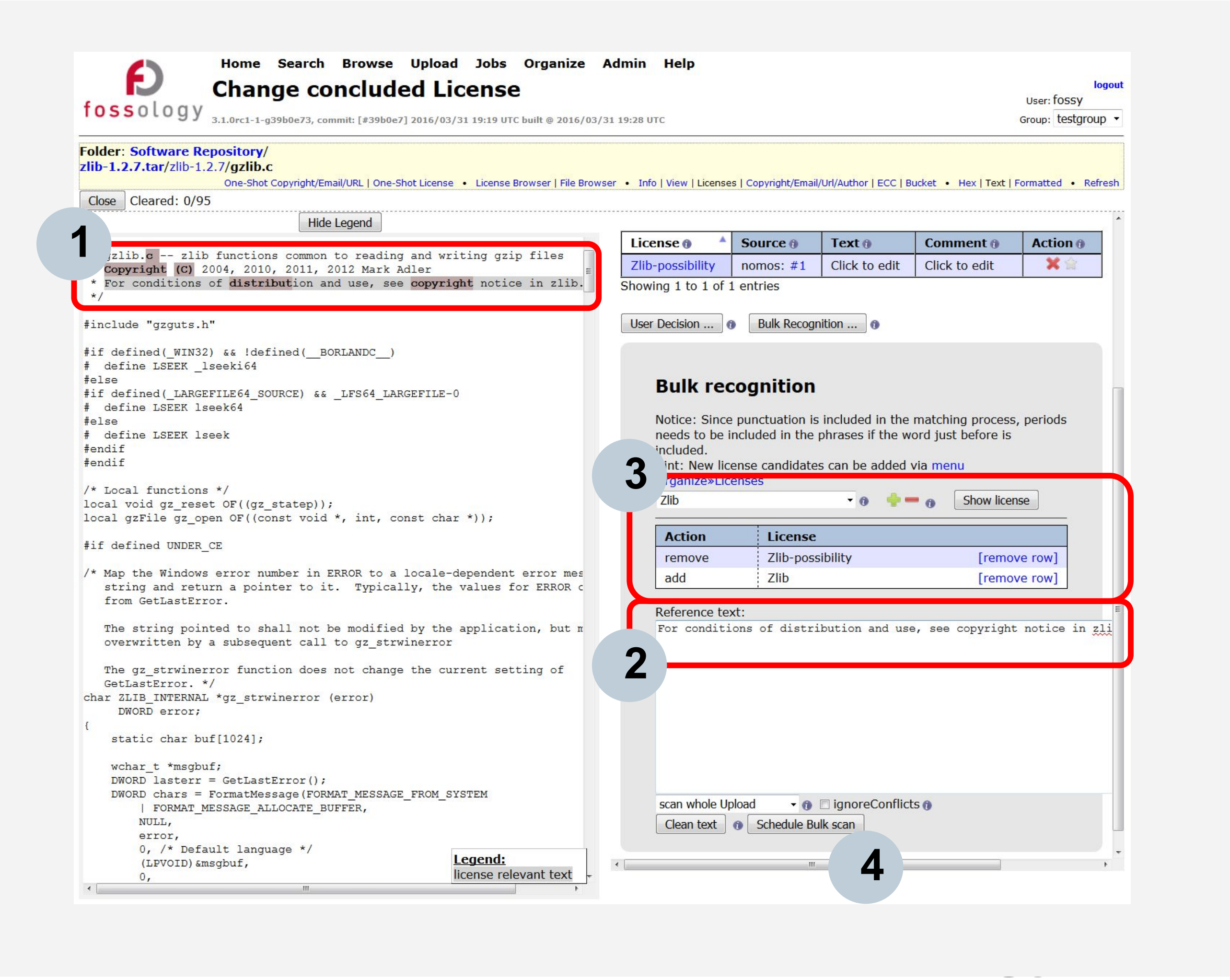
- FOSSology allows the user to define text phases …
  - **For confirmation …**
  - **… or correction**
- And assign license confirmations or corrections to it
  - Every time a file is found with this text phrase (100%) …
  - … the confirmation or correction is applied to it.
- No need to go through every file again.
- Does not apply with scan result conflicts

fossology

Features: Using Bulk Scan

User Interface

- Copy a characteristic text phrase from file view left (1)
- Paste into the bulk scan text field (2)
  - The application will search for file with this text
- Define scanner license findings (3)
  - For correction / removal
  - For confirmation, creating a clearing decision
- Bulk scan will run over all files of the package and apply clearing decisions or scanner corrections where matching (4)


fossology
Home
Search
Browse
Upload
Jobs
Organize
Admin
Help
logout
One-Shot Copyright/Email/URL | One-Shot License • License Browser | File Browser • Info | View | Licenses | Copyright/Email/Url/Author | ECC | Bucket • Hex | Text | Formatted • Refresh
Close
Hide Legend
User Decision ...
Bulk Recognition ...
Show license
Clean text
Schedule Bulk scan
1
2
3
4

Change concluded License

3.1.0rc1-1-g39b0e73, commit: [#39b0e7] 2016/03/31 19:19 UTC built @ 2016/03/31 19:28 UTC

User: fossy
Group: testgroup

Folder: Software Repository/
zlib-1.2.7.tar/zlib-1.2.7/gzlib.c

Cleared: 0/95

```
 gzlib.c -- zlib functions common to reading and writing gzip files
 Copyright (C) 2004, 2010, 2011, 2012 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.
 */

#include "gzguts.h"

#if defined(_WIN32) && !defined(__BORLANDC__)
#  define LSEEK _lseeki64
#else
#if defined(_LARGEFILE64_SOURCE) && _LFS64_LARGEFILE-0
#  define LSEEK lseek64
#else
#  define LSEEK lseek
#endif
#endif

/* Local functions */
local void gz_reset OF((gz_statep));
local gzFile gz_open OF((const void *, int, const char *));

#if defined UNDER_CE

/* Map the Windows error number in ERROR to a locale-dependent error mes
   string and return a pointer to it.  Typically, the values for ERROR c
   from GetLastError.

   The string pointed to shall not be modified by the application, but m
   overwritten by a subsequent call to gz_strwinerror

   The gz_strwinerror function does not change the current setting of
   GetLastError. */
char ZLIB_INTERNAL *gz_strwinerror (error)
     DWORD error;
{
    static char buf[1024];

    wchar_t *msgbuf;
    DWORD lasterr = GetLastError();
    DWORD chars = FormatMessage(FORMAT_MESSAGE_FROM_SYSTEM
        | FORMAT_MESSAGE_ALLOCATE_BUFFER,
        NULL,
        error,
        0, /* Default language */
        (LPVOID)&msgbuf,
        0,
```

Legend:
license relevant text

License	Source	Text	Comment	Action
Zlib-possibility	nomos: #1	Click to edit	Click to edit	✖ ☆

Showing 1 to 1 of 1 entries

Bulk recognition

Notice: Since punctuation is included in the matching process, periods needs to be included in the phrases if the word just before is included.
int: New license candidates can be added via menu rganize»Licenses

Zlib

Action	License	
remove	Zlib-possibility	[remove row]
add	Zlib	[remove row]

Reference text:

```
For conditions of distribution and use, see copyright notice in zli
```

scan whole Upload
□ ignoreConflicts

Key Features: Bulk Scanning – A few Things to Consider

Scoping Bulk Scan	• Bulk scan can be applied on folders but also an entire uploads
Larger bulk scan sections	• Prefer larger text portion instead of smaller ones, this increases the precision • However, do not consider copyright statements for example, as they usually vary within an upload
Comment characters	• Comment characters such as #, //, * , /* are filtered out anyway, copying them in does not matter • But other characters are not filtered out („%“). They will make a difference
No characteristic text phrase	• Consider correcting license scan results directly using the edit feature • With the edit feature available in the license browser view, no text phrase is defined

Features: Edit License Conclusions in License Browser

Edit is about a short cut at license review

Use Case

- Within a software component, I know files / folders already.
- With a software component, I know that files are irrelevant.
  - Unused architecture
  - Test files, code examples
  - Build infrastructure
- **Do I need to look at the files?**

Solution

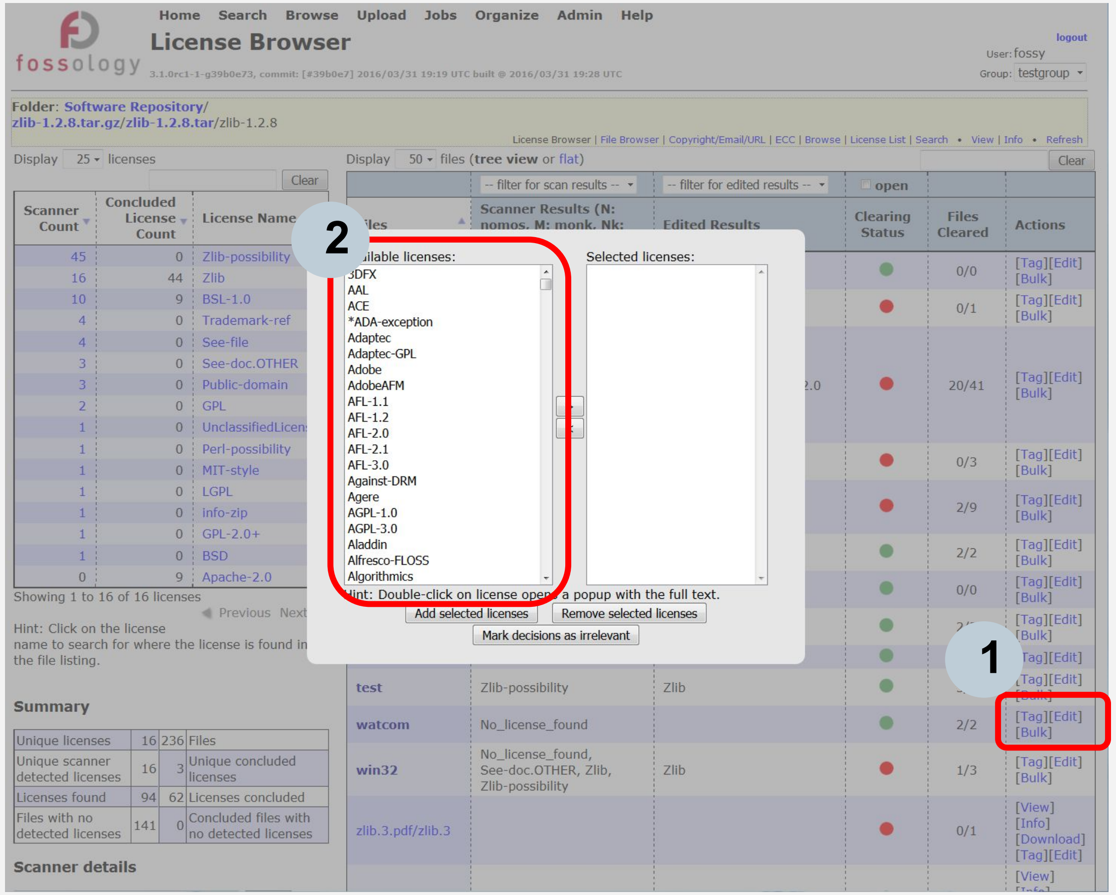
- FOSSology allow to set / unset license on folder level
- In license browser, the user can set the licenses on folders
  - Set or confirm licenses
  - Remove scan results from the clearing decision
  - Mark files as irrelevant
- What happens actually?
  - The “Edit” creates clearing decisions
  - The scan results are not touched (and preserved)
  - No clearing decision final on scan result conflicts

fossology

Features: Using License Conclusions in License Browser

User Interface

- At aggregated license browser view select link [Edit]
- Select either licenses for decision …
- … or mark file trees irrelevant (for distribution)



License Browser

3.1.0rc1-1-g39b0e73, commit: [#39b0e7] 2016/03/31 19:19 UTC built @ 2016/03/31 19:28 UTC

User: fossy
Group: testgroup

Folder: Software Repository/
zlib-1.2.8.tar.gz/zlib-1.2.8.tar/zlib-1.2.8

License Browser | File Browser | Copyright/Email/URL | ECC | Browse | License List | Search • View | Info • Refresh

Display 25 licenses

Scanner Count	Concluded License Count	License Name
45	0	Zlib-possibility
16	44	Zlib
10	9	BSL-1.0
4	0	Trademark-ref
4	0	See-file
3	0	See-doc.OTHER
3	0	Public-domain
2	0	GPL
1	0	UnclassifiedLicen
1	0	Perl-possibility
1	0	MIT-style
1	0	LGPL
1	0	info-zip
1	0	GPL-2.0+
1	0	BSD
0	9	Apache-2.0

Showing 1 to 16 of 16 licenses

Previous Next

Hint: Click on the license name to search for where the license is found in the file listing.

Summary

Unique licenses	16	236	Files
Unique scanner detected licenses	16	3	Unique concluded licenses
Licenses found	94	62	Licenses concluded
Files with no detected licenses	141	0	Concluded files with no detected licenses

Scanner details

Display 50 files (tree view or flat)

Clear

-- filter for scan results -- | -- filter for edited results -- | □ open

Files	Scanner Results (N: nomos, M: monk, Nk:	Edited Results	Clearing Status	Files Cleared	Actions
			●	0/0	[Tag][Edit] [Bulk]
			●	0/1	[Tag][Edit] [Bulk]
		.0	●	20/41	[Tag][Edit] [Bulk]
			●	0/3	[Tag][Edit] [Bulk]
			●	2/9	[Tag][Edit] [Bulk]
			●	2/2	[Tag][Edit] [Bulk]
			●	0/0	[Tag][Edit] [Bulk]
			●	2/	[Tag][Edit] [Bulk]
			●		[Tag][Edit]
test	Zlib-possibility	Zlib	●		[Tag][Edit]
watcom	No_license_found		●	2/2	[Tag][Edit] [Bulk]
win32	No_license_found, See-doc.OTHER, Zlib, Zlib-possibility	Zlib	●	1/3	[Tag][Edit] [Bulk]
zlib.3.pdf/zlib.3			●	0/1	[View] [Info] [Download] [Tag][Edit]
					[View]

ailable licenses:

3DFX
AAL
ACE
*ADA-exception
Adaptec
Adaptec-GPL
Adobe
AdobeAFM
AFL-1.1
AFL-1.2
AFL-2.0
AFL-2.1
AFL-3.0
Against-DRM
Agere
AGPL-1.0
AGPL-3.0
Aladdin
Alfresco-FLOSS
Algorithmics

Selected licenses:

int: Double-click on license opens a popup with the full text.

Add selected licenses | Remove selected licenses

Mark decisions as irrelevant

Features: Reuse of License Corrections

Reuse is about reusing already done work.

Use Case

- Upload and clearing of a component:
  - Going file-based
  - Maybe using bulk phrase
  - Reviewing copyrights
- ***Uploading a newer version***
  - Do I need to go through all files again?

Solution

○ FOSSology maintains hash values of every file

- It already reuses scans (rescan possible for new agent)
- **Users want to reuse clearing decisions = what the user has decided**

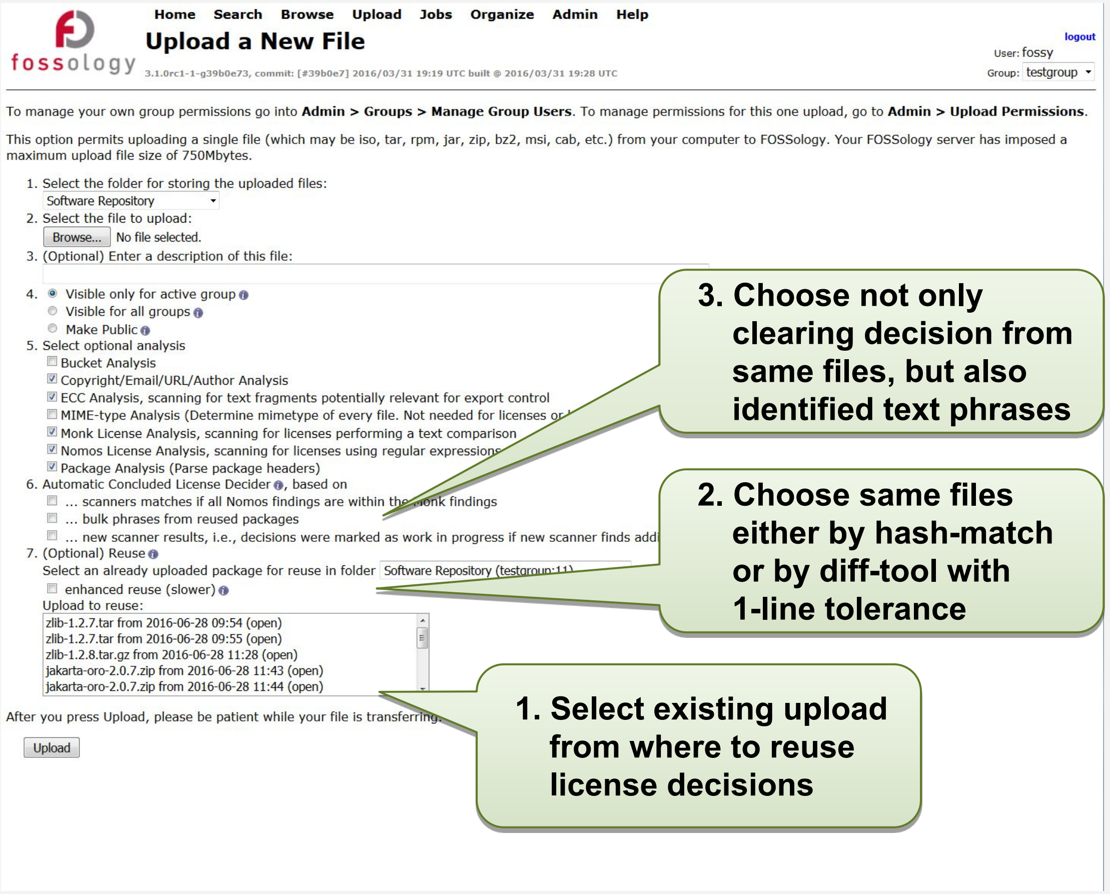
○ Three different reuse functions

- Reuse clearing based on same file hashes
- Reuse bulk scan operation = individual text phrases
- Reuse where file differs by one line (using diff-tool = slow!)

Features: Using Reuse of License Corrections

User Interface

- At upload you can select another existing package on server for reusing license review data
- Three main reuse options given:
  - Reuse license review data at same hash value calculated for files (1)
  - Reuse license review data at one-line tolerance using the diff tool (2)
  - Reuse bulk scan tasks entered for selected existing package also for new package (3)



Upload a New File

3.1.0rc1-1-g39b0e73, commit: [#39b0e7] 2016/03/31 19:19 UTC built @ 2016/03/31 19:28 UTC

User: fossy
Group: testgroup

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 750Mbytes.

1. Select the folder for storing the uploaded files:
   Software Repository
2. Select the file to upload:
   Browse... No file selected.
3. (Optional) Enter a description of this file:
4. ● Visible only for active group
   ○ Visible for all groups
   ○ Make Public
5. Select optional analysis
   □ Bucket Analysis
   ☑ Copyright/Email/URL/Author Analysis
   ☑ ECC Analysis, scanning for text fragments potentially relevant for export control
   □ MIME-type Analysis (Determine mimetype of every file. Not needed for licenses or
   ☑ Monk License Analysis, scanning for licenses performing a text comparison
   ☑ Nomos License Analysis, scanning for licenses using regular expressions
   ☑ Package Analysis (Parse package headers)
6. 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 addi
7. (Optional) Reuse
   Select an already uploaded package for reuse in folder Software Repository (testgroup:11)
   □ enhanced reuse (slower)
   Upload to reuse:
   zlib-1.2.7.tar from 2016-06-28 09:54 (open)
   zlib-1.2.7.tar from 2016-06-28 09:55 (open)
   zlib-1.2.8.tar.gz from 2016-06-28 11:28 (open)
   jakarta-oro-2.0.7.zip from 2016-06-28 11:43 (open)
   jakarta-oro-2.0.7.zip from 2016-06-28 11:44 (open)

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

Upload

3. Choose not only clearing decision from same files, but also identified text phrases

2. Choose same files either by hash-match or by diff-tool with 1-line tolerance

1. Select existing upload from where to reuse license decisions

Features: Copyright Statements

Edit is about a short cut at license review

Use Case

- Many license obligations ask for listing the copyrights at distribution.
- Example form BSD: *“Redistributions in binary form must reproduce the above copyright notice,…”*
- **How do I find out all relevant copyright statements of an upload?**

Solution

- FOSSology scans based on regular expressions
  - Copyright statements (yes, also © in UTF-8, 1152, …)
  - Authored by, contributed by, e-mail addresses
  - E-Mail addresses and http/https URLs
- Stored on file level!
  - Maintained by hashes of the file
  - Editing the copyright of a file, edits it also for future uploads
  - Recovery of deleted copyright statements possible
  - Table-sheet editing up to come

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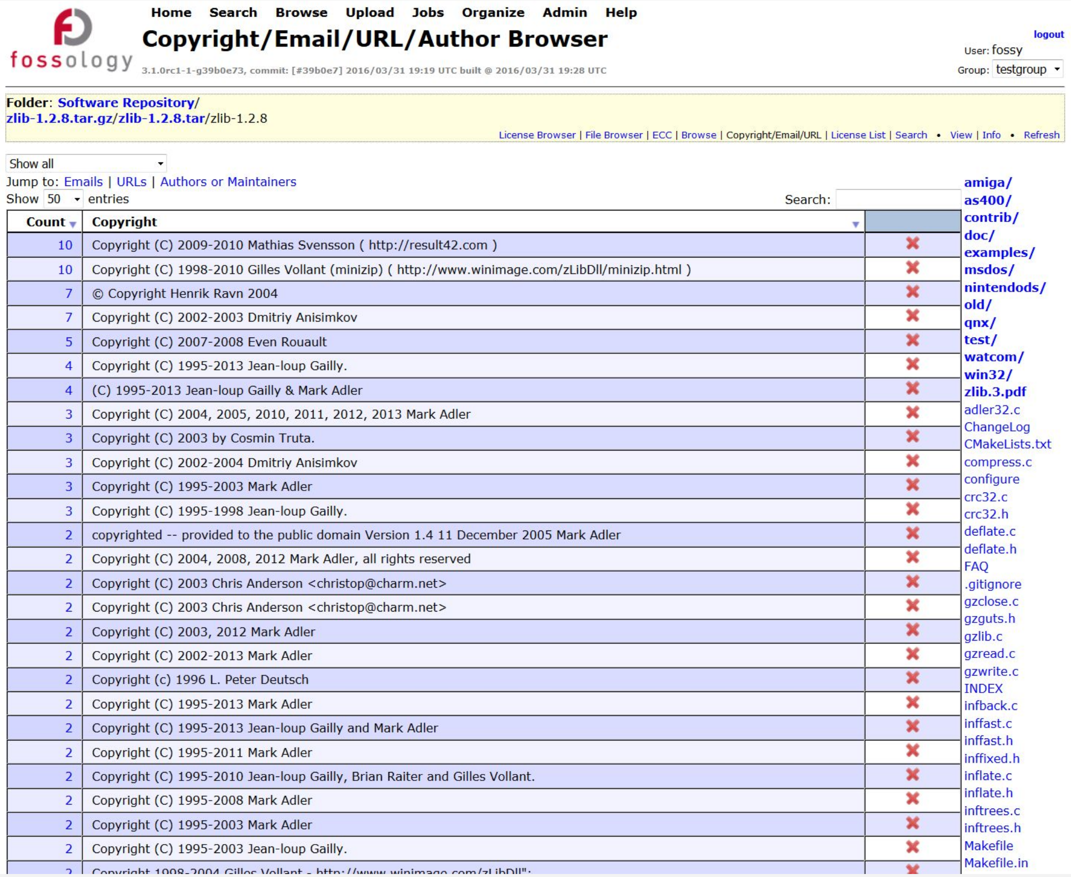
Features: Using Copyright Scanning

User Interface

- Copyright findings are presented in an aggregated view
    - For single files
    - All found items at folder level
    - All items of the upload



Copyright/Email/URL/Author Browser

3.1.0rc1-1-g39b0e73, commit: [#39b0e7] 2016/03/31 19:19 UTC built @ 2016/03/31 19:28 UTC

User: fossy
Group: testgroup

Folder: Software Repository/
zlib-1.2.8.tar.gz/zlib-1.2.8.tar/zlib-1.2.8

License Browser | File Browser | ECC | Browse | Copyright/Email/URL | License List | Search • View | Info • Refresh

Show all

Jump to: Emails | URLs | Authors or Maintainers

Show 50 entries

Search:

Count	Copyright	
10	Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)	✖
10	Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)	✖
7	© Copyright Henrik Ravn 2004	✖
7	Copyright (C) 2002-2003 Dmitriy Anisimkov	✖
5	Copyright (C) 2007-2008 Even Rouault	✖
4	Copyright (C) 1995-2013 Jean-loup Gailly.	✖
4	(C) 1995-2013 Jean-loup Gailly & Mark Adler	✖
3	Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013 Mark Adler	✖
3	Copyright (C) 2003 by Cosmin Truta.	✖
3	Copyright (C) 2002-2004 Dmitriy Anisimkov	✖
3	Copyright (C) 1995-2003 Mark Adler	✖
3	Copyright (C) 1995-1998 Jean-loup Gailly.	✖
2	copyrighted -- provided to the public domain Version 1.4 11 December 2005 Mark Adler	✖
2	Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved	✖
2	Copyright (C) 2003 Chris Anderson <christop@charm.net>	✖
2	Copyright (C) 2003 Chris Anderson <christop@charm.net>	✖
2	Copyright (C) 2003, 2012 Mark Adler	✖
2	Copyright (C) 2002-2013 Mark Adler	✖
2	Copyright (c) 1996 L. Peter Deutsch	✖
2	Copyright (C) 1995-2013 Mark Adler	✖
2	Copyright (C) 1995-2013 Jean-loup Gailly and Mark Adler	✖
2	Copyright (C) 1995-2011 Mark Adler	✖
2	Copyright (C) 1995-2010 Jean-loup Gailly, Brian Raiter and Gilles Vollant.	✖
2	Copyright (C) 1995-2008 Mark Adler	✖
2	Copyright (C) 1995-2003 Mark Adler	✖
2	Copyright (C) 1995-2003 Jean-loup Gailly.	✖
2	Copyright 1998-2004 Gilles Vollant - http://www.winimage.com/zLibDll";	✖

amiga/
as400/
contrib/
doc/
examples/
msdos/
nintendods/
old/
qnx/
test/
watcom/
win32/
zlib.3.pdf
adler32.c
ChangeLog
CMakeLists.txt
compress.c
configure
crc32.c
crc32.h
deflate.c
deflate.h
FAQ
.gitignore
gzclose.c
gzguts.h
gzlib.c
gzread.c
gzwrite.c
INDEX
infback.c
inffast.c
inffast.h
inffixed.h
inflate.c
inflate.h
inftrees.c
inftrees.h
Makefile
Makefile.in

Features: Reporting

For distribution of OSS, the license relevant information must be provided

Use Case

- All the package has been analyzed, but to get the notice file contents: how do I get my results?

Solution

- FOSSology allows for exporting license and copyright information about the open source package in various formats:
  - **The Linux Foundation / OpenChain:**
    - SPDX 2.0 reporting in both Tag:Value and RDF/XML notations
  - **Debian ecosystem:** Debian-copyright (a.k.a. DEP5) files
  - **For your use:**
    - Plain listing of licenses with files
    - Generation of contents for Readme or notice files
    - Template based (using twig): extend with your own report

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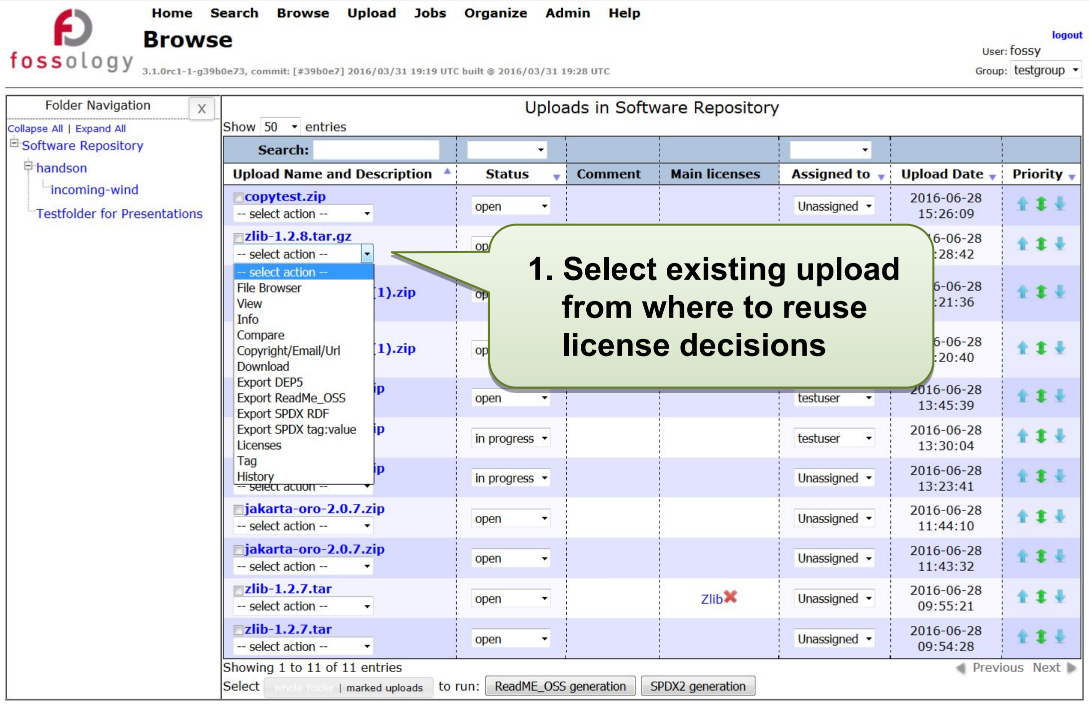
Features: Using Reporting

User Interface

- All upload items are listed in browser
- Selection of different report items in pop-up menu at every uploaded item, export
  - Debian-copyright, DEP5
  - Readme, notice file
  - SPDX RDF/XML
  - SPDX Tag:Value



Browse

3.1.0rc1-1-g39b0e73, commit: [#39b0e7] 2016/03/31 19:19 UTC built @ 2016/03/31 19:28 UTC

User: fossy
Group: testgroup

Uploads in Software Repository

Show 50 entries

Search:

Upload Name and Description	Status	Comment	Main licenses	Assigned to	Upload Date	Priority
□ copytest.zip -- select action --	open			Unassigned	2016-06-28 15:26:09	
□ zlib-1.2.8.tar.gz -- select action --	op				6-06-28 :28:42	
1).zip	op				6-06-28 :21:36	
1).zip	op				6-06-28 :20:40	
ip	open			testuser	2016-06-28 13:45:39	
ip	in progress			testuser	2016-06-28 13:30:04	
ip -- select action --	in progress			Unassigned	2016-06-28 13:23:41	
□ jakarta-oro-2.0.7.zip -- select action --	open			Unassigned	2016-06-28 11:44:10	
□ jakarta-oro-2.0.7.zip -- select action --	open			Unassigned	2016-06-28 11:43:32	
□ zlib-1.2.7.tar -- select action --	open		Zlib✖	Unassigned	2016-06-28 09:55:21	
□ zlib-1.2.7.tar -- select action --	open			Unassigned	2016-06-28 09:54:28	

1. Select existing upload from where to reuse license decisions

Showing 1 to 11 of 11 entries

Select whole folder | marked uploads to run: ReadME_OSS generation SPDX2 generation

Features: Auto Deciding

Review work can be tedious, if there are two scanner, why not letting them do the work?

User Case

- There are several scanners, Nomos with regular expressions, Monk with text similarity.
- If both scanners find the same license, do I need to check?

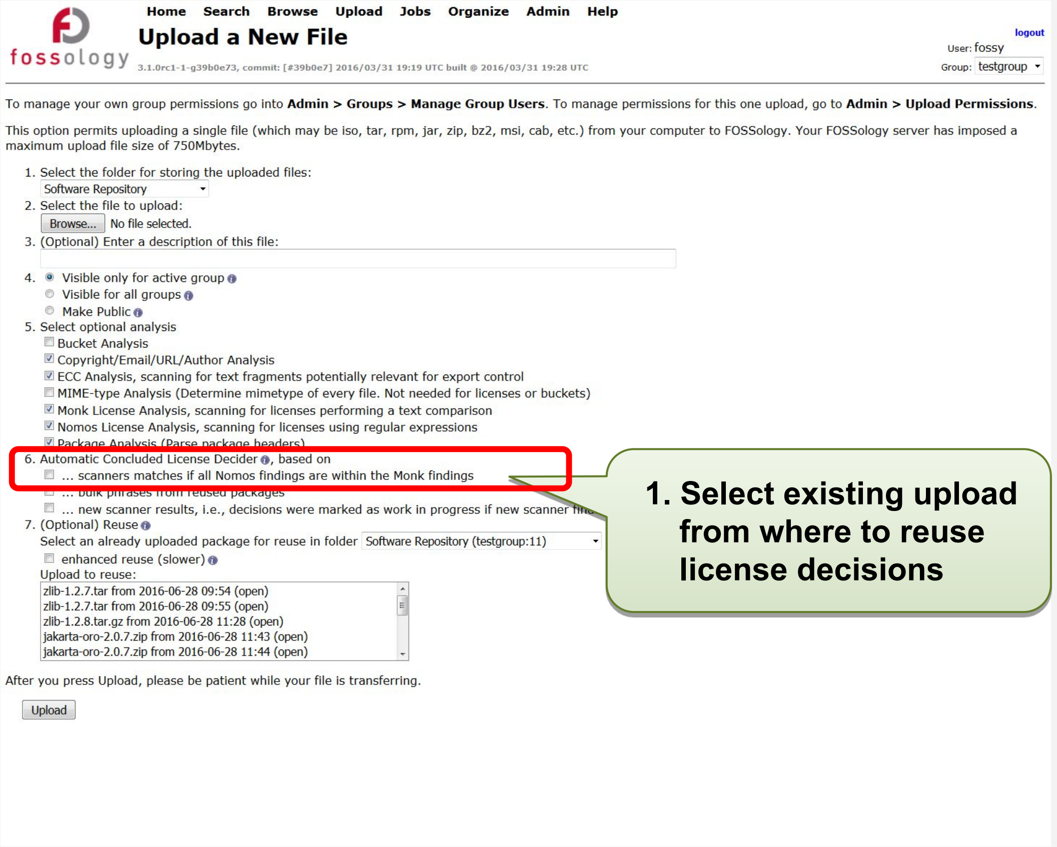
Solution

- Decider agent reviews licenses found for this file
- If there are no conflicts in the identified licenses from the two different scanners, you can apply automatically apply decisions
- Example for “no conflict situations” for a decider
  - regular expression and text comparison the same license
  - and all regex matches are inside a text match
  - no other license information detected in file -> no review necessary
- It works with the third Ninka scanner as well

Features: Using Auto Deciding

User Interface

- At upload you can select auto deciding
- Select the checkbox for the setting auto deciding for Nomos and Monk
- If you have installed Ninka, you can select auto deciding considering result from all three scanners



Upload a New File

3.1.0rc1-1-g39b0e73, commit: [#39b0e7] 2016/03/31 19:19 UTC built @ 2016/03/31 19:28 UTC

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 750Mbytes.

1. Select the folder for storing the uploaded files:
   Software Repository
2. Select the file to upload:
   Browse... No file selected.
3. (Optional) Enter a description of this file:
4. ● Visible only for active group
   ○ Visible for all groups
   ○ Make Public
5. Select optional analysis
   □ Bucket Analysis
   ☑ Copyright/Email/URL/Author Analysis
   ☑ ECC Analysis, scanning for text fragments potentially relevant for export control
   □ 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)
6. 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 fin
7. (Optional) Reuse
   Select an already uploaded package for reuse in folder Software Repository (testgroup:11)
   □ enhanced reuse (slower)
   Upload to reuse:
   zlib-1.2.7.tar from 2016-06-28 09:54 (open)
   zlib-1.2.7.tar from 2016-06-28 09:55 (open)
   zlib-1.2.8.tar.gz from 2016-06-28 11:28 (open)
   jakarta-oro-2.0.7.zip from 2016-06-28 11:43 (open)
   jakarta-oro-2.0.7.zip from 2016-06-28 11:44 (open)

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

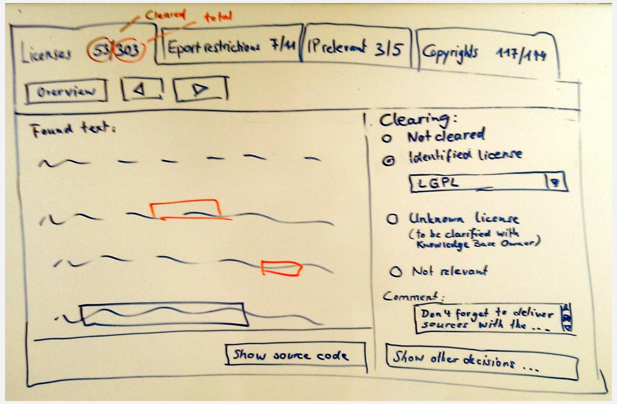
Upload

1. Select existing upload from where to reuse license decisions

Features: Efficient User Interface

Evolution

- Most work intensive part: review and correction
- User interface went over many iterations the past years
- Support for large packages (> 10.000 files, such as Boost, Linux Kernel,…)



Cleared total

Licenses 53/303 | Eport restrictions 7/11 | IP relevant 3/5 | Copyrights 117/144

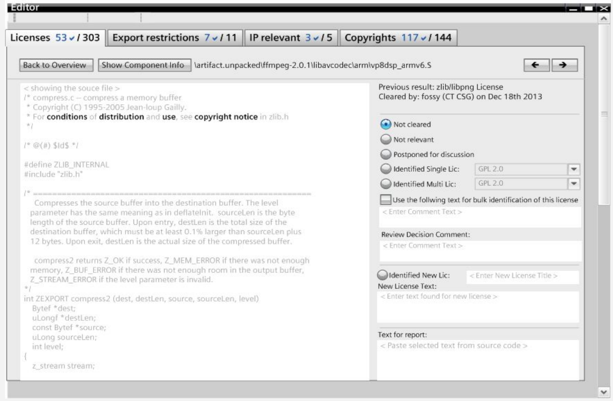
Overview | ◁ | ▷

Found text:

Clearing:
○ Not cleared
◉ Identified license
LGPL ▾
○ Unknown license (to be clarified with Knowledge Base Owner)
○ Not relevant

Comment:
Don't forget to deliver sources with the ...

Show source code | Show other decisions ...



Editor

Licenses 53 ✓ / 303 | Export restrictions 7 ✓ / 11 | IP relevant 3 ✓ / 5 | Copyrights 117 ✓ / 144

Back to Overview | Show Component Info | \artifact.unpacked\ffmpeg-2.0.1\libavcodec\arm\vp8dsp_armv6.S | ← | →

```
< showing the souce file >
/* compress.c -- compress a memory buffer
 * Copyright (C) 1995-2005 Jean-loup Gailly.
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

/* @(#) $Id$ */

#define ZLIB_INTERNAL
#include "zlib.h"

/* ===========================================================================
   Compresses the source buffer into the destination buffer. The level
  parameter has the same meaning as in deflateInit.  sourceLen is the byte
  length of the source buffer. Upon entry, destLen is the total size of the
  destination buffer, which must be at least 0.1% larger than sourceLen plus
  12 bytes. Upon exit, destLen is the actual size of the compressed buffer.

   compress2 returns Z_OK if success, Z_MEM_ERROR if there was not enough
  memory, Z_BUF_ERROR if there was not enough room in the output buffer,
  Z_STREAM_ERROR if the level parameter is invalid.
*/
int ZEXPORT compress2 (dest, destLen, source, sourceLen, level)
   Bytef *dest;
   uLongf *destLen;
   const Bytef *source;
   uLong sourceLen;
   int level;
{
   z_stream stream;
```

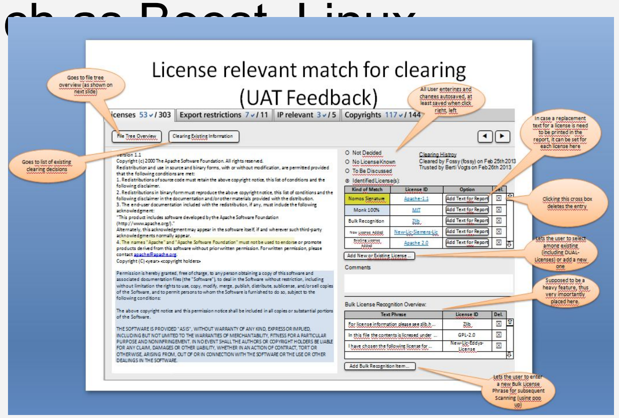
Previous result: zlib/libpng License
Cleared by: fossy (CT CSG) on Dec 18th 2013

● Not cleared
○ Not relevant
○ Postponed for discussion
○ Identified Single Lic: GPL 2.0 ▾
○ Identified Multi Lic: GPL 2.0 ▾
□ Use the follwing text for bulk identification of this license
< Enter Comment Text >

Review Decision Comment:
< Enter Comment Text >

○ Identified New Lic: < Enter New License Title >
New License Text:
< Enter text found for new license >

Text for report:
< Paste selected text from source code >



License relevant match for clearing (UAT Feedback)

icenses 53 ✓ / 303 | Export restrictions 7 ✓ / 11 | IP relevant 3 ✓ / 5 | Copyrights 117 ✓ / 144

File Tree Overview | Clearing Existing Information | ◀ | ▶

version 1.1
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○ Not Decided
○ No License Known
○ To Be Discussed
◉ Identified License(s):

Clearing Histroy
Cleared by Fossy (fossy) on Feb 25th 2013
Trusted by Berti Vogts on Feb 26th 2013

Kind of Match	License ID	Option	Del.
Nomos Signature	Apache-1.1	Add Text for Report	☒
Monk 100%	MIT	Add Text for Report	☒
Bulk Recognition	Zlib	Add Text for Report	☒
New License Added	New-Lic-Siemens-Lic	Add Text for Report	☒
Existing License Added	Apache 2.0	Add Text for Report	☒

Add New or Existing License ...

Comments

Bulk License Recognition Overview:

Text Phrase	License ID	Del.
For license information please see zlib.h ...	Zlib	☒
In this file the contents is licensed under ...	GPL-2.0	☒
I have chosen the following license for ...	New-Lic-Eddys-License	☒

Add Bulk Recognition Item ...

Goes to file tree overview (as shown on next slide)

Goes to list of existing clearing decisions

All User enterings and changes autosaved, at least saved when click right, left

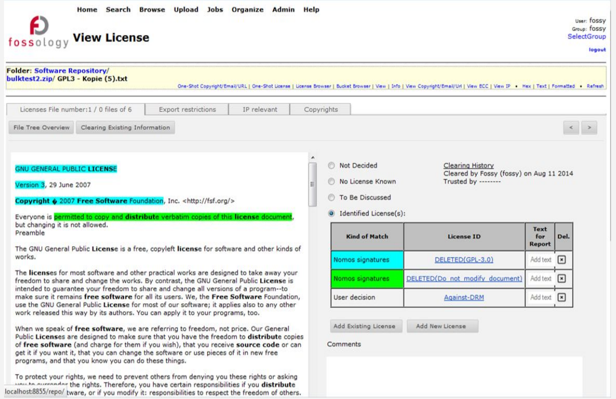
In case a replacement text for a license is need to be printed in the report, it can be set for each license here

Clicking this cross box deletes the entry

Lets the user to select among existing (including DUAL-Licenses) or add a new one

Supposed to be a heavy feature, thus very importantly placed here.

Lets the user to enter a new Bulk License Phrase for subsequent Scanning (using pop up)



fossology | Home | Search | Browse | Upload | Jobs | Organize | Admin | Help

View License

User: fossy
Group: fossy
SelectGroup
logout

Folder: Software Repository/
bulktest2.zip/ GPL3 - Kopie (5).txt

One-Shot Copyright/Email/URL | One-Shot License | License Browser | Bucket Browser | View | Info | View Copyright/Email/Url | View ECC | View IP • Hex | Text | Formatted • Refresh

Licenses File number:1 / 0 files of 6 | Export restrictions | IP relevant | Copyrights

File Tree Overview | Clearing Existing Information | < | >

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Version 3, 29 June 2007

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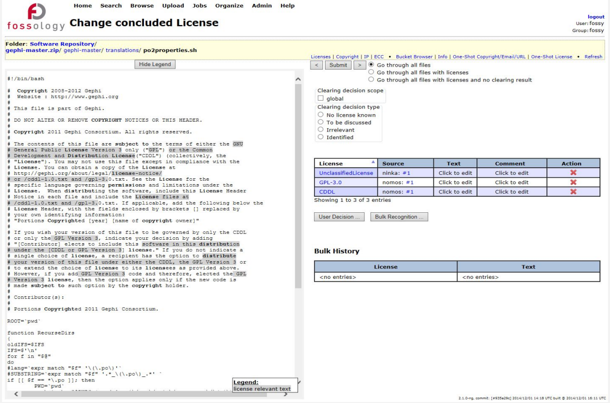
○ Not Decided
○ No License Known
○ To Be Discussed
● Identified License(s):

Clearing History
Cleared by Fossy (fossy) on Aug 11 2014
Trusted by --------

Kind of Match	License ID	Text for Report	Del.
Nomos signatures	DELETED(GPL-3.0)	Add text	☒
Nomos signatures	DELETED(Do_not_modify_document)	Add text	☒
User decision	Against-DRM	Add text	☒

Add Existing License | Add New License

Comments



fossology | Home | Search | Browse | Upload | Jobs | Organize | Admin | Help

Change concluded License

logout
User: fossy
Group: fossy

Folder: Software Repository/
gephi-master.zip/ gephi-master/ translations/ po2properties.sh

Licenses | Copyright | IP | ECC • Bucket Browser | Info | One-Shot Copyright/Email/URL | One-Shot License • Refresh

Hide Legend

```
#!/bin/bash

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# made subject to such option by the copyright holder.
#
# Contributor(s):
#
# Portions Copyrighted 2011 Gephi Consortium.

ROOT=`pwd`

function RecurseDirs
{
oldIFS=$IFS
IFS=$'\n'
for f in "$@"
do
#lang=`expr match "$f" '\(\.po\)'`
#SUBSTRING=`expr match "$f" '.*_\(\.po\)_.*' `
if [[ $f == *\.po ]]; then
        PWD=`pwd`
```

Legend:
license relevant text

< | Submit | >
● Go through all files
○ Go through all files with licenses
○ Go through all files with licenses and no clearing result

Clearing decision scope
□ global

Clearing decision type
○ No license known
○ To be discussed
○ Irrelevant
○ Identified

License	Source	Text	Comment	Action
UnclassifiedLicense	ninka: #1	Click to edit	Click to edit	✖
GPL-3.0	nomos: #1	Click to edit	Click to edit	✖
CDDL	nomos: #1	Click to edit	Click to edit	✖

Showing 1 to 3 of 3 entries

User Decision ... | Bulk Recognition ...

Bulk History

License	Text
<no entries>	<no entries>

2.1.0-ng, commit: [#935a29c] 2014/12/01 14:18 UTC built @ 2014/12/01 16:11 UTC

More Features in FOSSology

- **Workflow integration with command line interfaces**
  - Do uploads and scans from the command line, right from your scripts
  - Or just run individual agents (e.g. for licenses) from command line
  - Schedule activities / integrate them into automated workflows
- **ECC (Export Control and Customs)**
  - Regular expressions searching for export control and customs
- **License data sets import and export**
  - Regular expressions searching for export control and customs
- **Buckets**
  - Define rules for files with license results for collecting them in dedicated lists / buckets

FOSSology Conclusions

Major Takeaways

- **It is open source software**
  - No vendor lock-in, it can be shared among partners
- **It is a server-based Web application**
  - Allowing for multi user operations, allowing for reuse
- **It is many features for efficiency**
  - Reducing the actual efforts for analyzing OSS components

You like it and would like to contribute?

- Put your logo on the FOSSology homepage if you use it. Send email to fossology-steering@fossology.org
- Report issues on Github: https://github.com/fossology/fossology
- Consider contributing to the code base with your extensions

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Internet
https://www.fossology.org

Github
https://github.com/fossology/fossology

Further Links
https://github.com/sw360/sw360portal