The tools of governance
- Program Office and Collaboration between companies

Hiroyuki Fukuchi
Norio Kobota

Open Source Promotion sec.
Technology Alliance dept.
Corporate Technology Strategy div.
Sony Corporation
Part I
Program Office in Sony
About me

• Network / Security Software Engineer
  • WebSocket, HTTP/2, SIP (Session Initiation Protocol), etc.
  • contributed to NodeJS (libuv), lighttpd (webserver), msgpack

• You can find me at
  https://github.com/lighttpd/lighttpd1.4/blob/master/src/mod_wstunnel.c etc.

• Within Sony
  • OpenSourcing RPC framework (https://github.com/linear-rpc)
  • Fostering NMOS (https://github.com/sony/nmos-cpp etc.)

used by Sony IP Live Production System etc.
https://pro.sony/en_LU/technology/ip-live

Norio.Kobota@sony.com
The Cathedral and Bazaar?

By whom are you supported your use of OSS in your company?
Cathedral

Leave everything about OSS to the “Cathedral”

If you are supported by the “Cathedral” every things about OSS
I am sure that you are a lucky guy!
Bazaar

In-house Open Source Software Community
In-house Bazaar

Loose guidelines
Mutual help of the bazaar participants
Each Business Units to take the all responsibilities to use OSS
<table>
<thead>
<tr>
<th>Company</th>
<th>Sony</th>
</tr>
</thead>
<tbody>
<tr>
<td>Presenter</td>
<td>Satoru Ueda</td>
</tr>
<tr>
<td>Date</td>
<td>April 17th, 2018</td>
</tr>
<tr>
<td>Organization</td>
<td>Dedicated organization / Virtual or community type / by each employee / Alone (comment: )</td>
</tr>
<tr>
<td>Number of person in charge</td>
<td>Over 100 / 99–21 / 10–20 / few / one / zero (comment: )</td>
</tr>
<tr>
<td>Points of activities</td>
<td>Internal community for OSS license. Legal, IP department, Public Relation and QA are involved in the activity. Almost all business units participate in community. Abroad development sites are covered by community. Some business units have sub-community inside their units.</td>
</tr>
<tr>
<td>Issues</td>
<td>Skill up of each member: Analogy of medical care model (skillful home doctors and university hospital) Supply chain issues.</td>
</tr>
<tr>
<td>Free writing</td>
<td>Please refer to the next page</td>
</tr>
</tbody>
</table>
Sony’s OSS organization

- About 100 members of OSS License Committee
- OSS strategy board as the community leader (with a few experts)
  - Tim Bird, Frank Rowand and few members (about 10)
- No dedicated organization for OSS

Translated by Fukuchi@Sony
<table>
<thead>
<tr>
<th>Company</th>
<th>Sony</th>
<th>Wiki</th>
<th>OK / NG</th>
</tr>
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<td>Presenter</td>
<td>Hiroyuki Fukuchi</td>
<td>Date</td>
<td>2018/6/5</td>
</tr>
</tbody>
</table>

| Item | • OSS training (9hours, 4times/year)  
+ customized course for each development site (Worldwide) About 700 people  
• OSS community training (Studying OSS community, OSS contribution HowTo)  
• Freshman training  
• E-learning (including non-engineer) About 2,000 people |

| Issue | • Fostering next-gen. leaders  
• Education to non-engineers, suppliers, subcontracting companies  
• Open sourcing |

| Sample | • Trainer lectures on OSS with belief and enthusiasm  
• “Our company encourages employees to use OSS actively”  
• “Many engineers want to build a good world through developing OSS”  
• It is important to understand the background of each OSS license, and intention of developers  
• It is important to understand the time of distributing OSS  
• There are quizzes of use cases where non engineers are involved in OSS distribution. These quizzes make non engineers aware of their responsibility  
• Episodes related with a community experienced by the trainer give good impression to trainees  
• By categorizing with few patterns, Sony’s examples of Open Sourcing are explained.  
• Maintainers undertake trainers, who explain real activities in a community |
OSS Supply Chain Issue

- Software Supplier
- OSS Information
- Inappropriate use of OSS
- Final product vendor

Can not comply OSS license requirement as the distributor of OSS
Part II

Collaboration between companies

Japan work group
About me

Hiroyuki Fukuchi

Open Source Promotion Sec.
Technology Alliance Dept.
Corporate Technology Strategy Div.

In charge of OSS compliance in Sony

A Member of OpenChain and Japan WG

Japanese translation volunteer

Works of Japanese Translation:
OpenChain Specification/Curriculum
SPDX specification 2.1
Handbook of Open Source Compliance
Blog written by Greg Kroah-Hartman
Japan work group

All member meeting

Sub Group activity

- Education
- Making FAQ
- Leaflet to upper stream suppliers
- License info. exchange
- Tooling

Wiki  https://wiki.linuxfoundation.org/openchain/openchain-japanese-working-group

Meeting info.
Sub group activity
Case studies
Japanese translation
Specification/Curriculum/onboarding

GitHub  https://github.com/OpenChain-Project/Onboarding-JWG
https://github.com/OpenChain-Project/Japan-WG-General

ML  openchain-japan-wg@lists.linuxfoundation.org

Slack  openchain-japanwg.slack.com
All member meeting of Japan WG

Venue: Tokyo
2017/Dec: Sony
2018/Feb: Hitachi
2019/Feb: Mitsubishi Electric

Venue: Osaka
2018/Nov: Panasonic

Venue: Kawasaki
2018/Aug: Fujitsu
2018/Oct: Toshiba

Venue: Kobe
2018/Nov: DensoTen

Venue: Nagoya
2018/Jun: Toyota

Venue: Tokyo
2018/Dec: Tuv Sud Japan
2018/Nov: Panasonic

Venue: Kawasaki
2018/Jun: Sony

Venue: Tokyo
2018/Jun: Sony

Venue: Osaka
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Venue: Kawasaki
2018/Aug: Fujitsu
2018/Oct: Toshiba

Venue: Kobe
2019/Apr: DensoTen
Scenes at meetings
ML Subscribers

Japan WG ML registration

Person

Entity

0 8 18 34 75 90 97 108
Meeting Attendees

Graph showing the number of attendees and entities for each meeting, categorized by the date and type of meeting. The x-axis represents the dates from 2017/Dec/27 to 2019/Apr/xx, and the y-axis represents the number of attendees and entities, ranging from 0 to 70. The meetings are labeled as "第1回" through "第8回," with "Ad hoc" meetings also included. The graph indicates a fluctuation in attendee and entity numbers across different meetings and dates.
Lightning talk (sharing case study)

Short presentation (3 minutes within 1 page) by attendees

“No document, only aural presentation” is acceptable

Condition of anonymity is acceptable

Documents are disclosed in Wiki

Wiki https://wiki.linuxfoundation.org/openchain/openchain-japanese-working-group
Overview of OpenChain Specification

**Why do we need policy and process?**

**How can we implement policy and process?**

Specification = Policy, Organization and Process

- Development
  - Software
    - FOSS
    - FOSS version
    - License
    - Copyright
    - Obligation

- BoM Process
  - FOSS Policy
  - FOSS Responsibility

- Review Process
  - Review Report

- Release Process
  - Release
  - Package
  - Disclosure

Customers receive software and license meta information

Source code disclosure, if needed
# OSS Compliance --Organization--

<table>
<thead>
<tr>
<th>Company</th>
<th>Panasonic</th>
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</thead>
<tbody>
<tr>
<td>Presenter</td>
<td>Shinsuke Kato</td>
</tr>
</tbody>
</table>

**Organization**

Dedicated organization / Virtual or community type / by each employee / Alone

(comment: No dedicated organization. Cross-function virtual group handles OSS license. Member is formally assigned by Business Unit.

**Number of person in charge**

Over 100 / 99–21 / **10–20** / few / one / zero

(comment: Now the group concentrates on OSS license, and is starting to handle the technological aspect of OSS.

**Points of activities**

Legal and IP department are involved in the activity. Not only OSS but also software are treated. The group gives advices and final decision is made by Business Unit. The group collects best practices inside Panasonic and share them.

**Issues**

How to involve abroad subsidiary companies. Organizational changes give impacts on OSS activity, it may cause difficulty to maintain activity if a key person cannot continue to participate.

**Budget**

Free writing

Panasonic

- **Company A**
  - Engineer (AAA)
  - Legal (BBB)
  - IP (CCC)

- **Company B**
  - Engineer (DDD)
  - Legal (EEE)
  - IP (FFF)

- **Company C**
  - Engineer (OOO)
  - Legal (PPP)
  - IP (QQQ)

- HQ (office)
  - Engineer (XXX)
  - Legal (YYY)
  - IP (ZZZ)

Translated by Fukuchi@Sony

CC-BY-ND-4.0
<table>
<thead>
<tr>
<th>Company</th>
<th>Hitachi</th>
</tr>
</thead>
<tbody>
<tr>
<td>Presenter</td>
<td>Yuji Nomura</td>
</tr>
<tr>
<td>Date</td>
<td>April 18\textsuperscript{th}, 2018</td>
</tr>
</tbody>
</table>

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<tbody>
<tr>
<td></td>
<td>(comment: OSS solution center promotes OSS appropriate usage inside Hitachi group and receives internal inquiries.)</td>
</tr>
</tbody>
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<tbody>
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<td></td>
<td>(comment: OSS compliance team belongs to OSS solution center.)</td>
</tr>
</tbody>
</table>

| Points of activities      | OSS compliance team makes internal interpretation of OSS license with legal department. Interpretation gives easy explanation (Usage, Obligation, Restriction) to engineers. |

| Issues                   | Increase of OSS usage exceeds over internal interpretation. Interpretation requires personal skills, so that it is difficult to increase OSS compliance team. |

| Free writing             | Activity of interpretation began in 2013. Each business unit individually made its rules, process and infrastructure for OSS. OSS solution center was established in 2015. The core member of OSS compliance moved from advanced unit. OSS solution center is sharing the advanced activity (best practices) inside Hitachi group. Hitachi would like to contribute its OSS process and best practices to OpenChain. |

Translated by Fukuchi@Sony
<table>
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<tr>
<th>Company</th>
<th>Fujitsu group</th>
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<tbody>
<tr>
<td>Presenter</td>
<td>Yuki Machida</td>
</tr>
<tr>
<td>Date</td>
<td>April 18th, 2018</td>
</tr>
</tbody>
</table>

**Organization**
- Dedicated organization / Virtual or community type / by each employee / Alone

**Number of person in charge**
- Over 100 / 99–21 / 10–20 / few / one / zero

**activities**
Now we are trying registration of huge number of FOSS internal distribution (700 packages x 10 generations), so that automation of registration is needed.

Fujitsu group changed OSS license tool from Blackduck “Code Center” to FlexNet “Code Insight” in April 2018.

We are trying some methods using SPDX, rpm, source code analysis tool etc., but it does not work well to take matching between input and “Code Insight” database.

The method using SPDX is the most working, but even many packages cannot be registered.
- e2fsprogs is registered as “Ext2 Filesystems Utilities”
- lack of FOSS data base information
- lack of web page information in SPDX
- version information is not clearly written

We contributed patches to modify the web page URL in SPDX to Yocto project.

Translated by Fukuchi@Sony
<table>
<thead>
<tr>
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</tr>
<tr>
<td>Points of activities</td>
<td>IP department leads activity. The committee for OSS was established. Usage of OSS is increasing, so that we are promoting “OSS literacy” in Toyota.</td>
</tr>
<tr>
<td>Issues</td>
<td>Activity and committee is voluntary. We are trying to establish internal OSS organization over company. Supply Chain.</td>
</tr>
<tr>
<td>Free writing</td>
<td></td>
</tr>
</tbody>
</table>
## OSS Compliance --Organization--

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<th>Anonymous</th>
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<td>Anonymous</td>
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<tr>
<td>Date</td>
<td>2018/04/18</td>
</tr>
</tbody>
</table>

### Organization
- **Dedicated organization** / Virtual or community type / by each employee / Alone

### Number of person in charge
- Over 100 / 99–21 / 10–20 / few / one / zero

### Points of activities
- Make the definition of the [management of the OSS use] on the Quality Management System. By using the definition of the OSS management and compliance, we make a governance.
- For the software of our company, to use Protex and to report the concrete correspondence should be. The dedicated organization maintains the all cases.
- All employee (except a clerk) should take a web-test about the OSS compliance and in-house rules once a year. (The rate is 95%)  

### Issues
- We don’t make a system like as an Open Source Program Office which includes the IP, Legal, Corporate Planning members. The organization is very local. (Each Business Division can decide to use OSS or not.)

### Free writing
- * We would like to make the Open Source Program Office. But, we are not promoting the establishment. it’s difficult. (what is the first activity, who is the first target to join, and so on.)
Why is Japan WG so active?

Japan WG is driven in a community way.

People who understand both OSS and real problems

Place where OpenChain provides Neutrality and Confidence

Leadership gathers people
Thank you!
Resources

- **OpenChain project:**
  - Website: [https://www.openchainproject.org/](https://www.openchainproject.org/)
  - Wiki: [https://wiki.linuxfoundation.org/openchain/start](https://wiki.linuxfoundation.org/openchain/start)
  - GitHub: [https://github.com/OpenChain-Project](https://github.com/OpenChain-Project)
  - ML: openchain@lists.linuxfoundation.org
  - Translations: [https://www.openchainproject.org/translations](https://www.openchainproject.org/translations)

- **OpenChain Japan WG:**
  - ML: openchain-japan-wg@lists.linuxfoundation.org
  - GitHub: [https://github.com/OpenChain-Project/Onboarding-JWG](https://github.com/OpenChain-Project/Onboarding-JWG)
  - [https://github.com/OpenChain-Project/Japan-WG-General](https://github.com/OpenChain-Project/Japan-WG-General)
  - Slack: openchain-japanwg.slack.com

- **SPDX:**
  - Website: [https://spdx.org/](https://spdx.org/)

- **SPDX 2.1 Unofficial Japanese translation**
  - GitHub: [https://github.com/hfukuchi/SPDX_specification/tree/master/chapters](https://github.com/hfukuchi/SPDX_specification/tree/master/chapters)
Appendix
Tips for the lightning talk

Leadership and good atmosphere

We do **NOT** judge “Good” and “Bad”.

In order to **collect important points**, format is pre-defined.

We **disclose the documents on Wiki**.

We **share** each practice as a reference.

Practices give you **good hints**.
Overview of OpenChain Specification

Specification = Policy, Organization and Process

6.1, 6.2 Conformance

Development

Software

FOSS

FOSS version
License
Copyright
Obligation

BoM Process

3.1

Review Report

Release Process

4.1

Release

Conformance

Software Release

BOOM

FOSS

License
Report
Package
disclosure

Contribution Policy

5.1

5.2

5.1 Contribution Process

5.2 Contribution Process

顾客接收软件和许可元信息

Source code disclosure, if needed
## OSS Compliance --Organization--

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### Organization
- Dedicated organization / Virtual or **community** type / by each employee / Alone
  (comment:)

### Number of person in charge
- Over 100 / 99–21 / 10–20 / few / one / zero
  (comment:)

### Points of activities
- Internal community for OSS license.
- Legal, IP department, Public Relation and QA are involved in the activity. Almost all business units participate in community. Abroad development sites are covered by community.
- Some business units have sub-community inside their units.

### Issues
- Skill up of each member: Analogy of medical care model (skillful home doctors and university hospital)
- Supply chain issues.

### Free writing
- Please refer to the next page
<table>
<thead>
<tr>
<th>Company</th>
<th>Hitachi Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Presenter</td>
<td>Ayumu Watanabe</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Organization</th>
<th>Dedicated organization / Virtual or community type / by each employee / Alone (comment: In fact, it is not dedicated to OSS compliance, but “Right Conservation” of IP department has functionality of OSS compliance.</th>
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</tr>
<tr>
<td>Points of activities</td>
<td>There is the process to check OSS information in rule “Other company’s Right Conservation”. OSS usage requires to receive approval from the organization.</td>
</tr>
<tr>
<td>Issues</td>
<td>The approval process is complex for engineers to follow.</td>
</tr>
<tr>
<td>Free writing</td>
<td>The approval process: Business unit submits a request of OSS (OSS list, license list, use case) to the committee. The committee (Legal, IP, Procurement) decides to approve or disapprove. Business unit receives the result of decision. If approval, it starts to take OSS.</td>
</tr>
<tr>
<td>Company</td>
<td>Anonymous</td>
</tr>
<tr>
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<td>-----------</td>
</tr>
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</tr>
<tr>
<td>Points of activities</td>
<td>The persons in charge have a good and high awareness. The final decision is made by Business Unit.</td>
</tr>
<tr>
<td>Issues</td>
<td>There are varies of the knowledge and system from each organization. Need to maintain the organization and activity. Difficult to manage each project because of the used software will be a lot (over 10,000)</td>
</tr>
<tr>
<td>Free writing</td>
<td>Study about making a mechanism to manage the information of the OSS compliance and security. - doing by OSS, need to maintain continuously, need to re-use, these are neccessary. The materials of OpenChain is helpful for me.</td>
</tr>
<tr>
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<tr>
<td>Points of activities</td>
<td>The consciousness is low. I’m struggling alone.</td>
</tr>
<tr>
<td>Issues</td>
<td>How to promote OSS compliance to managements and over company</td>
</tr>
<tr>
<td>Free writing</td>
<td>I would like to improve the awareness of the OSS compliance in the industry.</td>
</tr>
<tr>
<td></td>
<td>* increase members working for the OSS license and compliance</td>
</tr>
<tr>
<td></td>
<td>* need the education of the OSS license and compliance</td>
</tr>
<tr>
<td></td>
<td>- Translation : when proposing on the ML, after that, start to translate.</td>
</tr>
<tr>
<td></td>
<td>- Join in the event : when proposing at the 1st JWG meeting, after that, Hitachi did.</td>
</tr>
<tr>
<td></td>
<td>- propose : join in the OSC KYOTO</td>
</tr>
<tr>
<td></td>
<td>- propose : make MOOCS materials about the education curriculum</td>
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Translated by Kato@Panasonic
### OSS Compliance --Organization--

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</table>
| Points of activities | • Not to use the OSS is the basic policy. (make a rule in the each case)  
• The knowledge is documented. Anyone can access and read. (But, unknown whether it is utilized or not)  
• There is a original tools to check the incorporation of the OSS. |
| Issues | • The OSS compliance is depend on the person or the developer. (not organize as a in-house rule).  
• It’s depend on the case or the project. When not working for the OSS compliance support, the consciousness will be low.)  
• Can not take measures for the OSS compliance as a organization  
• The utilization of the documents or tools is not progressing.  
• Rather than in the past, the consciousness of the developers is low because of the less of the aware-activities. |
| Free writing | [want to know]  
• The trend and the recent situation of the recent OSS compliance  
• The security measures for the embedded software. (E.G. the security patch is applied or not.)  
[Comment]  
• We want the developers to have a good awareness of the OSS compliance by introducing the activities of the OpenChain. And we expect the continuous activities. |