Open source governance and licensing for Tizen 3.0

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Tizen Governance Model

Work in progress

- **The open governance model is not finished**
  - Discussions ongoing
  - Many items not decided fully yet
- **We welcome input, suggestions, criticism, and participation**
- **The model is intended for Tizen 3.0**

Objective

- Model by which the Tizen developer community makes changes to Tizen
- Community members will know what to expect
- Companies know how to get their contributions accepted

Overall guidelines

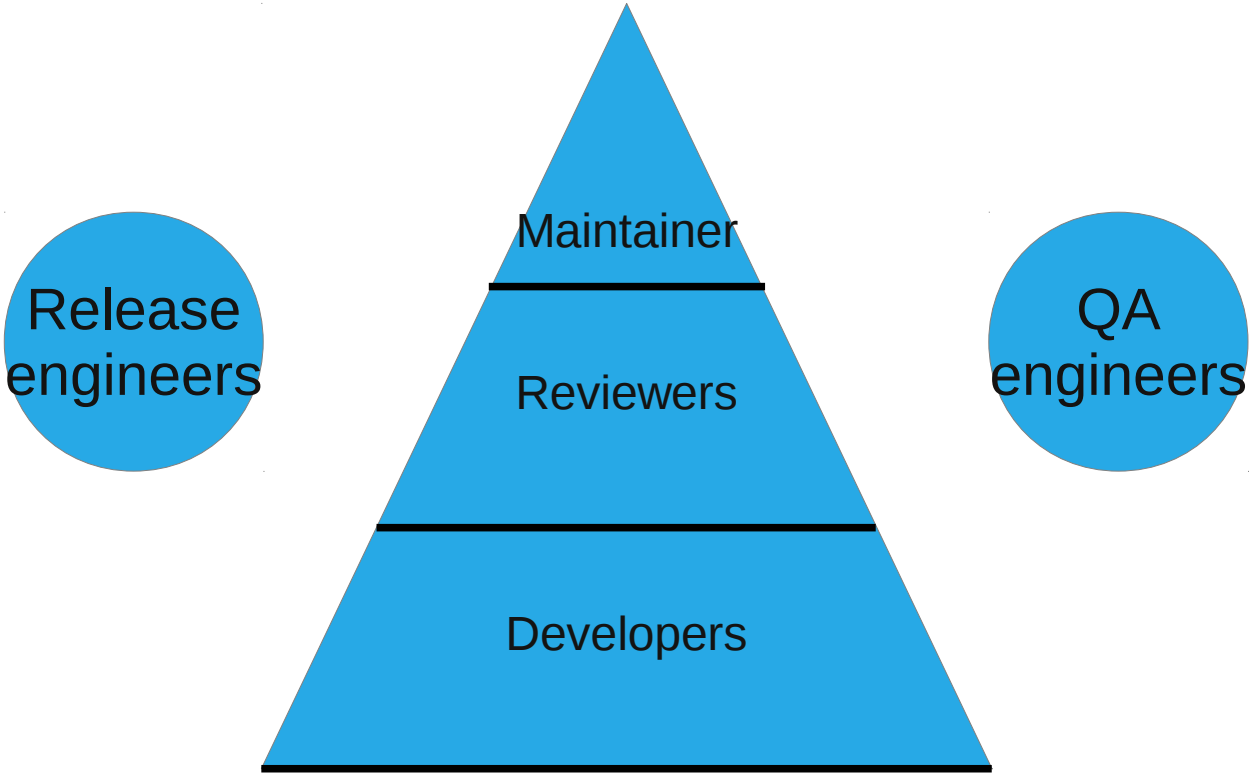
- **All community members must:**
  - Be respectful of one another
  - Refrain from engaging in flame wars or personal attacks
  - Ensure Tizen community rules are followed
  - Follow general direction set by the TSG
- **All community members should:**
  - Contribute to improve Tizen
  - Help out new contributors and users
  - Approach the TSG with important matters

Disrespect of the rules may be sanctioned

Organisation and tooling

- **Roles distributed per package in Tizen**
- **Tools used:**
  - Gerrit, for code and contribution reviews
  - JIRA, for reporting bugs and keeping track of tasks
  - Email and mailing lists

Project roles



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Developers

- **Role: develops code or other contributions**
- **Rights and duties:**
  - Can participate in mailing lists
  - Can report bugs and suggestions
  - Can submit code changes to appropriate branches
  - Can (and are encouraged to) participate in the review process (-1 and +1 reviews)
  - Should participate in relevant discussions in mailing lists
  - Should offer constructive advice to other developers
  - Should behave as a Reviewer in all aspects

Reviewers

- **Role: makes decisions on contributions**
- **Rights and duties:**
  - All of a Developer's rights and duties
  - Can make decisions on code contributions (-2 and +2 reviews)
  - Should pro-actively participate in the review process
  - Should participate in the release process
  - **Must not** approve own contributions
  - **Must** offer constructive comments when rejecting a contribution
  - **Must** ensure contributions are ready for the production tree

Maintainer

- **Role: maintains a package and ensures progress**
- **Rights and duties**
  - All of a Reviewer's rights and duties
  - Can make more invasive changes to a Tizen package (e.g., create branches, rebase, etc.)
  - Can approve own contributions in exceptional cases, such as when no other reviewer was available
  - Declines TSG medium- and long-term goals into short-term ones
  - **Must not** abuse maintenance rights to bypass the review process
  - **Must** ensure all contributions to the maintained package are reviewed
  - **Must** ensure quality of the package
  - **Must** participate in the Tizen quality and release process when required

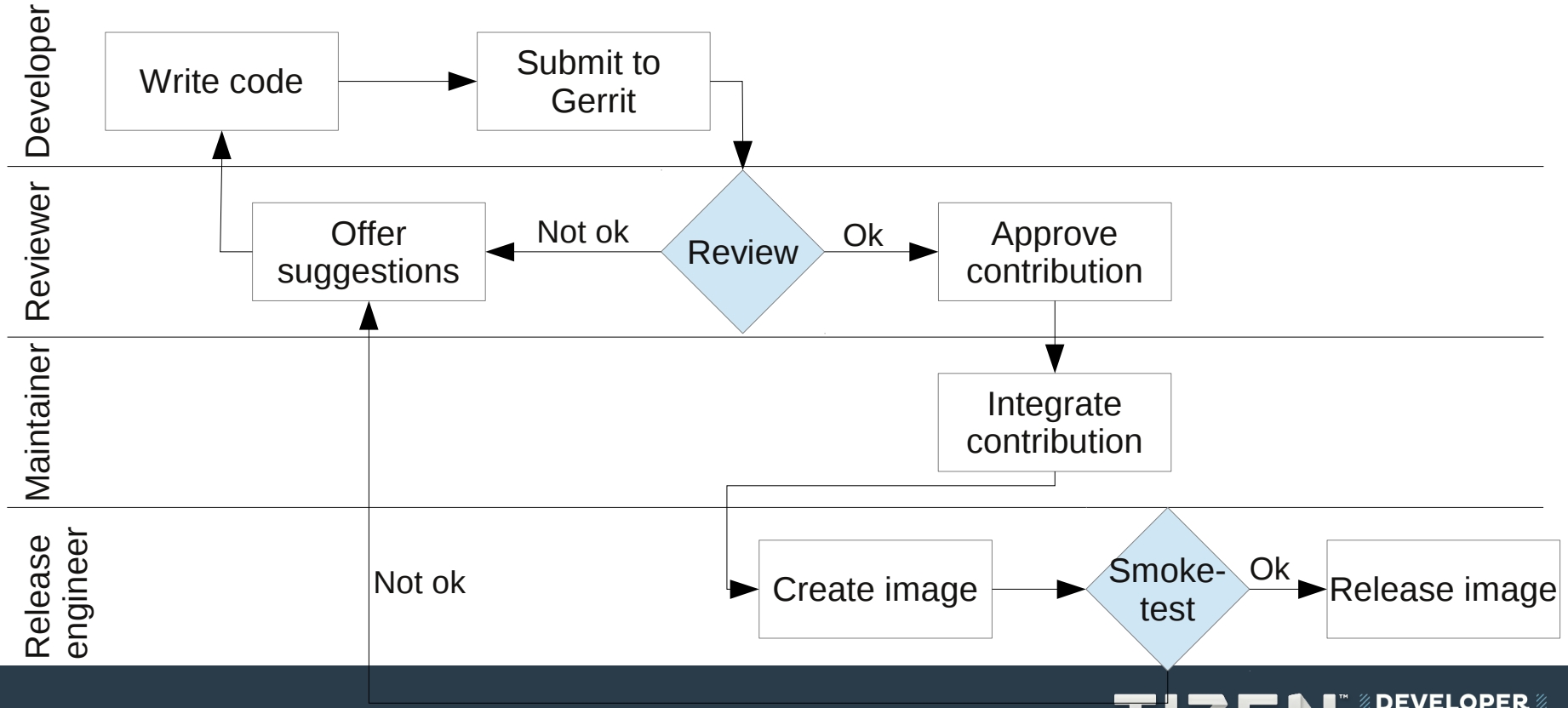
Release engineer

- **Role: create pre-release and release images**
- **Rights and duties:**
  - All of a Developer’s rights and duties
  - Should report bugs and regressions
  - **Must** manage Tizen’s build system
  - **Must** approve or reject submissions to the build system
  - **Must** create Tizen images and smoke-test them
  - **Must** participate in the release process

QA engineer

- **Role: ensure the overall quality of Tizen releases**
- **Rights and duties:**
  - All of a Developer’s rights and duties
  - **Must** test Tizen images
  - **Must** report bugs and regressions
  - **Must** participate in the release verification process

Flow of a contribution



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Decision-making

	Who	Where
Day-to-day decisions (Operational)	Tizen Reviewers & Maintainers	Code review tool Mailing lists
Medium-sized decisions (Tactic)	All, by consensus, meritocratic rules Tie-breaking by TSG	Mailing lists
Long-term decisions (Strategic)	TSG	Scheduled meetings Public minutes

Exception: security vulnerability discussions may be held in an invitation-only group

Tizen Licensing Policy

Tizen Licensing Policy

- New framework components which are not pre-existing open source software are licensed under Apache-2.0
- Modified or original open source components are licensed under the original open source license
- New sdk components which are not pre-existing open source software are licensed under EPL
- Some device adaptation components are contributed in binary form from various chip vendors under its own license

Tizen Git Repository Status

548(235,313)
Framework and API
(framework/* and external/*)

83
SDK
(sdk/*)

56
Kernel and Device Adaptation
(linux/* and adaptation/*)

142
Build Tools
(tools/* and toolchains/*)

Tizen SDK License

What is Tizen SDK License?

- **The license is defined for protecting several proprietary components at the time of Tizen 1.0 Alpha release**

*1.5 **"Tizen Applications"** means all applications that are developed by using the Tizen SDK with or without extensions and can run only on the Tizen Certified Platform.*

2. License Grant.

*2.1 Subject to the terms and conditions of this Agreement, Samsung hereby grants to You a royalty-free, non-exclusive, non-transferable and worldwide license to **use for the sole purpose of the development of Tizen Applications.***

3. Restrictions.

*3.1 You **shall not** (i) modify, reverse engineer or disassemble any portion of the Tizen SDK; (ii) lease, rent, **copy, redistribute or sublicense** the Tizen SDK to third party; …*

- All proprietary components inside IDE have become OSS
- Emulator image still have proprietary components like face engine, image processing engine, vision engine, TTS service and etc which are all licensed under its own license.

Tizen SDK License (1/2)

- **All IDE components including ones which are not pre-existing open source software are licensed under various open source licenses**
  - Exception of two modules
    - Eclipse extended plugin for Native App: manifest editor, API checker, crash worker and etc
    - Native UI Builder: WYSIWYG style native app. UI designer
- **Tizen SDK License clearly states that**
  5. Open Source Software

  …

  such rights in the applicable Open Source Software license shall take precedence over the rights and restrictions granted in this Agreement

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Tizen SDK License (2/2)

- **Tizen maintainers are continuously working**
  - on making it possible to build Tizen SDK on public git
  - so that open source community take over the development of Tizen SDK at any time
- **There are ongoing efforts to loosen restrictions or even to remove the License**
- **You can develop your own application on Tizen SDK and open it in whichever open source license you like**

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- **For example: “French translation of the Work by Original Author” or “Screenplay based on original Work by Original Author”**

Guidelines for Use of Brand Features

- **Tizen Brand Guidelines at https://www.tizen.org/about/tizen-brand-guidelines**

Flora License

What is Flora License?

- **Important Terms**

1. Definitions

> ***"Tizen Certified Platform"*** *shall mean a software platform that complies with the standards set forth in the* ***Tizen Compliance Specification*** *and passes the* ***Tizen Compliance Tests*** *as defined from time to time by the Tizen Technical Steering Group and certified by the Tizen Association or its designated agent.*

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Purpose of Flora License

- **Encouraging Tizen member companies to contribute their patents to Tizen project**
  - Until Tizen open source community will find out non-patented implementation
- **Differentiating the Tizen platform from other platforms very fast**

How to Find Flora-Licensed Components?

- **git clone your interested component(see https://source.tizen.org/documentation/developer-guide/cloning-and-building**
- **Do grep -r floralicense ***
  - will match http://floralicense.org/license URL in boiler plate code
- **For example**

```
$ cd framework/osp/uifw
$ find . \( -name “*.h” –o –name “.cpp” \) –print | wc –l
1845
$ grep –r floralicense * ` find . \( -name “*.h” –o –name “.cpp” \) –print` | wc -l
4
```

- **Tizen maintainers open Flora-licensed components transparently and publicly**
  - Flora licensing never happens behind the scene

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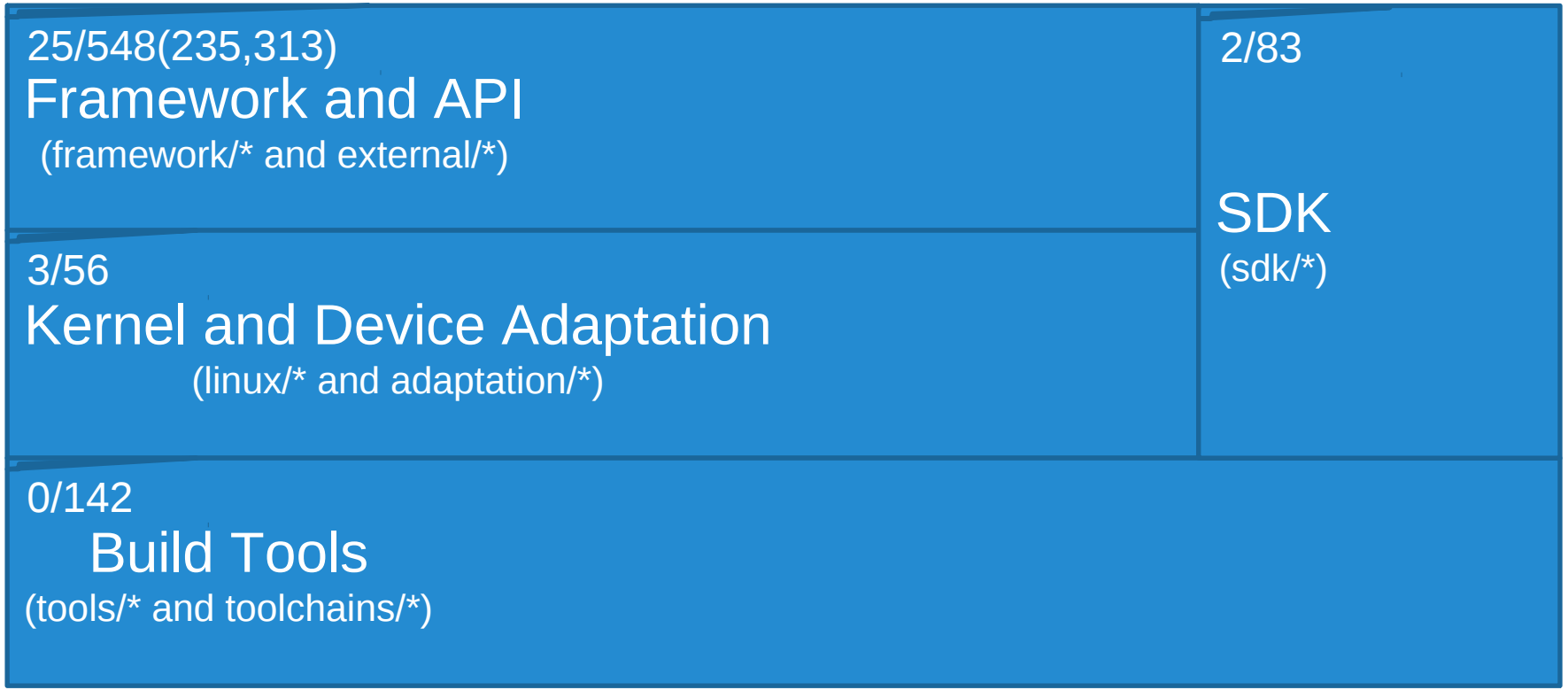
Tizen Git Repository Status Revisited



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Flora Licensing Statistics

- **Real statistics about Flora license**
  - 235 framework gits has 11425 source code files
  - 83 sdk gits has 62515 source code files
  - 1743 source code files among framework and sdk gits are licensed under Flora
  - Around 2.36%(1743 / (11425 + 62515))
- **Tizen maintainers continuously try to reduce Flora-licensed source code files and make them well separated over time**

How Flora-Licensed Components affect Tizen Compliance

- Features implemented by Flora-licensed components are all optional by the definition of Tizen Compliance Specification
- Optional features may not available on some Tizen devices because Tizen device manufacturers may decide not to provide some optional features
- Application developers should describe required optional features inside manifest.xml and Application store(s) will filter applications based on those features

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Conclusions

- **Tizen Licensing Policy**
- **Tizen SDK License**
  - OSS License take precedence over Tizen SDK License
- **Content License**
  - CCL Attribution 3.0 with brand feature exceptions
  - You can make commercial use of the original work
- **Flora License**
  - Flora-licensed components will be open transparently and publicly
  - Tizen maintainers continuously try to reduce Flora-licensed source code files and well separated

Q & A

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