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

- Developers
- Reviewers
- Maintainer
- Release engineers
- QA engineers
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

**Developer**

- Write code
- Submit to Gerrit

**Reviewer**

- Offer suggestions
- Review
- Approve contribution

**Maintainer**

**Release engineer**

- Integrate contribution
- Create image
- Smoke-test
- Release image

Not ok

Ok
## Decision-making

<table>
<thead>
<tr>
<th>Day-to-day decisions (Operational)</th>
<th>Who</th>
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<tr>
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<td>Tizen Reviewers &amp; Maintainers</td>
<td>Code review tool Mailing lists</td>
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<th>Medium-sized decisions (Tactic)</th>
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<td>All, by consensus, meritocratic rules Tie-breaking by TSG</td>
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<th>Long-term decisions (Strategic)</th>
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<td>Scheduled meetings Public minutes</td>
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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

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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
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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  • Copyright notices
  • Original author
  • The title of the work
  • 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
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.

2. Grant of Copyright License.

• Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.


Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work solely as incorporated into a Tizen Certified Platform, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work solely as incorporated into a Tizen Certified Platform to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
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](https://source.tizen.org/documentation/developer-guide/cloning-and-building))
- **Do grep -r floralicense** *
  - will match [http://floralicense.org/license](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
# 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
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