

# Open Governance for Tizen 3.0

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Tizen Developer Summit Korea 2013



# Who are we?

## Thiago Macieira

- Open Source developer for 15 years
- Software Architect at Intel's Open Source Technology Center (OTC) and Tizen Platform Community Manager
- Maintainer of two modules in the Qt Project
- MBA and double degree in Engineering
- Previously, led the "Qt Open Governance" project

## Guy Martin

- 20+ years in software development, open source consulting & community management
- Senior Strategist – Samsung Open Source Group (OSG)
- Developed open source & collaborative communities for Motorola, Sun, and US DoD
- Previously, built Red Hat's strategic open source consulting practice

# Moving development to Tizen.org

- Moving Tizen from 'source-available' to truly open source / collaborative
- The main area of development and contributions is Tizen.org
- For productisation/commercialisation and depending on profile policies and rules, main code tree can be pulled and built anywhere by anyone
  - A small number of profile-specific packages may continue to be developed using the “old” model (shared private first, then moving to Tizen.org)
- Tizen.org is becoming the primary development hub for Tizen

**Tizen.org is now the primary development hub for the Tizen Platform**

# Overall governance 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**

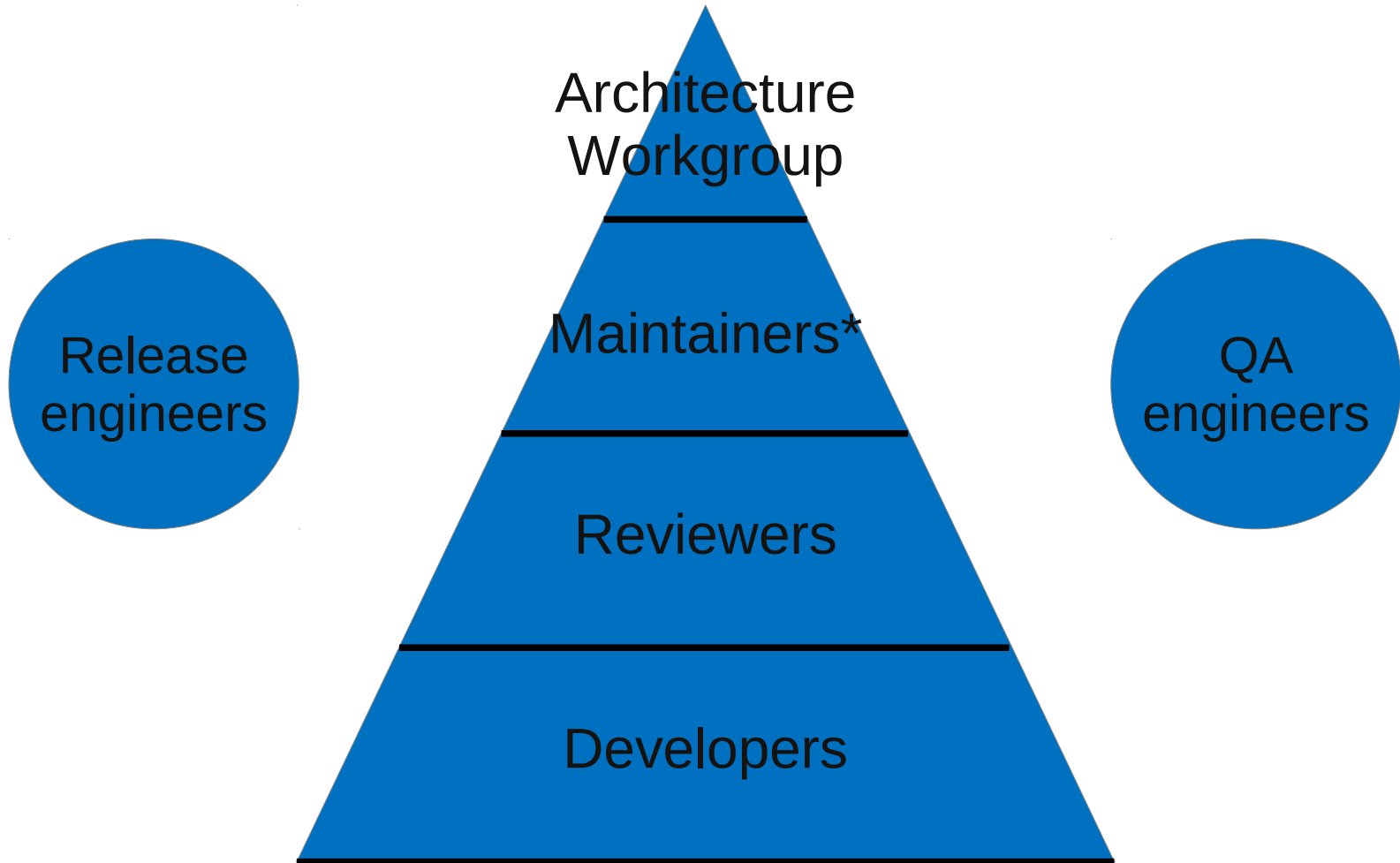
# The principle of “lazy consensus” & silent consent

- Procedure:
  - It is enough to reach consensus in a small group
  - Those who disagree must provide alternative solutions
  - Those who did not participate silently and implicitly give their consent
- Requirements:
  - Public discussion, to the correct audience
  - Active membership that follows discussions
  - Reasonable time for objections
    - “Reasonable” is to be taken on case-by-case basis

# Decision-making and meritocracy

- Responsibilities and rights are awarded to those who merit them
  - Merit gained by contributing to the project
- Decisions made at the lowest level
  - People with merit are allowed to make decisions
  - Lazy consensus applies, so:
    - Decisions are public
    - Other contributors are allowed to object
- Higher levels oversee decisions
  - If necessary, override

# Project roles



# Developer

- Role: develops code or other contributions
- Rights and duties:
  - Can participate in mailing lists
  - Can report bugs and suggestions
  - Can contribute code changes for review to appropriate branches
  - Can (and is 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



# Reviewer

- 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 before approving

# Maintainer & Integrator

- Role: maintains a package and ensures progress
  - Only one maintainer per Git repository
- 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 (example: no other reviewer was available)
  - Interprets 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** release approved contributions into the product buildsystem
  - **Must** ensure quality of the package
  - **Must** participate in the Tizen quality and release process when required

# Other roles

## 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

# Becoming Reviewer, Maintainer, etc.

- Requirements: candidate is **already** acting at that level
- Procedure:
  - Nomination by an existing project member of that level
  - Agreement by another one (all levels) or two (maintainer) other members
  - Motion carries if no objections are raised within three weeks
- Specifically for maintainers:
  - There is a package in need of a Maintainer
  - Candidate is already a reviewer in some part of Tizen

# Architect (member of the TSG Architecture Workgroup)

- Role: oversees and advises in technical matters
  - Decisions are always of the entire Architecture Workgroup
- Rights and duties:
  - All of a Reviewer's rights
    - Some architects may be Maintainers in their own right
  - Should pro-actively offer advice to on-going discussions
  - Interprets long-term Tizen strategy and vision into long- and medium-term technical goals
  - **Must** monitor the overall health and progress of Tizen
  - **Must** participate in Architecture Workgroup decisions (lazy consensus applies)

# The TSG Architecture Workgroup

- Members:
  - Group of senior engineers or architects (experts) with broad view of Tizen
  - Initially, 5 to 8 members
  - Can be expanded later, by self-selection
- Decision-making:
  - Periodic meeting, all architects plus invited experts
  - Decisions posted publicly
  - Lazy consensus: architects who do not object need not speak up

# Sanctions / Revocation of rights

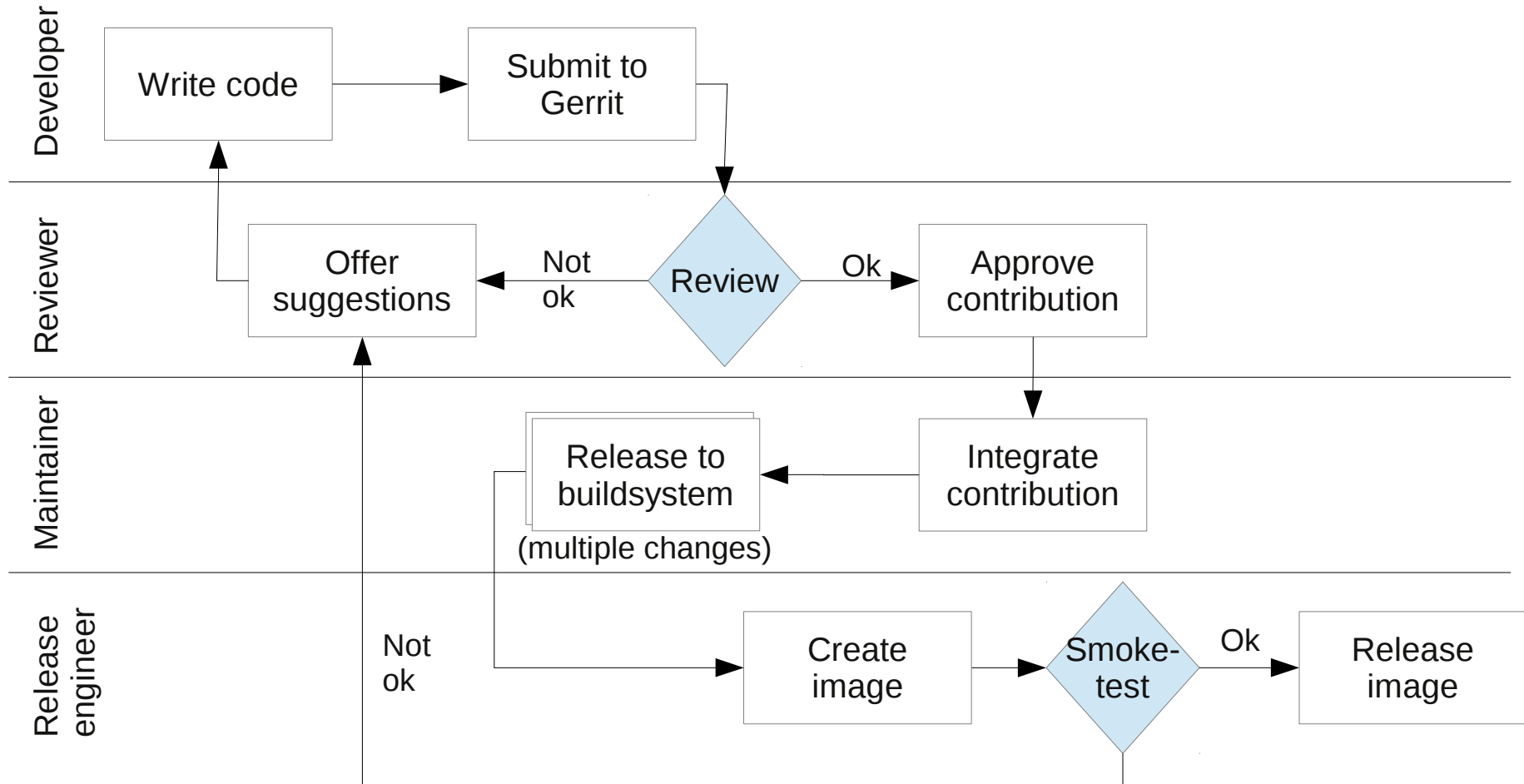
- All contributors, at all levels, **must** obey community rules
- In case of **continued** disrespect, the community may impose sanctions
  - We need to be understanding of the varied cultural backgrounds
  - Community Management is available to help mediating issues
- Cases will be dealt with on a **case-by-case** basis, in a closed Architecture Workgroup & Community Management meeting

# Principles of the Tizen codebase

- Keep code as close to upstream as possible
- Upgrades must be justified
- Goal is to have 1 project run on multiple profiles
  - Same code base but with different build options and enabled features
  - Contributors have to focus on the whole project rather than a specific profile
  - Avoid hardcoding



# Flow of a contribution



# What tools we use

- Tools used:
  - Gerrit, for code and contribution reviews
  - JIRA, for reporting bugs and keeping track of tasks
  - Email and mailing lists, for discussions

# Mailing list for discussion

- Platform development uses one main mailing list:
  - [dev@lists.tizen.org](mailto:dev@lists.tizen.org)
  - All project-wide discussions should be on this list
  - TSG Architecture Workgroup decisions are posted to this list
  - In the future, we may split if traffic becomes too high
- Members and rules:
  - Open to subscription and posting from anyone on the Internet
  - Decisions respect lazy consensus and meritocracy
  - Common-sense and regular “netiquette” apply
    - List moderators will act in case of abuse
  - No confidential material: all discussions are **public**

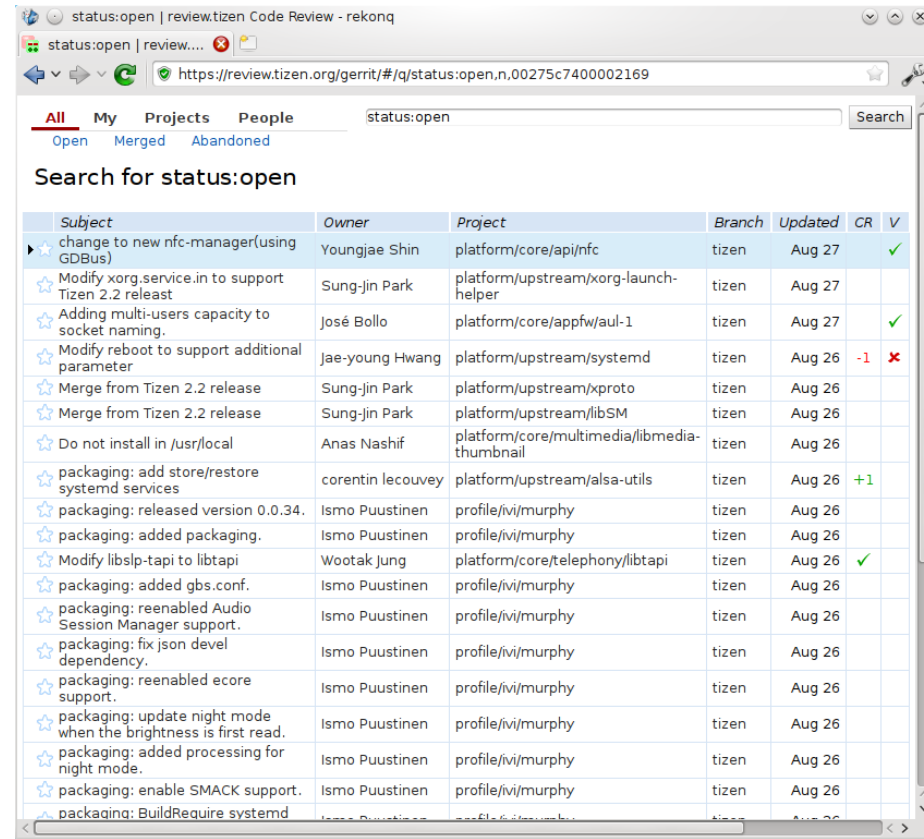
# Bug reports and task tracking (JIRA)

- Manages defects from all public binaries
- Contains the official release criteria

T	Key	Summary	Assignee	Reporter	P	Status	Resolution
	TVI-1675	[3.0] Proxy set by ConnMan is unavailable	zhang zhengguang	yu liyun		New	Unresolved
	TVI-1673	[3.0] Several lco* packages not built/integrated	Ryota Okubi	wu dawei		New	Unresolved
	TVI-1672	[3.0] It takes about 30s to begin rendering data in GhostCluster	Kevron Rees	wu dawei		New	Unresolved
	TVI-1664	[3.0] Integrate openavb in image	Tracy Graydon	wu dawei		New	Unresolved
	TVI-1663	[3.0] Integrate smartdevicelink(SDL) in image	Ossama Othman	wu dawei		Assigned	Unresolved
	TVI-1662	[3.0] Miss SSL certification files: ca-certificates.crt, ca-bundle.crt, ca-bundle.crt	Tracy Graydon	yu liyun		New	Unresolved
	TVI-1661	[3.0][REG] No sound output when paplay an audio	Jaska Uimonen	yu liyun		Closed	Fixed
	TVI-1659	[3.0] Fail to up bluetooth of WP 7260 when first boot to BB	RAVI KUMAR VEERAMALLY	yu liyun		New	Unresolved
	TVI-1658	[3.0][REG] Nothing rendered when launching webapp by wrt-launcher	Rusty Lynch	wu dawei		Released	Fixed
	TVI-1654	[3.0] evolution-data-server not integrated into default image	Tracy Graydon	yu liyun		Closed	Fixed
	TVI-1653	[3.0][REG] Home UI didn't start up in daily build 21030822.11	Tracy Graydon	wu dawei		Closed	Fixed
	TVI-1613	[3.0] It takes long time to up bluetooth when system boot up	Artem Bityutskiy	yu liyun		Closed	Fixed
	TVI-1603	[3.0] Kernel backtrace when tethering connection created	Artem Bityutskiy	yu liyun		New	Unresolved

# Code reviews (Gerrit)

- Day-to-day decisions:
  - Comments, enhancements
  - Approvals
- People:
  - Everyone can create an account
  - Everyone can participate
  - Everyone can offer +1 or -1
  - Reviewers can approve (+2) or permanently reject (-2)
  - **Only** Maintainers can integrate the change



The screenshot shows the Gerrit Code Review interface for the 'status:open' filter. The browser address bar shows the URL: <https://review.tizen.org/gerrit/#/q/status:open,n,00275c7400002169>. The interface includes tabs for 'All', 'My', 'Projects', and 'People', and a search bar. Below the search bar, there is a table of code review entries.

	Subject	Owner	Project	Branch	Updated	CR	V
▶	change to new nfc-manager(using GDBus)	Youngjae Shin	platform/core/api/nfc	tizen	Aug 27		✓
☆	Modify xorg.service.in to support Tizen 2.2 releast	Sung-jin Park	platform/upstream/xorg-launch-helper	tizen	Aug 27		
☆	Adding multi-users capacity to socket naming.	José Bollo	platform/core/appfw/aul-1	tizen	Aug 27		✓
☆	Modify reboot to support additional parameter	Jae-young Hwang	platform/upstream/systemd	tizen	Aug 26	-1	✗
☆	Merge from Tizen 2.2 release	Sung-jin Park	platform/upstream/xproto	tizen	Aug 26		
☆	Merge from Tizen 2.2 release	Sung-jin Park	platform/upstream/libSM	tizen	Aug 26		
☆	Do not install in /usr/local	Anas Nashif	platform/core/multimedia/libmedia-thumbnail	tizen	Aug 26		
☆	packaging: add store/restore systemd services	corentin lecouvey	platform/upstream/alsa-utils	tizen	Aug 26	+1	
☆	packaging: released version 0.0.34.	Ismo Puustinen	profile/ivi/murphy	tizen	Aug 26		
☆	packaging: added packaging.	Ismo Puustinen	profile/ivi/murphy	tizen	Aug 26		
☆	Modify libslp-tapi to libtapi	Wootak Jung	platform/core/telephony/libtapi	tizen	Aug 26		✓
☆	packaging: added gbs.conf.	Ismo Puustinen	profile/ivi/murphy	tizen	Aug 26		
☆	packaging: reenabled Audio Session Manager support.	Ismo Puustinen	profile/ivi/murphy	tizen	Aug 26		
☆	packaging: fix json devel dependency.	Ismo Puustinen	profile/ivi/murphy	tizen	Aug 26		
☆	packaging: reenabled ecore support.	Ismo Puustinen	profile/ivi/murphy	tizen	Aug 26		
☆	packaging: update night mode when the brightness is first read.	Ismo Puustinen	profile/ivi/murphy	tizen	Aug 26		
☆	packaging: added processing for night mode.	Ismo Puustinen	profile/ivi/murphy	tizen	Aug 26		
☆	packaging: enable SMACK support.	Ismo Puustinen	profile/ivi/murphy	tizen	Aug 26		
☆	packaging: BuildRequire systemd	Ismo Puustinen	profile/ivi/murphy	tizen	Aug 26		

# Code contribution approval guidelines

## Technical / Objective rules

- Does this compile?
- Does it introduce a bug?
- Does it do what it is says it does?
- Does it follow the coding guidelines\*?
- Does it follow the Tizen branch guidelines?

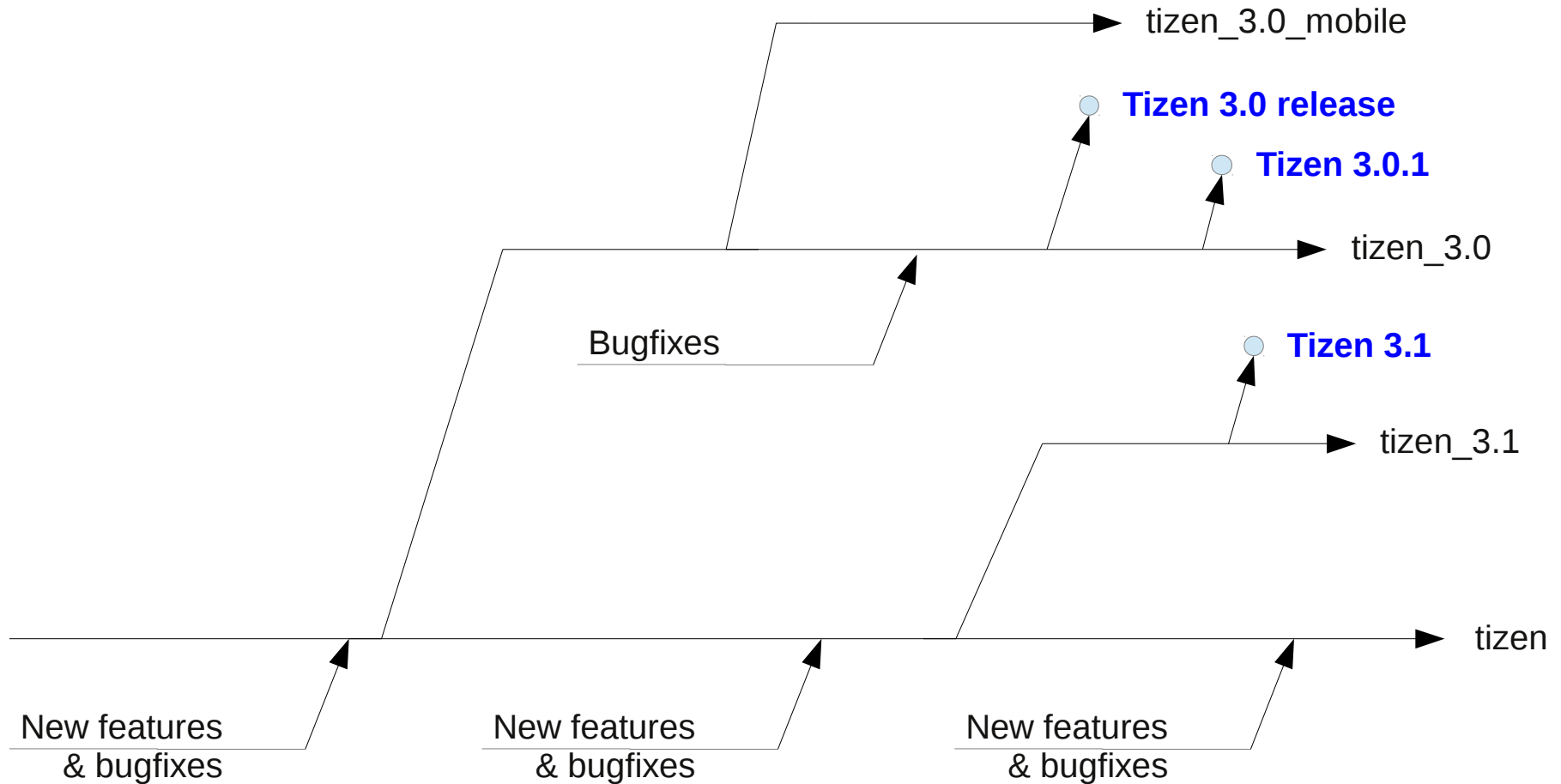
## Subjective rules

- Is this in the direction set forth by TSG, Arch WG, Maintainer?
- Does it introduce risks to stability?
- Is this the best solution?
- Is this the right time?

# Decision-making

Type	Who*	Where
Code contribution Decisions on one package	Reviewers of the package	Code review tool Mailing lists
A few packages Small / low-impact issues	Reviewers and Maintainers of the packages	Mailing lists
A lot of packages Large / big-impact issues	Reviewers, Maintainers and Architects	Mailing Lists TSG Architecture Workgroup meeting
API in the Tizen Compliance	Reviewers, Maintainers and Architects	Mailing Lists TSG Architecture Workgroup meeting

# Branching plan drawing





# Conclusion

- Tizen's Open Governance is live
- Model by which we work with each other and partners
- Suggestions to improve are welcome
- Join [dev@lists.tizen.org](mailto:dev@lists.tizen.org) to participate
  - Only requirement: your will to improve Tizen!
  - Be nice and professional

# Thank You!

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