

MIKE Development Procedures

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MIKE Development Procedures

These sections describes the default MIKE Development procedures and how the branches in git are used. This page contains an overview, for details of the individual procedures, visit the child pages. However, do read the introduction here first.

Child Pages

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Repository owner coordination

Every repository has a owner, usually a development team.

! For developers outside the team of repo owners, do **coordinate with the repo owners** where your contribution should be put, i.e. where to branch out from and merge in to. !

The `README.md` in the root of every repository specifies the repo owner.

Procedures and policies

All repositories have two long-living branches, `main` and `develop`.

- `main` is the production branch, being build every night. This branch is being managed by the SCM team.
- `develop` is the development and maintenance branch. There is currently no automatic build of the `development` -line of branches (work-in-progress). This branch is being managed by the owning development team.

Policies have been set up to enforce proper processes around especially these branches. That includes:

Policies on the `main` branch

- `main` branch is locked. Any change must be through a pull request that must be approved by a `repo admin`, being by default the SCM team.
- Pull requests to the `main` branch must be initiated by the repo owner team.
- Outsiders contributing to a pull request into main will be notified by repo owner team (by mail).
 - The outsiders must test their contribution and report back to the repo owner when testing is completed.

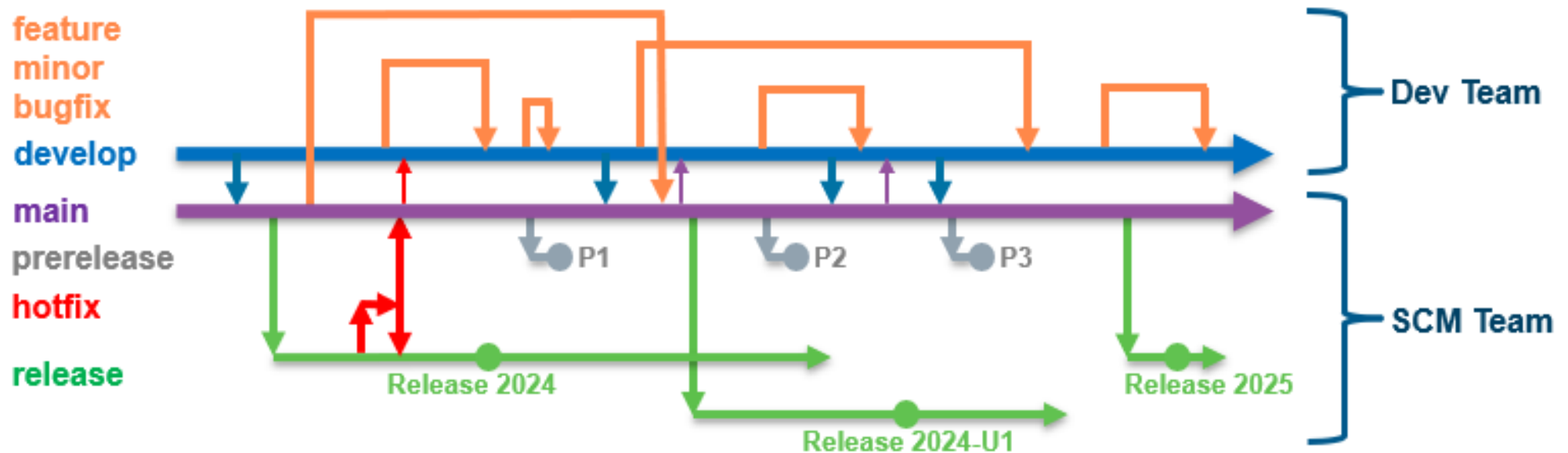
Policies on the `develop` branch

These policies might vary between teams, so this is the general rule:

- `develop` branch is locked for "outsiders", i.e. those not being in the repo owner team. Outsider changes must be through a pull request that must be approved by the repo owners.
- Pull requests to the `develop` can be initiated by anyone.

Branches and workflows overview

The figure and table below gives an overview of the development workflows and the branches involved.



branch name	branch out from	pull request into	
main			Production branch
develop		main	Maintenance branch
release/<name>	main		Release branches pre-release branches
feature/<name>	main develop	main develop	Larger features
maintenance/<name>	main	main	Maintenance spanning multiple git repos
minor/<name>	develop	develop	Maintenance / minor features
bug/<name>	develop	develop	Bug fixing
hotfix/release<name>/<hotfixname>	release/<name>	release/<name>	Hotfix for release branch
hotfix/main/<hotfixname>	main	main	Hotfix for main branch