

# Release Strategy

Unified versioning and release management

# Current Release Strategy

Uses release-please for automated releases

Triggered on every push to main

Creates release PRs automatically

# Current Versioning

Version managed in package.json

Controls, firmware, and explorer have independent versions

Main branch releases use `-beta` suffix

Example: `1.25.0-beta`

# Current Release Process

1. Developers merge PRs to main
2. release-please analyzes commits
3. Opens/updates a release PR
4. Merge release PR to create release
5. Release creation triggers branch workflow
6. Creates `release/X.Y.x` branch

# Current Branch Creation

When a prerelease is published:

- Extracts major.minor from version
- Creates branch `release/X.Y.x`
- Commits with `Release-As: X.Y.0`
- Bumps to stable version on branch

# Current Changelog

Automatically generated from conventional commits

Groups by commit type (feat, fix, etc.)

Links to commits and Pull Requests

Updated with each release PR

# Current Hotfix Workflow

Automated via release-please

Runs on push to release/\*\* branches

Always bumps patch version on release branches

Creates release PRs on release branches

# Current Release Branch Behavior

Separate release-please configuration

Uses always-bump-patch versioning

No manual version control needed

Relies on conventional commits



# Considerations

Independent versioning per workspace

Package.json: 1.25.0-beta

Controls: workspace shared version

Firmware: 0.1.0

Explorer: 1.0.0

# Current Approach Benefits

Automated release process

Conventional commit based

Changelog generation included

Separate workflows for main and release branches

# What Changed?

Version strings are now synced across:

- Package.json (repo root)
- Controls workspace Cargo.toml
- Firmware workspace Cargo.toml
- Explorer workspace Cargo.toml
- Cabinet-controller workspace Cargo.toml

# Release Process

1. Bump all version strings uniformly
2. Update the changelog
3. Commit changes
4. Tag that commit (e.g., `v1.2.0`)
5. Create release branch (e.g., `release/hyphenx-v1.2.x`)
6. Publish release to GitHub

# Hotfix Process

To apply hotfixes to release branches:

1. Cherry-pick the SHA of the commit
2. Bump the patch version
3. Publish release to GitHub

# The makeline-release Tool

Custom tool that handles releases reliably

Just commands wrap each step for convenience

# Bump Version

```
# Update version in all 5 places  
# And update CHANGELOG.md
```

```
just bump-minor-version  # 1.25.0 → 1.26.0  
just bump-major-version  # 1.25.0 → 2.0.0
```

# Create Release Branch

```
# Tag current commit on main  
# Create/switch to release branch
```

```
just create-release-branch          # release/1.26.x
```

```
# Or with a specific suffix
```

```
just create-release-branch beta    # release/1.26.x-beta
```



# Publish Release

```
# Publish the release to GitHub
```

```
just publish-release # Creates hyphenx-v1.26.x
```

# Apply Hotfixes

*# Find commits to backport*

```
git log main --oneline
```

*# Apply hotfix (bumps patch version)*

```
just hotfix <sha>
```

*# Publish updated release*

```
just publish-release
```

# Dry Run Mode

All commands support dry run:

```
just bump-minor-version-dry  
just bump-major-version-dry  
just create-release-branch-dry  
just publish-release-dry
```

# Changelog Management

CHANGELOG.md is automatically updated during version bump

Uses git-cliff for changelog generation

No manual changelog editing required

# CI Integration

Publishing with `release/**` branch triggers:

- Existing CI workflows
- Artifact uploading
- Greengrass component deployment

Everything continues to work!

# Benefits

- Uniform semantic versioning
- Tags on main branch commits
- Release branches from tagged commits
- Hotfix capability
- Automated changelog management

# **Replaces release-please**

This entirely replaces the old release-please workflow

# Why This Approach?

- Unified version for software suite
- Better control over release process
- Simpler hotfix management
- Clearer release history



# Questions?