

# Fox ML Infrastructure [UNICODE] Release Policy

This document defines the versioning strategy, release cadence, and update policies for Fox ML Infrastructure.

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## 1. Versioning Strategy

### 1.1 Semantic Versioning

Fox ML Infrastructure uses **semantic versioning** (SemVer): MAJOR.MINOR.PATCH

- **MAJOR** (v1.0.0 [UNICODE] v2.0.0) [UNICODE] Breaking changes, incompatible API changes
- **MINOR** (v1.0.0 [UNICODE] v1.1.0) [UNICODE] New features, backward-compatible additions
- **PATCH** (v1.0.0 [UNICODE] v1.0.1) [UNICODE] Bug fixes, security patches, backward-compatible fixes

**Examples:** - v1.2.0 [UNICODE] Minor release with new features - v1.2.1 [UNICODE] Patch release with bug fixes - v1.2.2 [UNICODE] Patch release with security fixes - v2.0.0 [UNICODE] Major release with breaking changes

### 1.2 Version Tags

All releases are tagged in the enterprise base repository:  
- Tags follow the format: v1.2.0, v1.2.1, etc.  
- Tags are immutable [UNICODE] once released, a version tag is never modified  
- Release notes accompany each tag

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## 2. Release Cadence

### 2.1 Patch Releases

**Frequency:** Weekly (as needed)

**Includes:** - Bug fixes - Security patches - Documentation updates - Minor configuration improvements

**Backward Compatibility:** Always backward-compatible within the same minor version

**Examples:** v1.2.0 [UNICODE] v1.2.1, v1.2.2, v1.2.3

### 2.2 Minor Releases

**Frequency:** Monthly (approximately)

**Includes:** - New features - Performance improvements - New model types or strategies - Enhanced configuration options - Backward-compatible API additions

**Backward Compatibility:** Always backward-compatible within the same major version

**Examples:** v1.2.0 [UNICODE] v1.3.0, v1.4.0

## 2.3 Major Releases

**Frequency:** As needed (typically 6-12 months)

**Includes:** - Breaking API changes - Architectural changes - Significant refactoring - Removal of deprecated features

**Migration:** Migration guides and documentation are provided

**Examples:** v1.9.0 [UNICODE] v2.0.0

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## 3. Deprecated API Handling

### 3.1 Deprecation Policy

**Deprecation Timeline:** 1. **Announcement** [UNICODE] Feature is marked as deprecated in release notes 2. **Warning Period** [UNICODE] Deprecated features remain functional for at least one minor version 3. **Removal** [UNICODE] Deprecated features are removed in the next major version

**Example:** - v1.2.0 [UNICODE] Feature X is deprecated (announcement) - v1.3.0 [UNICODE] Feature X still works but shows deprecation warnings - v2.0.0 [UNICODE] Feature X is removed

### 3.2 Migration Support

- **Migration guides** [UNICODE] Documentation provided for migrating from deprecated features
  - **Backward compatibility** [UNICODE] Deprecated features remain functional during the warning period
  - **Support** [UNICODE] Support is provided for migration questions during the deprecation period
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## 4. Safe Migration Policy

### 4.1 Upgrade Path

**Recommended Upgrade Strategy:** 1. **Stay current** [UNICODE] Upgrade to the latest patch version within your minor version 2. **Test minor upgrades** [UNICODE] Test minor version upgrades in a development environment 3. **Plan major upgrades** [UNICODE] Major version upgrades require planning and migration

**Example:** - Current: v1.2.5 - Recommended: Upgrade to v1.2.6 (latest patch) - Next: Test v1.3.0 in development, then upgrade production - Future: Plan migration to v2.0.0 when ready

### 4.2 Version Support

**Supported Versions:** - **Full support** [UNICODE] Latest minor version and the previous minor version - **Security patches only** [UNICODE] Versions within two minor versions of latest - **No support** [UNICODE] Versions older than two minor versions

**Example (if latest is v1.5.0):** - v1.5.x [UNICODE] Full support - v1.4.x [UNICODE] Full support - v1.3.x [UNICODE] Security patches only - v1.2.x and older [UNICODE] No support

**Recommendation:** Stay within two minor versions of the latest release for full support.

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## 5. Release Communication

### 5.1 Release Notes

**Each release includes:** - Version number and release date - Summary of changes - New features (minor/major releases) - Bug fixes (patch releases) - Security fixes (if applicable) - Deprecation notices (if applicable) - Migration notes (if applicable)

### 5.2 Enterprise Changelog

**Enterprise customers receive:** - CHANGELOG\_ENTERPRISE.md [UNICODE] Detailed changelog for commercial releases - Release notes in private repository - Email notifications for major releases and security patches (Enterprise/Premium support)

### 5.3 Security Advisories

**Security patches are communicated:** - **Immediately** [UNICODE] Enterprise and Premium support customers are notified immediately - **Public disclosure** [UNICODE] Security issues are disclosed after patches are available - **Patch releases** [UNICODE] Security fixes are released as patch versions

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## 6. Client Repository Updates

### 6.1 Update Process

**Client repositories track version tags from the enterprise base:**

1. **Tag-based tracking** [UNICODE] Client repos track specific version tags (e.g., v1.2.0)
2. **Independent updates** [UNICODE] Each client repo can be updated independently
3. **Version bumping** [UNICODE] Clients upgrade by updating to a new version tag

### 6.2 Update Recommendations

**Recommended Update Schedule:** - **Patch releases** [UNICODE] Update within 1-2 weeks (especially security patches) - **Minor releases** [UNICODE] Update within 1-2 months (test in development first) - **Major releases** [UNICODE] Update when ready (plan migration, test thoroughly)

See **LEGAL/ENTERPRISE\_DELIVERY.md** for details on repository structure and update workflow.

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## 7. Breaking Changes

### 7.1 Major Version Policy

**Breaking changes only occur in major versions:**

- API changes that require code modifications
- Configuration format changes
- Removal of deprecated features
- Architectural changes that affect integration

### 7.2 Migration Support

**For major version upgrades:** - **Migration guides** [UNICODE] Detailed documentation provided  
- **Support** [UNICODE] Enterprise/Premium support includes migration assistance - **Timeline** [UNICODE] Deprecated features remain functional until the next major version

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## 8. Release Quality Assurance

### 8.1 Testing

**All releases undergo:** - Unit testing - Integration testing - Regression testing - Documentation review

### 8.2 Release Criteria

**Releases are made when:** - All tests pass - Documentation is updated - Release notes are prepared - Security review is completed (for security patches)

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## 9. Emergency Patches

### 9.1 Critical Security Issues

**For critical security issues:** - **Immediate patch** [UNICODE] Patch is released as soon as possible - **Notification** [UNICODE] Enterprise/Premium customers are notified immediately - **Documentation** [UNICODE] Security advisory is published

### 9.2 Critical Bug Fixes

**For critical bugs:** - **Priority handling** [UNICODE] Enterprise/Premium support customers receive priority - **Patch release** [UNICODE] Patch is released as soon as possible - **Communication** [UNICODE] Affected customers are notified

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## 10. Summary

**Key Release Principles:**

1. **Semantic versioning** [UNICODE] Clear version numbering (MAJOR.MINOR.PATCH)

2. **Regular cadence** [UNICODE] Patch releases weekly, minor releases monthly
3. **Backward compatibility** [UNICODE] Breaking changes only in major versions
4. **Deprecation policy** [UNICODE] Clear timeline for deprecated features
5. **Safe migration** [UNICODE] Migration guides and support for upgrades
6. **Version support** [UNICODE] Support for current and previous minor versions
7. **Security priority** [UNICODE] Immediate patches and notifications for security issues

**This policy ensures predictable, safe, and well-communicated releases for all Fox ML Infrastructure customers.**

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## Contact

For questions about releases or upgrade planning:

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Subject: *Release Policy Inquiry* [UNICODE] Fox ML Infrastructure

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## Related Documents

- [LEGAL/ENTERPRISE\\_DELIVERY.md](#) [UNICODE] Repository structure and update workflow
- [CHANGELOG\\_ENTERPRISE.md](#) [UNICODE] Detailed changelog for commercial releases
- [LEGAL/SUPPORT\\_POLICY.md](#) [UNICODE] Support tiers and response times
- [LEGAL/SERVICE\\_LEVEL AGREEMENT.md](#) [UNICODE] SLA terms for Enterprise support