# Open XAL Versioning

## Introduction

This document establishes a versioning and release policy for the Open XAL project as well as the repository layout.

## Release Numbering

Feature releases will be labeled using the *major.minor* numbering convention such as version 2.1. The major number increments when the new API is no longer compatible with the previous version's API. The minor number increments when a new feature is added, removed or modified. The first official release will begin with version 1.0.

Patch releases will be labeled using the *major.minor.patch* convention such as release 2.12.6. The major and minor numbers correspond to the feature release code. The patch number increments whenever a bug is addressed.

| Release Number | When to Increment |
|---|---|
| Major | Referencing APIs break or major structural changes |
| Minor | New features that don't break referencing APIs |
| Patch | Bug fixes for existing features |

## Version Control

The Open XAL project will use Git for source code version control. All code and resources committed to the Open XAL project must comply with copyright laws and be consistent with the terms of our open source BSD license.

The root Open XAL root will be composed of *core, sites* and *scratch*. The present *trunk* and *xalite* branches will be frozen and archived when the new repository becomes established with functional code.

The *core* directory will contain the base XAL code common to all participating sites. All source code committed to the core should be free of build warnings and errors. The head branch will contain the source code for current development. The *release* branches will be named in the form, *major.minor.patch* corresponding to each feature/ patch version. Active development for a feature release continues in the latest patch

branch. When a feature release of core is ready to be released after testing and validation, the code will be frozen as *major.minor.patch*. Future changes must be made on a new patch branch.

The *sites* directory will consist of one subdirectory for each site. Each such site directory will contain site specific code to be maintained by developers at the corresponding site.

The *scratch* directory will contain early development code to be shared among developers at several sites for testing and consideration. Each such project should have its own subdirectory under scratch and the directory should be removed when it is no longer needed. The scratch directory should not be considered the permanent home for any project, and the repository administrator has the option to remove such projects when it is determined that development is no longer active.
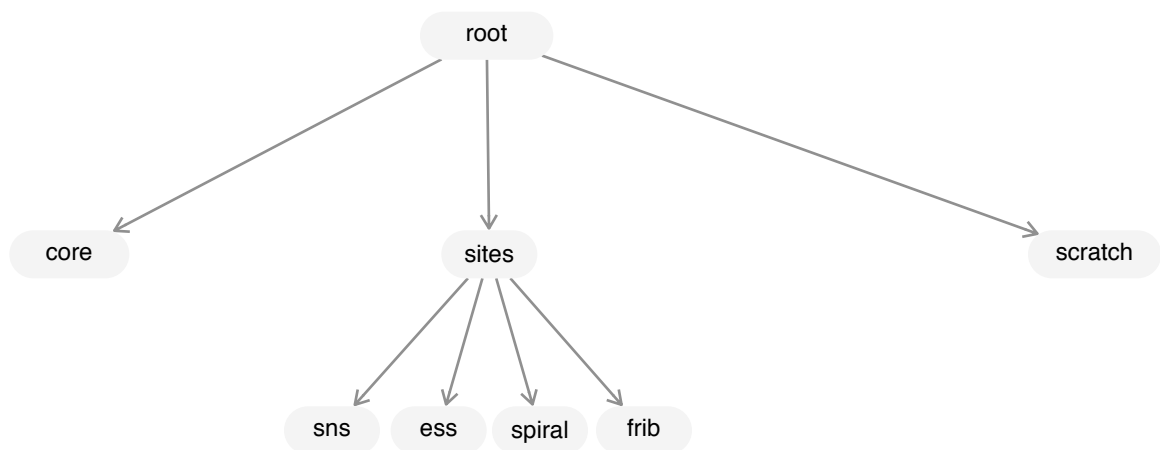


**Figure 1:** Diagram of the repository layout with notional releases.

# Document Revision History

This table describes the changes to this Open XAL Versioning document.

| Date | Notes |
|---|---|
| June 4, 2010 | Draft proposal that describes the Open XAL versioning system. |
| October 21, 2010 | Update the version control system to be Git instead of Subversion. This change also results in changes to the directory structure since Subversion stores branches in the main directory tree and Git does not. |