

What's New in Subversion

Subversion 1.6 and Beyond

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About Me

- Engineer on CollabNet's Version Control team
- Subversion developer since early 2001
- Primary ViewVC maintainer
- Co-author of *Version Control With Subversion*
- Rock star wannabe



Why We're Here

- Subversion 1.6 feature overview
 - Conscious effort to get back to shorter release cycles
 - Target date: December 2008
- Looking ahead: features-in-planning

Subversion 1.6*

- Tree conflict handling (phase I)
 - Detection, signaling, and commit blocking
 - Currently only for files, and with no automatic resolution
- Externals definitions improvements
 - Single-file targets
 - Shell-like quoting/escaping syntax
- Password/passphrase caching improvements
 - Interactive prompt before storing passwords to disk in plaintext
 - Gnome keyring and KDE kwallet support
 - SSL cert passphrases now cached like passwords

Subversion 1.6 (cont.)*

- Relative URL support for the command-line
- Repository storage improvements
 - Representation sharing for storage back ends
 - Caching improvements for FSFS back end
 - memcached
 - cached fulltexts
 - Forward-delta storage for Berkeley DB back end
- New ctypes-based Python bindings
- Logging for svnserve

...And Beyond

- Working copy administration library rewrite
 - Performance
 - Resilience
 - cross-node-type changes
 - client-side atomicity in rename commits
 - operational recoverability
 - Disk-space reduction
 - Developer sanity
 - cleaner APIs
 - easier to write new features
- Custom diff/patch support
- Sparse directories exclusion
- HTTP protocol re-engineering
 - Performance improvements
 - Built-in support for browsing old revisions

That Asterisk, Explained

This presentation contains speculative remarks about the presence/absence of certain features expected to be released in Subversion 1.6 or future releases. Some of them are complete as of this writing; some are not. Some might *actually* be released in Subversion 1.6; some might not.

Need to ensure the timely release of a given feature? Didn't see something you were hoping for?

Come join the development process!

For More Information

- Development discussions on *dev@subversion.tigris.org*
- Real-time discussion in #svn-dev on Freenode IRC
- Additional information at <http://subversion.open.collab.net/>