

What's New in Subversion 1.6

Hyrum Wright ♦ SCALE ♦ February 20, 2009

About Me

- Ph.D. student at the University of Texas at Austin
- Subversion developer since 2006
- Release Manager for 1.5 and 1.6 series
- Member of the Subversion Corporation board
- Subversion contractor and consultant

Why We're Here

- Subversion 1.6 feature overview
 - Conscious effort to get back to a shorter release cycle
 - 1.6 currently branched and soaking; estimated release late-March 2009
- Looking ahead: features-in-planning

Subversion 1.6 - Client

- 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

Subversion 1.6 - Client

- Password/passphrase caching
 - Interactive prompt before storing passwords to disk in plaintext
 - Gnome keyring and KDE kwallet support
 - SSL cert passphrases now cached like passwords
- Relative URL support for the command-line

Subversion 1.6 - Server

- Repository storage improvements
 - Representation sharing for storage backends
 - Caching improvements for FSFS backend
 - memcached
 - cached fulltexts
 - Forward-delta storage for Berkeley DB backend
 - FSFS packing storage improvements
- Logging for svnserve

Subversion 1.6 - Developers

- New ctypes-based Python bindings
- Foundation work for WC-NG
- Sundry new APIs (but not as many as 1.5!)
- Other bindings improvements, updates

Beyond Subversion 1.6

- Working copy administration library rewrite
 - Performance
 - Scalability for large working copies
 - Resilience
 - Client-side rename atomicity
 - Operational recoverability
 - Disk-space reduction
 - Developer Sanity
 - Cleaner APIs
 - Easier to write new features

Beyond Subversion 1.6

- Custom diff/patch support
- Sparse directories exclusion
- HTTP protocol re-engineering
 - Performance improvements
 - Built-in support for browsing old revisions

Disclaimer

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; some are not. Some might *actually* be released in Subversion 1.6; some might not. It's not final, until it's final.

A Plea

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
- Project website: <http://subversion.tigris.org/>
- Additional information: <http://subversion.open.collab.net>