



# Curl based HTTP/WebDAV UCP

How we deleted lots of code

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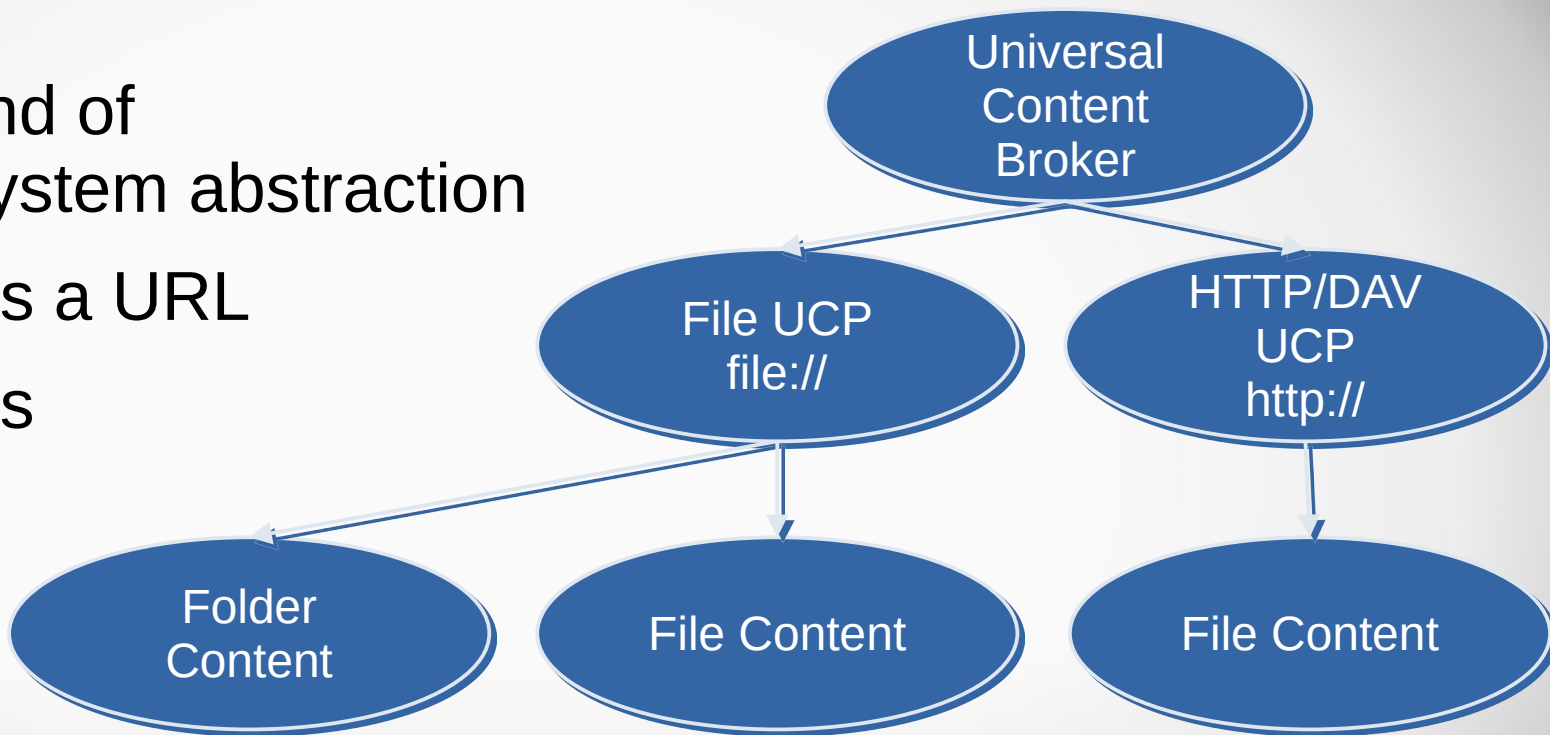
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- What's the problem
- How did we solve it
- Results so far

# What Is a UCP?



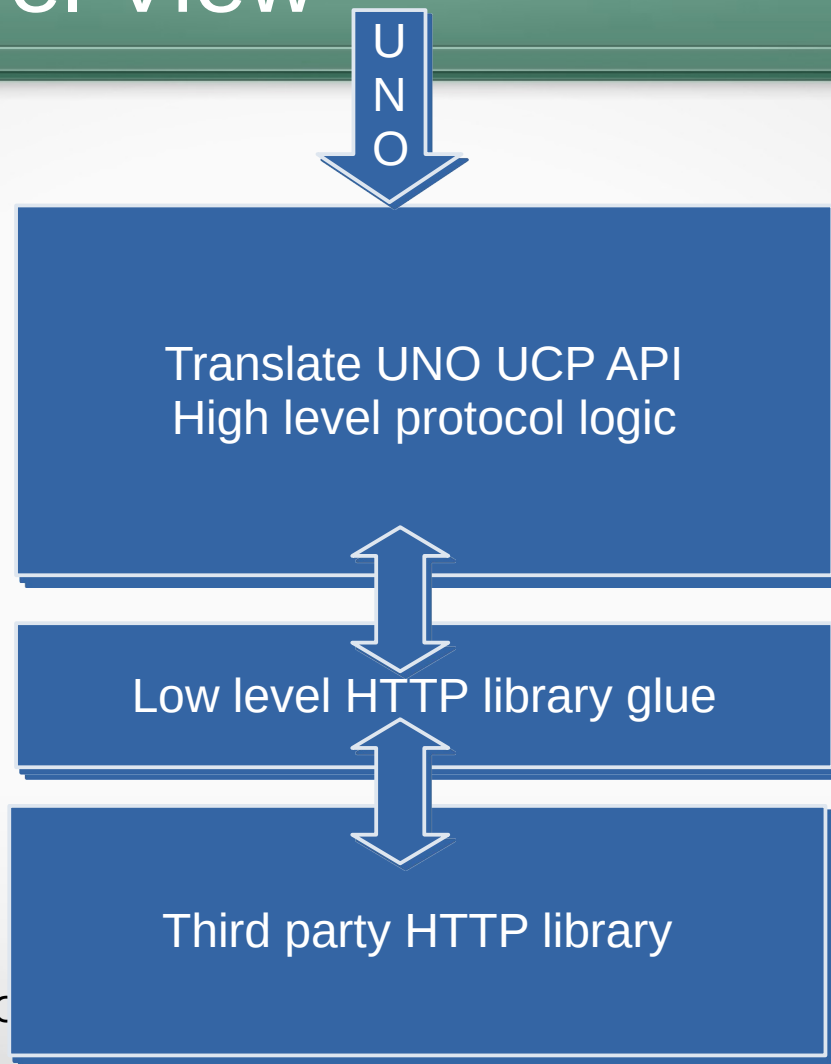
- UCB is a kind of virtual file system abstraction
- Everything is a URL
- Everything is very abstract



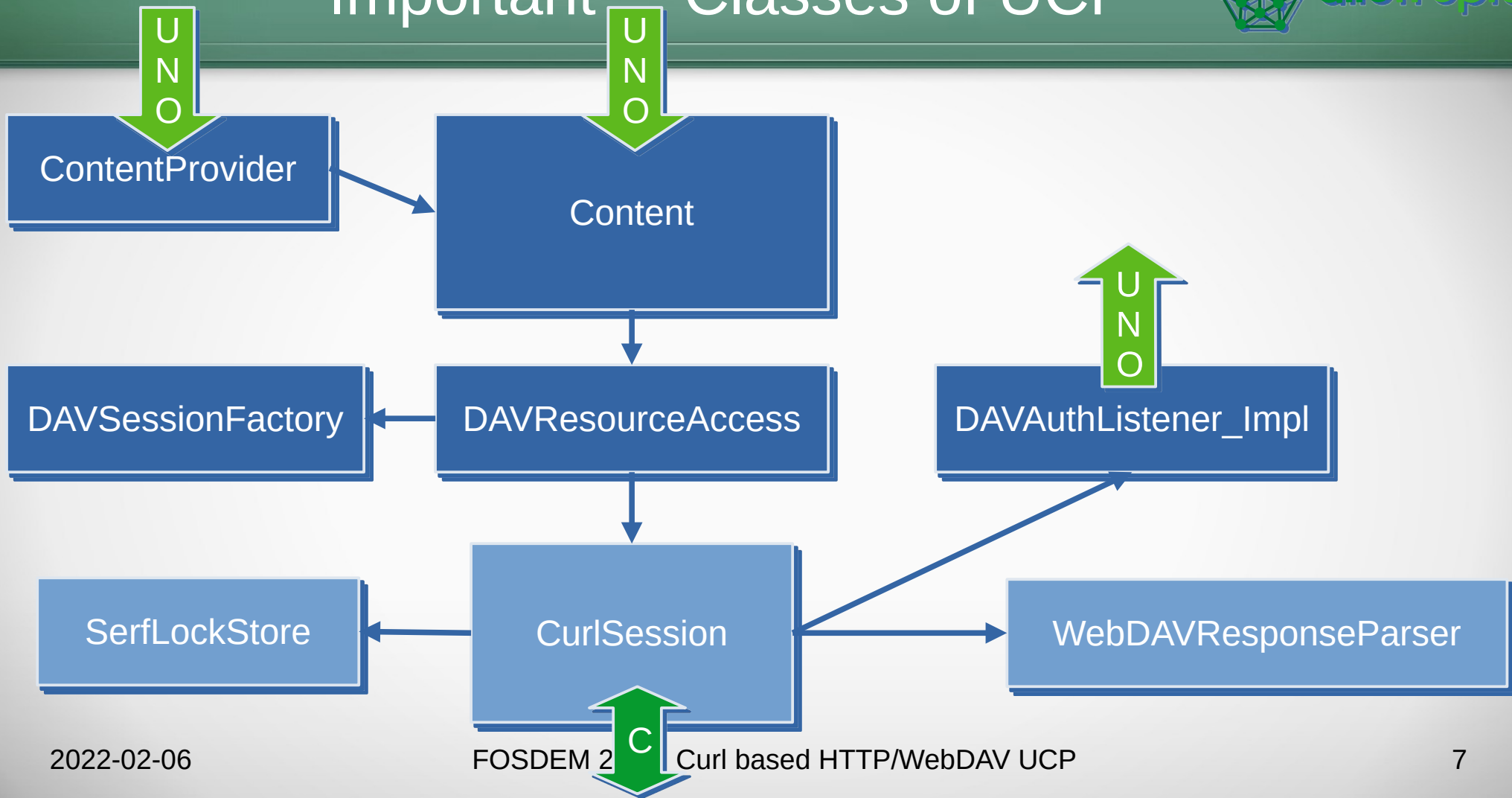
- Neon based HTTP/WebDAV UCP
  - Cannot be shipped on Apple App Store
  - Requires OpenSSL (or GnuTLS)
- Apache Serf based HTTP/WebDAV UCP
  - Requires OpenSSL
  - Requires 3 additional external libraries, plus its own build tool

- **Curl** based HTTP/WebDAV UCP
  - libcurl is already shipped for the FTP UCP and CMIS UCP
  - Can use native SChannel (Win32), Secure Transport (Apple) or NSS
    - use OS UI to manage CA trust
  - Can be shipped on Apple App Store
- **Tender** by The Document Foundation

# UCP High Level View



# Important Classes of UCP



- Copy upper-level part of Serf UCP
- Fix loplugin warnings
- Add new files for low-level part with curl
- Cherry-pick changes since the fork from the Neon UCP
  - ~450 commits to webdav-neon → ~85 cherry-picks
  - Need to check license statements
  - Sometimes conflict with changes made in Serf UCP
  - Sometimes redoing the change was faster
- Don't implement the dialog that allows the user to accept invalid certs



- Apache httpd with mod\_dav
- NextCloud
  - PUT with chunked encoding?
    - 201 Created, size will be 0
- SharePoint
  - client requests chunked encoding?
    - Reply 200 OK, error message in body that's a different mime type than requested
  - May reply 200 OK or 404 NOT FOUND to same URL
  - Dead properties? They must have died laughing

- Shipping in LO 7.3
- 17700 loc + 4 bundled external libraries deleted on master
- A few bugs
- Some claim it's faster (don't ask me why) [tdf#42742](#)
- Some servers hate curl [tdf#146460](#)

Thanks to TDF for sponsoring this!  
Thanks for your attention

