# UCSD Library DAMS Streaming

Open Repositories 2013

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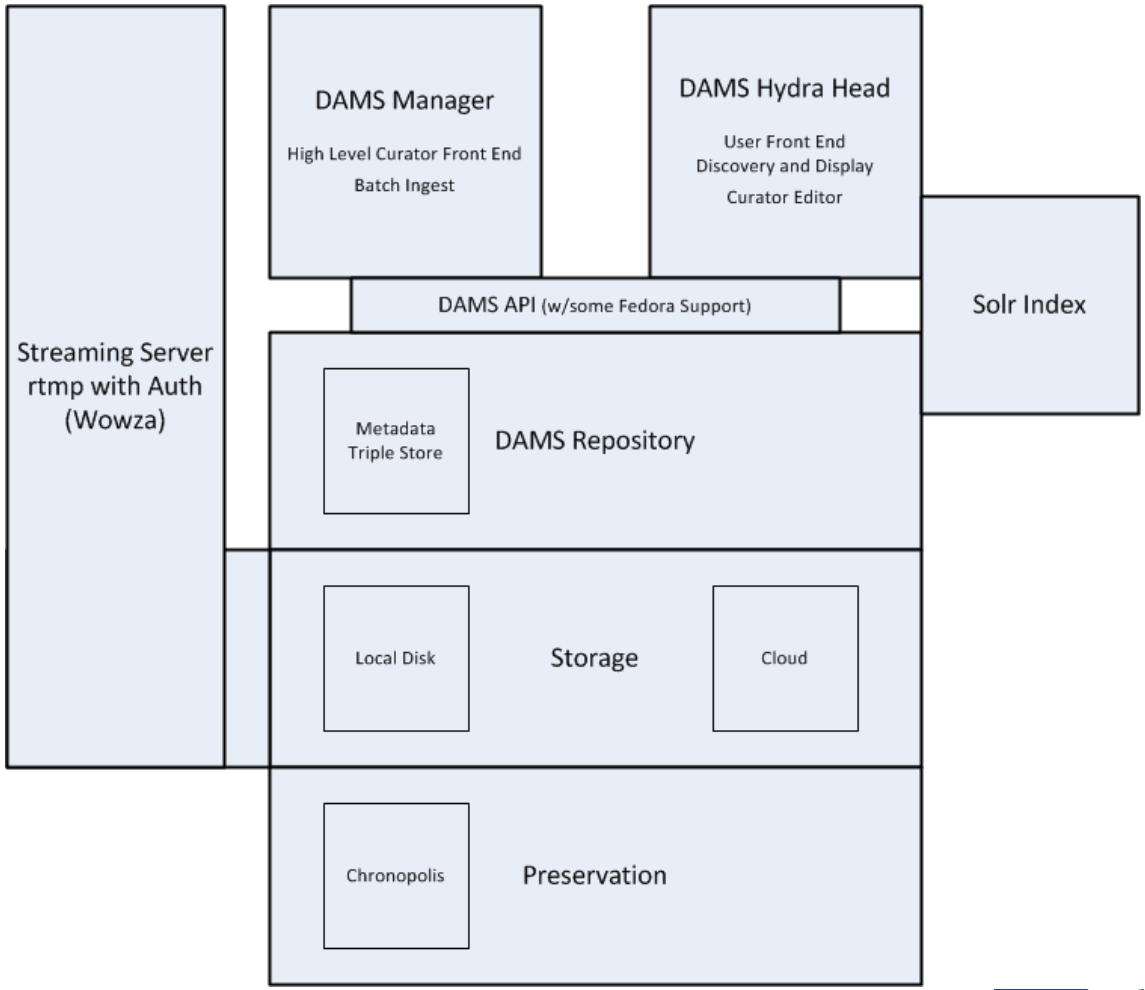
# DAMS Architecture

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# Problem: Streaming Server is Enumerable

- Someone guessing, or enumerating, all the ARKs can get to protected objects
  - jwplayer("myElement").setup({ file: "rtmp://example.com/application/mp4:bb12345678x.mp4" });
- Use encryption to protect the object's stream
  - jwplayer("myElement").setup({ file: "rtmp://example.com/application/mp4:asdf12431aweta34awerawfa3wrawe4f" });

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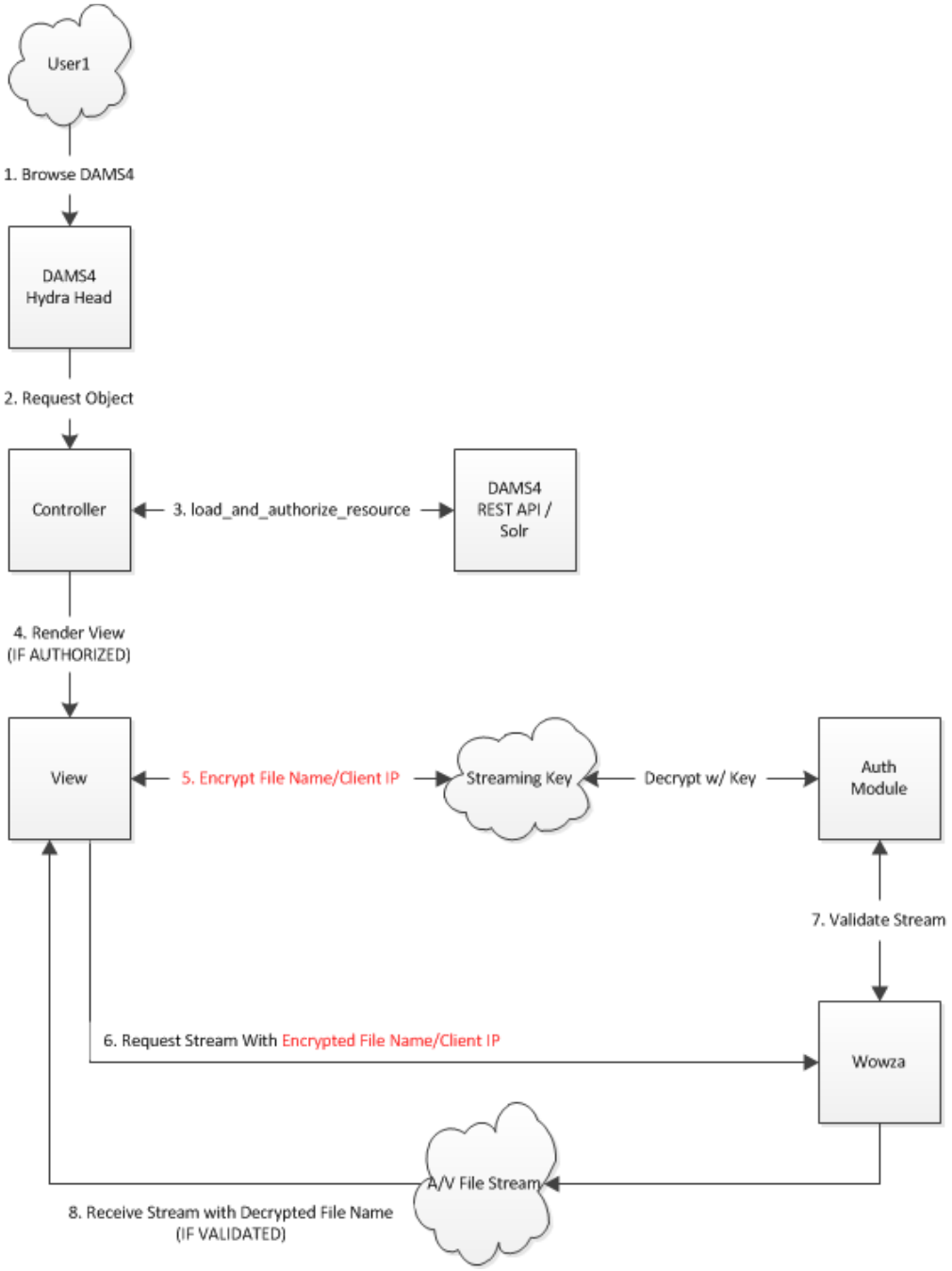
User1
1. Browse DAMS4
DAMS4
Hydra Head
2. Request Object
Controller
3. load_and_authorize_resource
DAMS4
REST API /
Solr
4. Render View
(IF AUTHORIZED)
View
5. Encrypt File Name/Client IP
Streaming Key
Decrypt w/ Key
Auth
Module
7. Validate Stream
6. Request Stream With Encrypted File Name/Client IP
Wowza
A/V File Stream
8. Receive Stream with Decrypted File Name
(IF VALIDATED)

# Links

- DAMS4 Data Model
  - https://libraries.ucsd.edu/blogs/dams/new-version-of-dams-data-model/
  - https://libraries.ucsd.edu/blogs/dams/about-our-data-model/
  - https://github.com/ucsdlib
- DAMS4 Hydra Head
  - https://github.com/ucsdlib/damspas

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