

UC Davis SSO

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Grand Unified SSO Server

- CAS server implements three protocols
 - CAS Protocol
 - OAuth/OIDC
 - SAML 2.0
- SSO implemented with TGC (aka CAS protocol)
 - OAuth/SAML will redirect to CAS protocol to establish SSO
 - CAS Logout destroys any tokens created in that session

OAuth/OIDC

- New OAuth/OIDC features
 - Multiple redirect URLs
 - Localhost can be used
 - OAuth Access Tokens In JWT format
 - OIDC custom UCD Profile
 - More OIDC protocol supported
 - Proof Key Exchange
 - Tokens only valid for length of SSO Session
 - Logout will destroy tokens

SAML 2.0

- Support migrating from Shibboleth to CAS
 - CAS receives and handles SAML requests directly
 - Federated integrations using MDQ
- On prem and manual integrations move first
- Move services to OAuth if preferred by vendor
- InCommon/UC Trust Federation
 - New integrations still need to be done in Shibboleth
 - Automatically migrated when switch made to InCommon
- Shibboleth will be retired

Benefits

- Single authority for SSO sessions
- SAML logins are faster
- Improved SLO support
- Improved integration process
- A single domain can implement each protocol
 - You can figure all three protocols in your service
 - Parts of your service could be protected by different protocols

CAS Management

- One stop shop for SSO integration
 - All three protocols can be configured
- Updated to Angular 9
- Improved Performance
- Ability to destroy SSO sessions and Tokens
- I promise updated KB articles are coming

What you need to do

- Nothing
- Move Shibboleth integrations to CAS
 - All Current Shibboleth integrations added to sso dev
 - Test by overriding shibboleth.ucdavis.edu to 128.120.39.52(ssodev2)
- Consider moving SAML to OAuth
- Consider switching from CAS to OAuth (need attributes)

Going Forward

- Start using `stage.cas.ucdavis.edu`
 - Same infrastructure as production
 - Monitored and any downtime treated like production environment
 - Services with "qa" or "stage" in domain should be moved
- All CAS Services "claimed" in registry
- Remove service from registry if retired
- Automated Registry "cleaning"

Thank You

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