

Table of Contents

PAWS 1.0 Review Notes.....	1
Review Criteria.....	1
6/16 Authorization Processor.....	1
6/14 Authentication Processor.....	1
6/5 MasterXFireServlet and XFireWSMTAdapter and related classes.....	2

PAWS 1.0 Review Notes

Review Criteria

During the code reviews, we want to look issues in the following areas:

- concurrency
- code/logic duplication
- inefficiency
 - ◆ same object loaded multiple times
 - ◆ obvious perf bottlenecks
- exception/error handling
 - ◆ logging exceptions
- debuggability
 - ◆ logging
 - ◆ correct log levels for different scenarios
- security

6/16 Authorization Processor

- remove if current ysm account equals null snippet and replace with assert current ysm account not equals null
- ln 70 - pass in account instead of accountIdLong
- make sure all root exceptions are logged
- ln 94 - parseLong should use SpendAccountMapper since spend account can be string
- ln 118 - get rid of okSpendAccounts, look up getAsset and pass that into hasCapabilityOnSpendAcct for faster performance
- once have asset, can check if asset is in the master account
- pass in asset obj instead of IDMIId into switchSpendAcct for faster performance (Jenny to provide support from UserContext)
- remove hasCapabilityForAnySpendAcct section - this is expensive, and backend should do the check anyway
- Proxied services (RTF, BidInfo, KWS) should have required account header since the backend doesn't do auth check
 - ◆ need Doc change too
- after caching changed for authenticationprocessor, if currentSpendAccount==spend account passed in, don't need to get the asset again

UserContext change

- userContext.getLicense - should cache license and company id & clear on renew
- remove userContext.getLicenses

6/14 Authentication Processor

- bean properties -> non static
- store list of user contexts per key (need configurable list size)
- comment getSessionCacheObj function (clean up called from finally block in...)
- remove synchronize on line 228
- ln 251 - print out exception in debug
- ln 316 - remove Session cache.remove call
- Use ysmAccount and spendAccount with username as cache key
- validate Headers with what's in current UserContext

- remove `HttpContext.clear` call in `afterEnd` and call `clearSpendAccount` before processing the request if there's no spend account in the request (otherwise, just call `switchSpendAccount`)
- in `loginAndRefreshCache` - handle `IDMExceptions` and just throw `WSMTException`
- in `createLicense` - handle `IDMExceptions` and just throw `WSMTException`

6/5 MasterXFireServlet and XFireWSMTAdapter and related classes

- Make `log.debug()` conditional
- Initialize `serverIP` once at startup instead of in each request
- Remove `WSMTMethod.bulkOperation` annotation.
- Remove `WSMTRequest.actionType`

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