v2.4 Release Notes

- Release Notes for Grouper 2.4
  - New Features in Grouper 2.4.0
  - v2.4.0 patches
  - For more information about upcoming plans, see the Grouper Product Roadmap .
  - Upgrading to Grouper 2.4 from Grouper 2.3
    - Upgrade Steps
    - Important Changes in Grouper 2.4 that impact the upgrade
    - Convert the ehcache xml file to properties
    - Convert the sources.xml to subject.properties
    - vt-ldap was converted to Ldaptive
    - Note that the admin and lite UIs are removed
    - Custom member fields have been deprecated
    - Schema updates
    - Check logs
    - Internationalization
  - See Also

Release Notes for Grouper 2.4

Grouper v2.4.0 includes ***276*** fixes and improvements over v2.3.0. See the full list.

New Features in Grouper 2.4.0

Most features in Grouper 2.4.0 are also in 2.3.0 patches. The upgrade from 2.3.0 to 2.4.0 is a minor upgrade.

Migrate to new UI	Migrate all screens in Admin and Lite UI to the "New UI" and remove the admin and lite UI. Note, you can add the legacy UI if needed
Deprovisioning	Deprovision access from someone to loses an affiliation or changes jobs
Attestation	Groups and folders can be marked to require periodic membership review. Reminders will be emailed to group owners
Grouper deployment guide	Version 1 of the Grouper deployment guide is an introduction to Grouper and best practices for using it
New messaging strategies	Add new messaging strategies for ActiveMQ, AMQP (e.g. RabbitMQ), AWS
Grouper loader in UI	User interface to show loader configuration, diagnostics, logs, wizard editor
Subject API diagnostics	User interface to analyze, diagnose, and recommend improvements for subject source configuration
Real time SQL loader	Allow a change log table (SQL triggers) or messages to trigger loader updates for a partial population or single user
Instrumentation	Improve and standardize Grouper logging to provide centralized metrics at an institution and the ability to upload stats to a central Internet2 server
Packaging	Docker containers that hold Grouper components for each deployment
GSH next generation	Improve gsh by adding readline like capabilities (line editing, tab completions, history, etc)
Inbound messages	Allow Grouper to read a message queue and act on messages (e.g. membership changes etc)
vt-ldap to Ldaptive	Upgrade from vt-ldap to Ldaptive
properties config	Convert sources.xml and ehcache.xml to be cascaded properties files
Update 3rd party libraries	Update 3rd party libraries to the latest version that is feasible

v2.4.0 patches

Grouper patching instructions (how to install patches with the Grouper installer)

note: if a java file is included in a patch, then all associated classfiles are there too

Date	Patch	Description	Files affected
API patches			
2018/09/06	grouper_v2_4_0_api_patch_0	GRP-1888: Fix default configuration for ldap validator GRP-1889: messaging routing key should be optional	classes/edu/internet2/middleware/grouper/ldap/ldaptive/LdaptiveSessionImpl.java classes/edu/internet2/middleware/grouper/messaging/MessagingListenerController.java classes/grouper-loader.base.properties
2018/09/13	grouper_v2_4_0_api_patch_1	GRP-1890: Real time ldap loader with LDAP_GROUPS_FROM_ATTRIBUTES	classes/edu/internet2/middleware/grouper/app/loader/db/GrouperLoaderResultset.java classes/edu/internet2/middleware/grouper/app/loader/GrouperLoaderIncrementalMessagingListener.java classes/edu/internet2/middleware/grouper/app/loader/ldap/LoaderLdapUtils.java classes/edu/internet2/middleware/grouper/app/loader/GrouperLoaderIncrementalJob.java
2018/09/17	grouper_v2_4_0_api_patch_2	GRP-1901: Real time loader SQL jobs - allow separate database for incremental table	classes/edu/internet2/middleware/grouper/app/loader/GrouperLoaderIncrementalJob.java
2018/10/09	grouper_v2_4_0_api_patch_3	GRP-1803: gsh script incorrectly assumes GROUPER_CP=${GROUPER_HOME}/conf GRP-1853: receive non zero return code from gsh if fails GRP-1916: Refactor gsh NOTE! In order to patch files in bin/ directory, requires latest grouperInstaller.jar (2018-10-31 or later) NOTE! If patching UI and WS, disregard errors "Problem applying patch since this patch old file" and allow to force update the bin files. Or, can set grouperInstaller.autorun.forceInstallPatch if using custom properties	classes/groovysh.profile classes/edu/internet2/middleware/grouper/app/gsh/GrouperShell.java bin/gsh.sh bin/gsh.bat classes/edu/internet2/middleware/subject/SubjectCheckConfig.java bin/README.txt classes/grouper.base.properties classes/edu/internet2/middleware/grouper/app/gsh/GrouperGroovysh.java
2018/10/15	grouper_v2_4_0_api_patch_4	GRP-1826: Disable/Enable Loader job GRP-1928: Issue when rescheduling a job when the type is changing from interval to cron	classes/edu/internet2/middleware/grouper/j2ee/status/DiagnosticLoaderJobTest.java classes/edu/internet2/middleware/grouper/app/loader/GrouperLoader.java
2018/11/02	grouper_v2_4_0_api_patch_5	GRP-1943: add debugging information in UI search GRP-1857: Specify Subject Sources for Grouper UI (Web)	classes/edu/internet2/middleware/grouper/misc/GrouperObjectFinder.java
2018/11/05	grouper_v2_4_0_api_patch_6	GRP-1941: LDAP loader - parsing complex attribute values GRP-1877: LDAP_GROUPS_FROM_ATTRIBUTES should utilize extra attributes to construct display name	classes/grouper-loader.base.properties classes/edu/internet2/middleware/grouper/app/loader/LoaderJobBean.java classes/edu/internet2/middleware/grouper/misc/GrouperCheckConfig.java classes/edu/internet2/middleware/grouper/app/loader/ldap/LdapResultsTransformationOutput.java classes/edu/internet2/middleware/grouper/app/loader/GrouperLoaderJob.java classes/edu/internet2/middleware/grouper/app/loader/ldap/LdapResultsTransformationInput.java classes/edu/internet2/middleware/grouper/app/loader/ldap/LdapResultsTransformationBase.java classes/edu/internet2/middleware/grouper/app/loader/GrouperLoaderType.java classes/edu/internet2/middleware/grouper/app/loader/ldap/LoaderLdapUtils.java classes/edu/internet2/middleware/grouper/app/loader/db/GrouperLoaderResultset.java classes/edu/internet2/middleware/grouper/app/loader/GrouperLoaderIncrementalJob.java classes/edu/internet2/middleware/grouper/app/loader/ldap/LdapResultsTransformationDelimitedValueExample.java
2018/11/09	grouper_v2_4_0_api_patch_7	GRP-1856: Instrumentation file location should be configurable	classes/edu/internet2/middleware/grouper/instrumentation/InstrumentationThread.java

2018/11/09	grouper_v2_4_0_api_patch_8	GRP-1895: ldaptive default ThreadLocalTLSSocketFactory mixes hostnames with multiple server configs	lib/grouper/ldaptive-1.1.0.jar lib/grouper/ldaptive-1.1.2.jar
2018/11/13	grouper_v2_4_0_api_patch_9	GRP-1936: Upgrade dom4j to 2.1.1	lib/grouper/dom4j-2.1.0.jar lib/grouper/dom4j-2.1.1.jar classes/edu/internet2/middleware/grouper/misc/GrouperCheckConfig.java
2018/11/24	grouper_v2_4_0_api_patch_10	GRP-1952: add method to stem finder to find stems by two attribute values on an assignment of assignment	classes/edu/internet2/middleware/grouper/StemFinder.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3StemDAO.java classes/edu/internet2/middleware/grouper/internal/dao/StemDAO.java classes/edu/internet2/middleware/grouper/GroupFinder.java
2019/01/05	grouper_v2_4_0_api_patch_11	GRP-1963: grouper configuration metadata	classes/grouper-loader.base.properties classes/grouper.cache.base.properties classes/subject.base.properties classes/grouper.client.base.properties classes/grouper.base.properties
2019/01/05	grouper_v2_4_0_api_patch_12	GRP-1950: Minor improvements to daemon jobs page GRP-1974: Add role inheritance to new ui GRP-1973: Use group name as routing key to rabbitmq GRP-1963: grouper configuration metadata GRP-1920: Startup doesn't print some config properties defined outside the default properties files GRP-1957: Logout redirectToUrl not working GRP-1944: Assign grouper types to objects	classes/edu/internet2/middleware/grouper/app/grouperTypes/GrouperObjectTypesAttributeNames.java classes/edu/internet2/middleware/grouperClient/config/GrouperHibernateConfigClient.java classes/edu/internet2/middleware/grouper/Stem.java classes/edu/internet2/middleware/grouper/app/grouperTypes/GrouperObjectTypesSettings.java classes/edu/internet2/middleware/grouperClient/jdbc/GcJdbcConnectionProvider.java classes/edu/internet2/middleware/grouper/cfg/dbConfig/ConfigSectionMetadata.java classes/edu/internet2/middleware/grouper/changeLog/esb/consumer/EsbMessagingPublisher.java classes/edu/internet2/middleware/grouper/util/GrouperUtil.java classes/edu/internet2/middleware/grouper/cfg/dbConfig/ConfigFileHierarchy.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3RegistryDAO.java classes/edu/internet2/middleware/grouper/app/grouperTypes/GrouperObjectTypesConfiguration.java classes/edu/internet2/middleware/grouper/misc/GrouperStartup.java classes/edu/internet2/middleware/subject/provider/JdbcConnectionProvider.java classes/edu/internet2/middleware/grouper/changeLog/esb/consumer/EsbConsumer.java classes/edu/internet2/middleware/grouperClient/config/ConfigPropertiesCascadeBase.java classes/edu/internet2/middleware/grouper/cfg/dbConfig/ConfigItemMetadata.java classes/edu/internet2/middleware/grouper/ddl/GrouperDdlUtils.java classes/edu/internet2/middleware/grouperClient/config/NonPooledConnectionProvider.java classes/edu/internet2/middleware/grouper/cfg/dbConfig/ConfigItemMetadataType.java classes/edu/internet2/middleware/grouperClient/config/ConfigPropertiesDatabaseLog.java classes/edu/internet2/middleware/grouper/app/loader/GrouperLoader.java classes/edu/internet2/middleware/grouper/cfg/GrouperHibernateConfig.java classes/edu/internet2/middleware/grouper/cfg/dbConfig/ConfigFileName.java classes/edu/internet2/middleware/grouperClient/util/GrouperClientCommonUtils.java classes/edu/internet2/middleware/subject/provider/JdbcConnectionBean.java classes/edu/internet2/middleware/grouper/cfg/dbConfig/ConfigFileMetadata.java classes/edu/internet2/middleware/grouper/misc/GrouperCheckConfig.java classes/edu/internet2/middleware/grouper/app/grouperTypes/GrouperObjectTypesAttributeValue.java classes/edu/internet2/middleware/grouperClient/jdbc/GcJdbcConnectionBean.java

2019/01/05	grouper_v2_4_0_api_patch_13	GRP-1944: Assign grouper types to objects	classes/grouper-loader.base.properties
2019/01/07	grouper_v2_4_0_api_patch_14	GRP-1944: Assign grouper types to objects	classes/edu/internet2/middleware/grouper/app/grouperTypes/GrouperObjectTypesJob.java
2019/01/13	grouper_v2_4_0_api_patch_15	GRP-1988: add better caching to subjects	classes/subject.base.properties
2019/01/14	grouper_v2_4_0_api_patch_16	GRP-1988: add better caching to subjects	classes/edu/internet2/middleware/grouper/subj/SourcesXmlResolver.java classes/edu/internet2/middleware/grouper/subj/cache/SubjectSourceCacheBean.java classes/edu/internet2/middleware/subject/provider/BaseSourceAdapter.java classes/edu/internet2/middleware/grouper/subj/cache/SubjectSourceCacheItem.java classes/edu/internet2/middleware/grouper/subj/cache/SubjectSourceSerializerFile.java classes/edu/internet2/middleware/grouper/subj/cache/SubjectSourceCache.java classes/edu/internet2/middleware/subject/config/SubjectConfig.java classes/edu/internet2/middleware/subject/Source.java classes/edu/internet2/middleware/grouper/subj/cache/SubjectSourceSerializer.java classes/edu/internet2/middleware/subject/LazySource.java classes/edu/internet2/middleware/grouper/registry/RegistryReset.java classes/edu/internet2/middleware/subject/provider/JDBCSourceAdapter.java classes/edu/internet2/middleware/grouper/subj/cache/SubjectSourceCacheStat.java
2019/01/14	grouper_v2_4_0_api_patch_17	GRP-1988: add better caching to subjects, adjust default settings	classes/subject.base.properties
2019/01/16	grouper_v2_4_0_api_patch_18	GRP-1990: improve subject caching	classes/grouper.cache.base.properties
2019/01/16	grouper_v2_4_0_api_patch_19	GRP-1990: improve subject caching	classes/edu/internet2/middleware/grouper/subj/cache/SubjectSourceSerializerFile.java classes/edu/internet2/middleware/grouper/app/loader/db/GrouperLoaderResultset.java classes/edu/internet2/middleware/grouper/subj/cache/SubjectSourceCache.java classes/edu/internet2/middleware/grouper/app/loader/LoaderMemberWrapper.java
2019/01/31	grouper_v2_4_0_api_patch_20	GRP-1991: Allow any valid exchange type for rabbitmq	classes/edu/internet2/middleware/grouper/misc/GrouperCheckConfig.java classes/grouper-loader.base.properties

2019/02/05	grouper_v2_4_0_api_patch_21	GRP-1991: Allow any valid exchange type for rabbitmq	classes/edu/internet2/middleware/grouperMessagingRabbitmq/MessageReceiveEventListener.java classes/edu/internet2/middleware/grouper/app/messaging/MessageConsumerDaemon.java classes/edu/internet2/middleware/grouper/changeLog/esb/consumer/EsbMessagingPublisher.java classes/edu/internet2/middleware/grouperClient/ws/beans/WsRestSendMessageRequest.java classes/edu/internet2/middleware/grouperMessagingRabbitmq/RabbitMQConnectionFactoryImpl.java classes/edu/internet2/middleware/grouperMessagingRabbitmq/RabbitMQConnectionFactory.java classes/edu/internet2/middleware/grouperClient/api/GcMessageSend.java classes/edu/internet2/middleware/grouper/messaging/MessagingListenerController.java classes/edu/internet2/middleware/grouper/app/messaging/InputMessageGrouperHeader.java classes/edu/internet2/middleware/grouperClient/messaging/GrouperMessageSendParam.java classes/edu/internet2/middleware/grouperClient/messaging/GrouperMessageReceiveParam.java classes/edu/internet2/middleware/grouper/changeLog/ChangeLogConsumerToMessage.java classes/edu/internet2/middleware/grouperMessagingRabbitmq/GrouperMessagingRabbitmqSystem.java
2019/02/06	grouper_v2_4_0_api_patch_22	GRP-2018: esb should send MEMBER_ADD / DELETE / UPDATE events	classes/grouper-loader.base.properties
2019/02/06	grouper_v2_4_0_api_patch_23	GRP-2018: esb should send MEMBER_ADD / DELETE / UPDATE events	classes/edu/internet2/middleware/grouper/registry/RegistryReset.java classes/edu/internet2/middleware/grouper/changeLog/esb/consumer/EsbConsumer.java classes/edu/internet2/middleware/grouper/changeLog/esb/consumer/EsbEvent.java
2019/02/07	grouper_v2_4_0_api_patch_24	GRP-2006: Membership UI advanced options	classes/grouper.base.properties classes/edu/internet2/middleware/grouper/misc/GrouperCheckConfig.java
2019/02/07	grouper_v2_4_0_api_patch_25	GRP-2006: Membership UI advanced options	classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3PITMembershipViewDAO.java classes/edu/internet2/middleware/grouper/MembershipFinder.java classes/edu/internet2/middleware/grouper/internal/dao/MembershipDAO.java classes/edu/internet2/middleware/grouper/internal/dao/PITMembershipViewDAO.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3MembershipDAO.java classes/edu/internet2/middleware/grouper/membership/MembershipSubjectContainer.java
2019/02/07	grouper_v2_4_0_api_patch_26	GRP-2021: config overrides with EL can happen in the wrong order	classes/edu/internet2/middleware/grouperClient/config/ConfigPropertiesCascadeBase.java
2019/02/11	grouper_v2_4_0_api_patch_27	GRP-2026: Unable to trigger jobs using Grouper UI if class isn't in UI (e.g. pspng full sync)	classes/edu/internet2/middleware/grouper/app/loader/GrouperDaemonJob.java classes/edu/internet2/middleware/grouper/app/loader/GrouperLoader.java
2019/02/16	grouper_v2_4_0_api_patch_28	GRP-1972: Build visualization graph of object relationships	classes/grouper.base.properties

2019/02/16	grouper_v2_4_0_api_patch_29	GRP-1972: Build visualization graph of object relationships	classes/edu/internet2/middleware/grouper/app/graph/GraphNode.java classes/edu/internet2/middleware/grouper/app/visualization/VisualStyle.java classes/edu/internet2/middleware/grouper/app/graph/GraphEdge.java classes/edu/internet2/middleware/grouper/app/graph/RelationGraph.java classes/edu/internet2/middleware/grouper/app/graph/GraphSampleData.java classes/edu/internet2/middleware/grouper/app/visualization/VisualStyleSet.java classes/edu/internet2/middleware/grouper/app/visualization/StyleObjectType.java classes/edu/internet2/middleware/grouper/misc/GrouperObjectSubjectWrapper.java classes/edu/internet2/middleware/grouper/app/graph/GrouperObjectProvisionerWrapper.java classes/edu/internet2/middleware/grouper/userData/GrouperUserDataApi.java classes/edu/internet2/middleware/grouper/misc/GrouperCheckConfig.java classes/edu/internet2/middleware/grouper/userData/GrouperUserDataUtils.java classes/edu/internet2/middleware/grouper/app/visualization/VisualSettings.java
2019/02/21	grouper_v2_4_0_api_patch_30	GRP-2040: Query produced by GrouperDaemonDeleteMultipleCorruption.fixAssign is expensive causing job to fail Subject filtering bug with Member.getSubject()	classes/edu/internet2/middleware/grouper/app/loader/GrouperDaemonDeleteMultipleCorruption.java classes/edu/internet2/middleware/grouper/Member.java
2019/02/21	grouper_v2_4_0_api_patch_31	GRP-1978: incorporate new instrumentation centralized server	classes/edu/internet2/middleware/grouper/instrumentation/TierInstrumentationDaemon.java classes/grouper-loader.base.properties
2019/03/05	grouper_v2_4_0_api_patch_32	GRP-2003: add obliterate stem to ui	classes/edu/internet2/middleware/grouper/GrouperSourceAdapter.java classes/edu/internet2/middleware/grouper/audit/AuditFieldType.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3GroupDAO.java classes/edu/internet2/middleware/grouper/Group.java classes/edu/internet2/middleware/grouper/cfg/dbConfig/ConfigFileName.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3AttributeDefNameDAO.java classes/edu/internet2/middleware/grouper/audit/AuditTypeBuiltin.java classes/edu/internet2/middleware/grouper/misc/M.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3AttributeDefDAO.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3StemDAO.java classes/edu/internet2/middleware/grouper/Stem.java
2019/03/08	grouper_v2_4_0_api_patch_33	GRP-1909: Allow blank description in new groups created by group list loaders (override "auto-created by grouperLoader")	classes/grouper-loader.base.properties
2019/03/08	grouper_v2_4_0_api_patch_34	GRP-1909: Allow blank description in new groups created by group list loaders (override "auto-created by grouperLoader")	classes/edu/internet2/middleware/grouper/app/loader/GrouperLoaderType.java
2019/03/14	grouper_v2_4_0_api_patch_35	GRP-2060: loader log message bad format	classes/edu/internet2/middleware/grouper/app/loader/GrouperLoaderType.java
2019/03/17	grouper_v2_4_0_api_patch_36	GRP-2064: cannot add self in grouper, separation of duties	classes/grouper.base.properties
2019/03/17	grouper_v2_4_0_api_patch_37	GRP-2064: cannot add self in grouper, separation of duties	classes/edu/internet2/middleware/grouper/hooks/examples/MembershipCannotAddSelfToGroupHook.java classes/edu/internet2/middleware/grouper/misc/GrouperCheckConfig.java classes/edu/internet2/middleware/grouper/hooks/logic/GrouperHookType.java
2019/03/17	grouper_v2_4_0_api_patch_38	GRP-2065: Large groups suffer slow perf in loader	classes/edu/internet2/middleware/grouper/app/loader/db/GrouperLoaderResultset.java

2019/03/19	grouper_v2_4_0_api_patch_39	GRP-2062: Show and filter group memberships under a folder	classes/edu/internet2/middleware/grouper/internal/dao/PITMembershipViewDAO.java classes/edu/internet2/middleware/grouper/MembershipFinder.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3PITMembershipViewDAO.java
2019/03/19	grouper_v2_4_0_api_patch_40	GRP-2067: duo paging	classes/edu/internet2/middleware/grouperDuo/GrouperDuoFullRefresh.java classes/edu/internet2/middleware/grouperDuo/GrouperDuoCommands.java
2019/04/04	grouper_v2_4_0_api_patch_41	GRP-2078: add more features to controlling RegistrySubjects and give a hint if source isnt listed	classes/edu/internet2/middleware/grouper/internal/dao/RegistrySubjectAttributeDAO.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3RegistrySubjectDAO.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3RegistryDAO.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3DAOFactory.java classes/edu/internet2/middleware/grouper/internal/dao/RegistrySubjectDAO.java classes/edu/internet2/middleware/grouper/RegistrySubject.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3RegistrySubjectAttributeDAO.java classes/edu/internet2/middleware/grouper/misc/GrouperDAOFactory.java classes/edu/internet2/middleware/grouper/registry/RegistryReset.java classes/edu/internet2/middleware/grouper/RegistrySubjectAttribute.java
2019/04/24	grouper_v2_4_0_api_patch_42	GRP-2110: Use ssl context while making connections to rabbitmq	classes/edu/internet2/middleware/grouperMessagingRabbitmq/RabbitMQConnectionFactoryImpl.java
2019/05/01	grouper_v2_4_0_api_patch_43	GRP-2113: grouper mail needs more settings	classes/grouper.base.properties classes/edu/internet2/middleware/grouper/util/GrouperEmail.java
2019/05/02	grouper_v2_4_0_api_patch_44	GRP-2116: Improve ChangeLogTempToEntity performance by batching	classes/grouper.cache.base.properties classes/grouper.hibernate.base.properties classes/grouper-loader.base.properties

2019/05/02	grouper_v2_4_0_api_patch_45	GRP-2116: Improve ChangeLogTempToEntity performance by batching GRP-2117: findBadMemberships query performance on MySQL	classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3PITGroupDAO.java classes/edu/internet2/middleware/grouper/pit/PITAttributeAssign.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3PITMemberDAO.java classes/edu/internet2/middleware/grouper/pit/PITMembership.java classes/edu/internet2/middleware/grouper/internal/dao/PITFieldDAO.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3PITMembershipDAO.java classes/edu/internet2/middleware/grouper/misc/AddMissingGroupSets.java classes/edu/internet2/middleware/grouper/changeLog/ChangeLogTempToEntity.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3MembershipDAO.java classes/edu/internet2/middleware/grouper/internal/dao/PITMembershipDAO.java classes/edu/internet2/middleware/grouper/pit/PITGroupSet.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3PITMembershipViewDAO.java classes/edu/internet2/middleware/grouper/pit/PITRoleSet.java classes/edu/internet2/middleware/grouper/pit/PITAttributeDefNameSet.java classes/edu/internet2/middleware/grouper/internal/dao/PITGroupDAO.java classes/edu/internet2/middleware/grouper/internal/dao/PITMemberDAO.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3PITGroupDAO.hbm.xml classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3PITFieldDAO.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3PITFieldDAO.hbm.xml classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3GroupSetDAO.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3StemDAO.java classes/edu/internet2/middleware/grouper/misc/SyncPITTables.java classes/edu/internet2/middleware/grouper/pit/PITAttributeAssignActionSet.java
2019/05/06	grouper_v2_4_0_api_patch_46	GRP-2121: SQL provisioning	classes/grouper-loader.base.properties classes/grouper.client.base.properties classes/grouper.base.properties
2019/05/06	grouper_v2_4_0_api_patch_47	GRP-2121: SQL provisioning	classes/edu/internet2/middleware/grouper/misc/GrouperCheckConfig.java classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcTableSyncOutput.java classes/edu/internet2/middleware/grouper/app/tableSync/TableSyncOtherJob.java classes/edu/internet2/middleware/grouper/cfg/dbConfig/ConfigFileMetadata.java classes/edu/internet2/middleware/grouperClient/util/GrouperClientUtils.java classes/edu/internet2/middleware/grouperClient/jdbc/GcDbAccess.java classes/edu/internet2/middleware/grouper/misc/GrouperObjectFinder.java classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcTableSyncTableMetadata.java classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcTableSyncTableData.java classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcTableSyncRowData.java classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcTableSyncColumnMetadata.java classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcTableSync.java classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcTableSyncLog.java classes/edu/internet2/middleware/grouper/hibernate/ByObjectStatic.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3DAO.java
2019/05/11	grouper_v2_4_0_api_patch_48	GRP-2129: grouper types should have tooltips that describe the type	classes/edu/internet2/middleware/grouper/app/grouperTypes/GrouperObjectTypesSettings.java

2019/05/13	grouper_v2_4_0_api_patch_49	GRP-2079: add local entity support in new ui	classes/edu/internet2/middleware/grouper/group/TypeOfGroup.java classes/edu/internet2/middleware/grouper/userData/GrouperUserDataApi.java classes/edu/internet2/middleware/grouper/privs/Privilege.java
2019/05/29	grouper_v2_4_0_api_patch_50	GRP-2128: Detect object types based on folders' extensions and allow auto assigning object types GRP-2134: Add types when creating folders via templates GRP-2155: types on folders should have checkboxes so its optional GRP-2156: If a checkbox is unchecked on the template form and another action requires it, make it a no-op	classes/edu/internet2/middleware/grouper/app/grouperTypes/GrouperObjectTypesConfiguration.java classes/edu/internet2/middleware/grouper/app/grouperTypes/StemObjectType.java classes/edu/internet2/middleware/grouper/app/grouperTypes/GrouperObjectTypesSettings.java
2019/05/31	grouper_v2_4_0_api_patch_51	GRP-2118: Clean up messaging related properties files	lib/qpid-jms-client-0.11.1.jar lib/qpid-jms-client-0.41.0.jar classes/edu/internet2/middleware/grouperMessagingActiveMQ/GrouperMessagingActiveMQSystem.java classes/edu/internet2/middleware/grouper/messaging/MessagingListenerController.java lib/activemq-client-5.15.0.jar
2019/06/03	grouper_v2_4_0_api_patch_52	GRP-2102: Visualization fixes for 2.4 (roll-up task)	classes/grouper.base.properties
2019/06/03	grouper_v2_4_0_api_patch_53	GRP-2102: Visualization fixes for 2.4 (roll-up task) - GRP-2035: visualization of subject should show direct group membership for that subject - GRP-2071: Add visualization option for full screen - GRP-2091: grouper visualization fails on circular references - GRP-2092: add key/legend to visualization - GRP-2094: visualization: simple (non-listOfGroups) loaded groups should show membership count - GRP-2095: visualization: label loader groups, ref, basis, policy, composites - GRP-2096: visualization: if showing members, show the number and "members", e.g. "125 members" - GRP-2097: visualization: option to include groups in counts - GRP-2098: visualization: add option to show direct and total counts - GRP-2099: visualization: take tooltip off entire image - GRP-2103: UI visualization fix dot output syntax errors - GRP-2107: visualization svg not working - GRP-2150: Visualization change arrow directions for group memberships - GRP-2152: visualization: change arrow for simple loader from loader color to membership	classes/edu/internet2/middleware/grouper/app/graph/RelationGraph.java classes/edu/internet2/middleware/grouper/app/graph/GraphNode.java classes/edu/internet2/middleware/grouper/app/graph/GraphEdge.java classes/edu/internet2/middleware/grouper/app/visualization/StyleObjectType.java
2019/06/03	grouper_v2_4_0_api_patch_54	GRP-2177: null string properties in java cause viz issues, and if cant read loader attributes	classes/edu/internet2/middleware/grouper/app/graph/GraphNode.java
2019/06/04	grouper_v2_4_0_api_patch_55	GRP-2176: move grouper externalized text from ui to api GRP-2182: add javax servlet api to ui and ws so gsh works completely	classes/edu/internet2/middleware/grouper/util/GrouperUtil.java classes/edu/internet2/middleware/grouper/cfg/text/TextBundleBean.java classes/edu/internet2/middleware/grouperClient/config/GrouperUiApiTextConfig.java classes/grouperText/grouper.textNg.en.us.base.properties classes/edu/internet2/middleware/grouper/cfg/text/GrouperTextContainer.java classes/edu/internet2/middleware/grouper/cfg/GrouperConfig.java classes/grouperText/grouper.textNg.fr.fr.base.properties classes/grouper.base.properties
2019/06/05	grouper_v2_4_0_api_patch_56	GRP-2179: Bad effective group sets GRP-2174: endless loop in change log temp processor GRP-2181: Fix handling of groupAttrReaders/groupAttrUpdaters fields for entities	classes/edu/internet2/middleware/grouper/app/upgradeTasks/UpgradeTasksInterface.java classes/edu/internet2/middleware/grouper/app/upgradeTasks/UpgradeTasksJob.java classes/edu/internet2/middleware/grouper/misc/GrouperCheckConfig.java classes/grouper-loader.base.properties classes/edu/internet2/middleware/grouper/app/upgradeTasks/UpgradeTasks.java classes/edu/internet2/middleware/grouper/changeLog/ChangeLogTempToEntity.java classes/edu/internet2/middleware/grouper/Field.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3GroupSetDAO.java classes/edu/internet2/middleware/grouper/misc/FindBadMemberships.java classes/edu/internet2/middleware/grouper/internal/dao/GroupSetDAO.java

2019/06/05	grouper_v2_4_0_api_patch_57	GRP-1981: Provisioning in UI	classes/grouper.base.properties classes/grouperText/grouper.textNg.en.us.base.properties
2019/06/05	grouper_v2_4_0_api_patch_58	GRP-1981: Provisioning in UI	classes/edu/internet2/middleware/grouperDuo/GrouperDuoFullRefresh.java classes/edu/internet2/middleware/grouper/app/provisioning/GrouperProvisioningAttributeValue.java classes/edu/internet2/middleware/grouper/app/provisioning/GrouperProvisioningJob.java classes/edu/internet2/middleware/grouper/app/provisioning/GrouperProvisioningSettings.java classes/edu/internet2/middleware/grouperDuo/GrouperDuoUtils.java classes/edu/internet2/middleware/grouper/util/GrouperUtil.java classes/grouper-loader.base.properties classes/edu/internet2/middleware/grouper/app/provisioning/GrouperProvisioningTarget.java classes/edu/internet2/middleware/grouper/misc/GrouperCheckConfig.java classes/edu/internet2/middleware/grouper/app/provisioning/GrouperProvisioningService.java classes/edu/internet2/middleware/grouper/app/provisioning/GrouperProvisioningAttributeNames.java classes/edu/internet2/middleware/grouper/Stem.java
2019/06/09	grouper_v2_4_0_api_patch_59	GRP-2063: Allow ad-hoc sql reports	classes/grouper.base.properties classes/grouperText/grouper.textNg.en.us.base.properties

2019/06/09	grouper_v2_4_0_api_patch_60	GRP-2063: Allow ad-hoc sql reports	classes/grouper-loader.base.properties lib/commons-csv-1.6.jar classes/edu/internet2/middleware/grouper/misc/GrouperCheckConfig.java classes/edu/internet2/middleware/grouper/app/reports/GrouperReportClearJob.java lib/aws-java-sdk-1.9.0-sources.jar lib/httpclient-4.5.8.jar lib/httpcore-4.2.jar lib/aws-java-sdk-sqs-1.11.567.jar lib/aws-java-sdk-core-1.11.529.jar lib/aws-java-sdk-1.11.529.jar lib/aws-java-sdk-kms-1.11.533.jar classes/edu/internet2/middleware/grouper/app/reports/GrouperReportLogic.java lib/httpclient-4.2.3.jar lib/jackson-annotations-2.9.8.jar lib/aws-java-sdk-s3-1.11.529.jar lib/aws-java-sdk-bundle-1.11.155.jar classes/edu/internet2/middleware/grouper/app/reports/GrouperReportInstance.java classes/edu/internet2/middleware/grouper/app/reports/GrouperReportConfigurationBean.java classes/edu/internet2/middleware/grouper/app/reports/ReportConfigType.java lib/jackson-annotations-2.1.1.jar classes/edu/internet2/middleware/grouper/app/reports/GrouperReportJob.java classes/edu/internet2/middleware/grouper/util/GrouperUtil.java lib/jackson-core-2.1.1.jar classes/edu/internet2/middleware/grouper/app/reports/GrouperReportConfigAttributeNames.java classes/edu/internet2/middleware/grouper/app/reports/GrouperReportSettings.java classes/edu/internet2/middleware/grouper/audit/AuditTypeBuiltin.java lib/aws-java-sdk-sns-1.11.567.jar classes/edu/internet2/middleware/grouper/app/reports/GrouperReportInstanceService.java lib/httpcore-4.4.11.jar classes/edu/internet2/middleware/grouper/app/reports/GrouperReportInstanceAttributeNames.java lib/jackson-core-2.9.8.jar lib/jackson-databind-2.1.1.jar lib/jackson-databind-2.9.8.jar classes/edu/internet2/middleware/grouper/app/reports/GrouperReportData.java classes/edu/internet2/middleware/grouper/app/reports/GrouperReportConfigService.java classes/edu/internet2/middleware/grouper/app/reports/ReportConfigFormat.java lib/aws-java-sdk-1.9.0.jar lib/joda-time-2.2.jar
2019/06/10	grouper_v2_4_0_api_patch_61	GRP-2063: Allow ad-hoc sql reports	classes/edu/internet2/middleware/grouper/app/reports/GrouperReportLogic.java classes/edu/internet2/middleware/grouper/app/reports/GrouperReportInstance.java classes/edu/internet2/middleware/grouper/app/reports/ReportConfigFormat.java classes/edu/internet2/middleware/grouper/util/GrouperUtil.java
2019/06/12	grouper_v2_4_0_api_patch_62	GRP-2206: reports incorrectly detect S3 urls	classes/edu/internet2/middleware/grouper/app/reports/GrouperReportInstance.java
2019/06/12	grouper_v2_4_0_api_patch_63	GRP-2157: add template for policy group	classes/grouper.base.properties classes/grouperText/grouper.textNg.en.us.base.properties
2019/06/12	grouper_v2_4_0_api_patch_64	GRP-2157: add template for policy group	classes/edu/internet2/middleware/grouper/group/LockoutGroup.java classes/edu/internet2/middleware/grouper/group/RequireGroup.java
2019/07/22	grouper_v2_4_0_api_patch_65	GRP-2246: Visualization: tune group count query for better performance in MySQL GRP-2191: if a composite is used in visualization, it should show both factors and overall (if allowed)	classes/edu/internet2/middleware/grouper/app/graph/RelationGraph.java

2019/08/01	grouper_v2_4_0_api_patch_66	GRP-1953: grouper configuration in database and ui	classes/edu/internet2/middleware/grouper/ws/GrouperWsConfigInApi.java classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcTableSync.java classes/grouperText/grouper.textNg.en.us.base.properties classes/edu/internet2/middleware/grouper/cfg/dbConfig/ConfigFileMetadata.java classes/grouper.base.properties classes/edu/internet2/middleware/grouper/registry/RegistryReset.java classes/edu/internet2/middleware/grouper/attr/AttributeDefName.java classes/subject.base.properties classes/grouper.cache.base.properties classes/edu/internet2/middleware/grouper/util/GrouperUtil.java classes/edu/internet2/middleware/grouperDuo/GrouperDuoUtils.java classes/grouper-ui-ng.base.properties classes/edu/internet2/middleware/grouper/registry/RegistryInitializeSchema.java classes/edu/internet2/middleware/grouper/ddl/GrouperDdlUtils.java classes/edu/internet2/middleware/grouper/misc/GrouperStartup.java classes/edu/internet2/middleware/grouper/cfg/dbConfig/ConfigItemMetadataType.java classes/edu/internet2/middleware/grouper/cfg/dbConfig/ConfigItemMetadata.java classes/grouper-ws-ng.base.properties classes/edu/internet2/middleware/grouper/cfg/dbConfig/ConfigFileName.java classes/edu/internet2/middleware/grouper/subj/cache/SubjectSourceCache.java classes/edu/internet2/middleware/grouper/misc/GrouperCheckConfig.java classes/grouper.hibernate.base.properties classes/edu/internet2/middleware/grouper/ui/util/GrouperUiConfigInApi.java classes/grouper-loader.base.properties classes/edu/internet2/middleware/grouperClient/config/ConfigPropertiesCascadeBase.java
2019/08/06	grouper_v2_4_0_api_patch_67	GRP-2262: null pointer on subject cache	classes/edu/internet2/middleware/grouper/subj/cache/SubjectSourceCache.java
2019/08/19	grouper_v2_4_0_api_patch_68	GRP-2273: NullPointer exceptions with Null Subject_ID lookups GRP-2263: looping in db config when getting config while getting database config GRP-2282: deprovisioning cache throws NPE after having been running for a while GRP-2283: move ui and ws example files to api GRP-2280: grouper warnings on startup about configuration in database	classes/grouperText/grouper.textNg.en.us.base.properties classes/edu/internet2/middleware/grouper/cfg/dbConfig/ConfigFileName.java classes/edu/internet2/middleware/grouper/audit/AuditTypeBuiltin.java classes/edu/internet2/middleware/grouperClient/config/ConfigPropertiesCascadeBase.java classes/edu/internet2/middleware/subject/provider/LdapSourceAdapter.java classes/edu/internet2/middleware/subject/provider/BaseSourceAdapter.java classes/edu/internet2/middleware/grouper/app/deprovisioning/GrouperDeprovisioningLogic.java classes/edu/internet2/middleware/grouper/misc/GrouperCheckConfig.java classes/edu/internet2/middleware/grouper/app/loader/GrouperLoaderType.java classes/edu/internet2/middleware/grouper/hibernate/HibernateSession.java
2019/08/19	grouper_v2_4_0_api_patch_69	GRP-2202: Attestation using reports GRP-2265: Attestation UI doesn't show "Folder with settings"	classes/edu/internet2/middleware/grouper/audit/AuditFieldType.java classes/edu/internet2/middleware/grouper/app/attestation/GrouperAttestationJob.java classes/edu/internet2/middleware/grouper/util/EmailObject.java classes/grouperText/grouper.textNg.en.us.base.properties classes/grouper.base.properties classes/edu/internet2/middleware/grouper/misc/GrouperCheckConfig.java classes/edu/internet2/middleware/grouper/audit/AuditTypeBuiltin.java

2019/08/20	grouper_v2_4_0_api_patch_70	GRP-2151: Add workflow approval forms to grouper	classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowConstants.java classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowInstanceLogEntry.java classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowInstance.java classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowInstanceService.java classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowApprovalStates.java classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowApprovalState.java classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowConfigService.java classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowConfig.java classes/grouper-loader.base.properties classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowInstanceFileInfo.java classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowDaemonJob.java classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowApprovalAction.java classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowConfigParam.java classes/grouperText/grouper.textNg.en.us.base.properties classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowInstanceFilesInfo.java classes/grouper.base.properties classes/edu/internet2/middleware/grouper/misc/GrouperCheckConfig.java classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowSettings.java classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowConfigAttributeNames.java classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowReminderEmailJob.java classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowConfigValidator.java classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowInstanceParamValue.java classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowConfigParams.java lib/grouper/jsoup-1.12.1.jar classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowInstanceLogEntries.java classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowInstanceValidator.java classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowEmailService.java classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowInstanceAttributeNames.java

2019/08/20	grouper_v2_4_0_api_patch_71	GRP-2268: typo in groups i manage page GRP-2031: when you export as gsh, make sure its valid java when multiple objects GRP-2260: AttributeDefFinder reports "AttributeDef not found" exactly when it was found GRP-2106: Membership counts inaccurate when member has more than one membership GRP-1924: grouperClient WsGroup bean missing alternateName property GRP-2241: Allow suppression of startup error "Error: Cannot properly read UTF string from database" GRP-2259: Loader log message bad format "found (object reference) members overall" GRP-2270: Attribute def - Trace privileges GRP-1982: member search and sort strings should trim before change GRP-2101: Ldaptive exception reports queried attributes as array pointer GRP-2170: change logging for EventLog session starts from INFO->DEBUG	classes/grouperText/grouper.textNg.en.us.base.properties classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3MembershipDAO.java classes/edu/internet2/middleware/grouper/Member.java classes/edu/internet2/middleware/grouper/app/deprovisioning/GrouperDeprovisioningConfiguration.java classes/edu/internet2/middleware/grouper/xml/export/XmlExportAttributeDefNameSet.java classes/edu/internet2/middleware/grouper/xml/export/XmlExportAttributeDefName.java classes/edu/internet2/middleware/grouper/ldap/vtldap/VTLdapSessionImpl.java classes/edu/internet2/middleware/grouper/xml/export/XmlExportComposite.java classes/edu/internet2/middleware/grouper/attr/finder/AttributeDefFinder.java classes/edu/internet2/middleware/grouper/Membership.java classes/grouper.base.properties classes/edu/internet2/middleware/grouper/misc/GrouperStartup.java classes/edu/internet2/middleware/grouperClient/ws/beans/WsGroup.java classes/edu/internet2/middleware/grouper/app/loader/GrouperLoaderType.java classes/edu/internet2/middleware/grouper/GrouperSession.java classes/edu/internet2/middleware/grouper/xml/export/XmlExportAttributeAssignActionSet.java classes/edu/internet2/middleware/grouper/xml/export/XmlExportAttributeDef.java classes/edu/internet2/middleware/grouper/xml/export/XmlExportMembership.java classes/edu/internet2/middleware/grouper/xml/export/XmlExportAttributeAssign.java classes/edu/internet2/middleware/grouper/ldap/ldaptive/LdaptiveSessionImpl.java classes/edu/internet2/middleware/grouper/xml/export/XmlExportStem.java classes/edu/internet2/middleware/grouper/xml/export/XmlExportMain.java classes/edu/internet2/middleware/grouper/app/deprovisioning/GrouperDeprovisioningLogic.java classes/edu/internet2/middleware/grouper/xml/export/XmlExportGroup.java classes/edu/internet2/middleware/grouper/app/deprovisioning/GrouperDeprovisioningOverallConfiguration.java
2019/08/20	grouper_v2_4_0_api_patch_72	GRP-2244: Groups list loader sets loaded=false for groups of all other jobs	classes/edu/internet2/middleware/grouper/app/loader/GrouperLoaderType.java
2019/09/14	grouper_v2_4_0_api_patch_73	GRP-2313: Duo integration does not manage Admin Roles	classes/edu/internet2/middleware/grouperDuo/GrouperDuoAdminFullRefresh.java classes/edu/internet2/middleware/grouperDuo/GrouperDuoUtils.java classes/edu/internet2/middleware/grouperDuo/GrouperDuoChangeLogConsumer.java classes/edu/internet2/middleware/grouperDuo/GrouperDuoAdminMembershipHook.java classes/edu/internet2/middleware/grouperDuo/GrouperDuoLog.java classes/edu/internet2/middleware/grouperDuo/GrouperDuoCommands.java classes/edu/internet2/middleware/grouperDuo/GrouperDuoAdministrator.java

2019/09/29	grouper_v2_4_0_api_patch_74	GRP-1904: LDAP loader API validator gives error when GroupTypes set GRP-2305: "Stem stemOwner" is repeated in export to gsh GRP-2296: IncrementalLoading: Disabled Loader Jobs GRP-2335: cant find loader log map GRP-2307: mail.smtp.ssl=true should not also set mail.smtp.starttls.enable=true GRP-2293: Option for case insensitive searching for Grouper Loader GRP-2318: LDAP subject source doesn't support maxResults; add option to return partial results GRP-2316: GrouperDeprovisioningEmailService bug GRP-2288: default group workflow should work or be easier to user for current group with no changes GRP-1870: getting email addresses should ignore groups themselves... only users	classes/edu/internet2/middleware/grouper/app/loader/GrouperLoaderIncrementalJob.java classes/grouperText/grouper.textNg.en.us.base.properties classes/edu/internet2/middleware/grouper/internal/dao/QueryOptions.java classes/edu/internet2/middleware/grouper/attr/finder/AttributeAssignFinderResult.java classes/edu/internet2/middleware/subject/provider/JDBCSourceAdapter2.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3MemberDAO.java classes/edu/internet2/middleware/grouper/util/GrouperEmail.java classes/edu/internet2/middleware/grouper/internal/dao/AttributeAssignDAO.java classes/edu/internet2/middleware/grouper/internal/dao/AttributeDefDAO.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3GroupDAO.java classes/edu/internet2/middleware/subject/provider/JDBCSourceAdapter.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3AttributeDefDAO.java classes/edu/internet2/middleware/grouper/Group.java classes/edu/internet2/middleware/subject/provider/LdapSourceAdapter.java classes/edu/internet2/middleware/grouper/app/attestation/GrouperAttestationJob.java classes/edu/internet2/middleware/grouper/attr/finder/AttributeAssignFinderResults.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3StemDAO.java classes/edu/internet2/middleware/grouper/misc/GrouperStartup.java classes/edu/internet2/middleware/grouper/attr/finder/AttributeDefNameFinder.java classes/edu/internet2/middleware/grouper/app/loader/GrouperLoaderType.java classes/edu/internet2/middleware/grouper/app/loader/GrouperLoaderLogger.java classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowConfigValidator.java classes/edu/internet2/middleware/grouper/attr/assign/AttributeAssignSave.java classes/edu/internet2/middleware/grouper/attr/finder/AttributeAssignFinder.java classes/edu/internet2/middleware/grouper/attr/finder/AttributeDefFinder.java classes/edu/internet2/middleware/grouper/app/deprovisioning/GrouperDeprovisioningEmailService.java classes/edu/internet2/middleware/grouper/misc/GrouperCheckConfig.java classes/grouper-loader.base.properties classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowApprovalStates.java classes/edu/internet2/middleware/grouper/StemSave.java classes/edu/internet2/middleware/grouper/xml/export/XmlExportMain.java classes/edu/internet2/middleware/grouper/xml/export/XmlExportAttributeAssign.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3AttributeAssignDAO.java classes/subject.base.properties

2019/10/18	grouper_v2_4_0_api_patch_75	GRP-2361: ui for import/edit/delete database config GRP-2362: GrouperSystem cant be found GRP-2337: daemon page should show a more accurate status GRP-2363: v2.4 unit test fixes (round 1) GRP-2358: deprovisioning email service looking for attributes and not going to root folder GRP-2188: add cc etc to grouperEmail GRP-2366: GrouperUtil.stripEnd should be GrouperUtil.stripSuffix	classes/edu/internet2/middleware/grouper/instrumentation/InstrumentationThread.java classes/edu/internet2/middleware/grouper/util/GrouperEmail.java classes/edu/internet2/middleware/grouper/hibernate/HibUtils.java classes/edu/internet2/middleware/grouper/internal/dao/QueryPaging.java classes/edu/internet2/middleware/grouper/app/deprovisioning/GrouperDeprovisioningEmailService.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3StemDAO.java classes/edu/internet2/middleware/grouper/j2ee/status/DiagnosticLoaderJobTest.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3AttributeDefDAO.java classes/edu/internet2/middleware/grouper/internal/dao/AttributeAssignDAO.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3AttributeAssignDAO.java classes/edu/internet2/middleware/grouper/attr/finder/AttributeAssignFinder.java classes/edu/internet2/middleware/grouper/RegistrySubjectAttribute.java classes/edu/internet2/middleware/grouper/misc/GrouperStartup.java classes/grouperText/grouper.textNg.en.us.base.properties classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3GroupDAO.java classes/edu/internet2/middleware/grouper/subj/InternalSourceAdapter.java classes/edu/internet2/middleware/grouper/attr/finder/AttributeAssignFinderResults.java classes/edu/internet2/middleware/grouperClient/ssl/EasySslSocketFactory.java classes/edu/internet2/middleware/grouper/misc/GrouperObjectFinder.java classes/subject.base.properties classes/edu/internet2/middleware/grouper/cfg/dbConfig/ConfigFileName.java classes/edu/internet2/middleware/grouper/hibernate/GrouperContext.java classes/edu/internet2/middleware/grouper/j2ee/status/DaemonJobStatus.java
2019/10/20	grouper_v2_4_0_api_patch_76	GRP-2366: GrouperUtil.stripEnd should be GrouperUtil.stripSuffix	classes/edu/internet2/middleware/grouper/util/GrouperUtilElSafe.java classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowSettings.java classes/edu/internet2/middleware/grouper/app/reports/GrouperReportSettings.java classes/edu/internet2/middleware/grouper/app/grouperTypes/GrouperObjectTypesSettings.java classes/edu/internet2/middleware/grouper/util/GrouperUtil.java classes/edu/internet2/middleware/grouper/app/deprovisioning/GrouperDeprovisioningSettings.java classes/edu/internet2/middleware/grouper/app/provisioning/GrouperProvisioningSettings.java

2019/10/24	grouper_v2_4_0_api_patch_77	GRP-2370: Attribute queries with order by failing in hsql GRP-2310: Bulk Subject Lookup: Use grouper_members data first GRP-2364: morphString should support EL scriptlets GRP-2370: hsql attribute queries with order by GRP-2303: create screen to show attribute assignments from an attribute def name	classes/edu/internet2/middleware/grouperClientExt/edu/internet2/middleware/morphString/MorphPropertyFileUtils.java classes/grouperText/grouper.textNg.en.us.base.properties classes/edu/internet2/middleware/grouper/SubjectFinder.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3AttributeAssignDAO.java classes/edu/internet2/middleware/grouperClientExt/edu/internet2/middleware/morphString/MorphStringUtils.java classes/edu/internet2/middleware/grouperClient/util/GrouperClientLdapUtils.java classes/morphString.base.properties classes/edu/internet2/middleware/morphString/Morph.java classes/edu/internet2/middleware/grouperClientExt/edu/internet2/middleware/morphString/Morph.java classes/edu/internet2/middleware/grouper/internal/dao/MemberDAO.java classes/edu/internet2/middleware/grouperClient/discovery/DiscoveryClient.java classes/edu/internet2/middleware/grouperClientExt/edu/internet2/middleware/morphString/Encrypt.java classes/edu/internet2/middleware/morphString/MorphStringConfig.java classes/edu/internet2/middleware/grouper/misc/GrouperCheckConfig.java classes/grouper-loader.base.properties classes/edu/internet2/middleware/morphString/Encrypt.java classes/edu/internet2/middleware/grouperClient/config/ConfigPropertiesCascadeBase.java classes/edu/internet2/middleware/grouperClientExt/xmpp/GrouperClientXmppMain.java classes/edu/internet2/middleware/grouper/util/GrouperThreadLocalState.java classes/edu/internet2/middleware/grouperClientExt/edu/internet2/middleware/morphString/Crypto.java classes/edu/internet2/middleware/grouper/attr/finder/AttributeAssignFinder.java classes/morphString.example.properties classes/edu/internet2/middleware/grouper/hibernate/HibUtils.java classes/grouper.client.base.properties classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3MemberDAO.java classes/edu/internet2/middleware/grouper/app/loader/db/GrouperLoaderResultset.java classes/edu/internet2/middleware/grouperClientExt/edu/internet2/middleware/grouperClientMail/GrouperClientEmail.java classes/edu/internet2/middleware/grouperClient/ws/GrouperClientWs.java classes/edu/internet2/middleware/grouperClient/GrouperClient.java classes/edu/internet2/middleware/grouperClient/util/GrouperClientUtils.java

2019/10/28	grouper_v2_4_0_api_patch_78	GRP-2382: db config issues GRP-2383: database configuration can return no records and use default configuration	classes/edu/internet2/middleware/grouperClientExt/edu/internet2/middleware/morphString/Crypto.java classes/edu/internet2/middleware/grouper/cfg/dbConfig/ConfigItemMetadata.java classes/edu/internet2/middleware/grouper/cfg/GrouperConfig.java classes/edu/internet2/middleware/grouperClient/config/db/ConfigDatabaseLogic.java classes/edu/internet2/middleware/grouperClientExt/edu/internet2/middleware/morphString/Morph.java classes/edu/internet2/middleware/grouperClient/util/GrouperClientCommonUtils.java classes/grouper.base.properties classes/edu/internet2/middleware/grouperClient/config/ConfigPropertiesCascadeBase.java classes/edu/internet2/middleware/grouper/misc/GrouperCheckConfig.java classes/edu/internet2/middleware/grouper/registry/RegistryInitializeSchema.java classes/edu/internet2/middleware/grouperClientExt/edu/internet2/middleware/morphString/Encrypt.java classes/edu/internet2/middleware/grouper/cfg/dbConfig/GrouperConfigHibernate.java
2019/10/31	grouper_v2_4_0_api_patch_80	GRP-2390: grouper loader mistakenly uses db pool size of 5	classes/edu/internet2/middleware/grouperClient/config/db/ConfigDatabaseLogic.java classes/edu/internet2/middleware/grouperClient/config/ConfigPropertiesCascadeBase.java classes/edu/internet2/middleware/grouper/misc/GrouperCheckConfig.java classes/grouper.hibernate.base.properties classes/edu/internet2/middleware/grouper/app/loader/db/GrouperLoaderDb.java classes/grouper-loader.base.properties
2019/11/24	grouper_v2_4_0_api_patch_81	GRP-2444: schedule a CSV file to be SFTP'ed to server GRP-2429: add sftp support in grouper GRP-2414: decryptInFileIfFile stack overflow since there is a config GRP-2445: better error handling and logging in remedy integration GRP-2407: grouper client db access does not connect to the right database GRP-2402: Morph.decryptFromFileIfFile should accept slashes in passwords GRP-2400: grouperClient has problems with grouper client properties in database on startup GRP-2386: Grouper reports missing from diagnostics	classes/edu/internet2/middleware/grouper/app/file/GrouperSftpSession.java classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcTableSync.java classes/edu/internet2/middleware/grouperClient/util/GrouperClientCommonUtils.java classes/edu/internet2/middleware/grouper/app/loader/GrouperLoaderType.java classes/grouper.base.properties classes/edu/internet2/middleware/grouperClient/config/db/ConfigDatabaseLogic.java classes/edu/internet2/middleware/grouper/app/reports/GrouperCsvReportJob.java classes/grouper.client.base.properties classes/edu/internet2/middleware/grouper/app/file/GrouperSftpCallback.java classes/edu/internet2/middleware/grouperClient/util/GrouperClientUtils.java classes/edu/internet2/middleware/grouperClient/jdbc/GcDbAccess.java classes/edu/internet2/middleware/grouperClient/util/GrouperClientConfig.java classes/edu/internet2/middleware/grouper/j2ee/status/DiagnosticType.java classes/edu/internet2/middleware/grouper/app/reports/GrouperReportJob.java classes/edu/internet2/middleware/morphString/Morph.java classes/edu/internet2/middleware/grouper/Membership.java lib/grouper/jsch-0.1.55.jar classes/edu/internet2/middleware/grouper/app/file/GrouperSftp.java classes/edu/internet2/middleware/grouper/misc/GrouperStartup.java classes/edu/internet2/middleware/grouper/app/reports/GrouperReportConfigService.java classes/edu/internet2/middleware/grouper/misc/GrouperCheckConfig.java lib/grouper/commons-vfs2-2.4.1.jar classes/edu/internet2/middleware/grouper/util/GrouperUtil.java classes/grouper-loader.base.properties classes/edu/internet2/middleware/grouperClient/config/ConfigPropertiesCascadeBase.java
2019/11/25	grouper_v2_4_0_api_patch_82	GRP-2447: endless loop if morph password is in external file	classes/edu/internet2/middleware/grouper/misc/GrouperCheckConfig.java classes/edu/internet2/middleware/morphString/Morph.java

2019/11/28	grouper_v2_4_0_api_patch_83	GRP-2448: keeping subject.properties in database causes not to load jdbc source	classes/edu/internet2/middleware/grouper/misc/GrouperStartup.java
2019/12/23	grouper_v2_4_0_api_patch_84	GRP-2499: autopage in grouper box so long queries execute successfully GRP-2023: Modify USDU to allow saving attributes on members, ui, etc GRP-2412: Folder menu tree to use "..." to indicate a truncated list of items GRP-2478: error in obliterate stem if too many levels and delete pit GRP-2475: cursor paging to download large amounts of data GRP-2477: allow getMembers paging to get all members with no gaps from client GRP-2451: allow grouper box to have pem in database config GRP-2465: make grouper box user last longer and be configurable	classes/edu/internet2/middleware/grouper/app/usdu/UsduSettings.java classes/edu/internet2/middleware/grouper/internal/dao/MemberDAO.java classes/grouperText/grouper.textNg.en.us.base.properties classes/edu/internet2/middleware/grouperBox/GrouperBoxUser.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3PITStemDAO.java classes/grouper.cache.base.properties classes/edu/internet2/middleware/grouper/app/usdu/UsduJob.java classes/edu/internet2/middleware/grouperClient/ws/GrouperClientWs.java classes/edu/internet2/middleware/grouperBox/GrouperWsCommandsForBox.java classes/edu/internet2/middleware/grouperClient/api/GcGetMembers.java classes/edu/internet2/middleware/grouperBox/BoxOtherJob.java classes/edu/internet2/middleware/grouper/app/file/GrouperSftp.java classes/edu/internet2/middleware/grouperBox/GrouperBoxCommands.java classes/edu/internet2/middleware/grouper/app/usdu/SubjectResolutionAttributeValue.java classes/grouper-ui-ng.base.properties classes/edu/internet2/middleware/grouper/app/usdu/SubjectResolutionStat.java classes/grouper.base.properties classes/edu/internet2/middleware/grouper/misc/GrouperCheckConfig.java classes/edu/internet2/middleware/grouper/app/usdu/UsduService.java classes/edu/internet2/middleware/grouper/audit/AuditTypeBuiltin.java classes/grouper-loader.base.properties classes/edu/internet2/middleware/grouperBox/GrouperBoxFullRefresh.java classes/edu/internet2/middleware/grouper/app/usdu/UsduAttributeNames.java classes/edu/internet2/middleware/grouper/MemberFinder.java classes/edu/internet2/middleware/grouperClient/GrouperClient.java classes/edu/internet2/middleware/grouper/pit/PITStem.java classes/edu/internet2/middleware/grouperBox/GrouperBoxMessageConsumer.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3MemberDAO.java classes/edu/internet2/middleware/grouperBox/BoxEsbPublisher.java classes/edu/internet2/middleware/grouper/app/usdu/UsduSource.java
2019/12/23	grouper_v2_4_0_api_patch_85	GRP-2501: usdu screen needs to show more info, e.g. subject id, source id, identifier, name, description from members table	classes/grouperText/grouper.textNg.en.us.base.properties
2019/12/24	grouper_v2_4_0_api_patch_86	GRP-2503: grouperLoader job traceback: edu.internet2.middleware.grouper.exception.MemberDeleteException	classes/edu/internet2/middleware/grouper/MemberFinder.java

2020/01/02	grouper_v2_4_0_api_patch_87	GRP-2502: fix sorting and paging of usdu subject screen GRP-2504: new usduDaemon: subject resolution on miscellaneous page never completes GRP-2505: grouper csv properties query from wrong name GRP-2508: add USDU ui option to show deleted subjects or all unresolved and deleted subjects GRP-2509: allow user to delete subject in USDU screen GRP-2510: allow view subject to show unresolvable subjects GRP-2511: improve performance of USDU view subjects page GRP-2512: add subject id and source id to usdu ui results in list and find screens GRP-2513: usdu breadcrumbs not correct GRP-2514: 'days unresolved' is not calculated correctly on usdu ui GRP-2515: USDU no longer runs during 'daily report' GRP-2516: usdu is a weekly daemon and diagnostics fails since checks GRP-2517: client autopaging with no results can return null result	classes/edu/internet2/middleware/grouper/hibernate/HibUtils.java classes/edu/internet2/middleware/subject/LazySource.java classes/edu/internet2/middleware/subject/provider/JDBCSourceAdapter.java classes/grouperText/grouper.textNg.en.us.base.properties classes/edu/internet2/middleware/grouper/GrouperSourceAdapter.java classes/edu/internet2/middleware/grouper/SubjectFinder.java classes/edu/internet2/middleware/grouper/pit/PITAttributeDefNameSet.java classes/edu/internet2/middleware/grouper/app/usdu/UsduService.java classes/edu/internet2/middleware/grouper/internal/dao/AttributeAssignDAO.java classes/edu/internet2/middleware/grouper/app/usdu/UsduJob.java classes/edu/internet2/middleware/grouper/app/usdu/SubjectResolutionAttributeValue.java classes/edu/internet2/middleware/subject/provider/JDBCSourceAdapter2.java classes/edu/internet2/middleware/grouperClient/api/GcGetMembers.java classes/edu/internet2/middleware/grouperBox/GrouperWsCommandsForBox.java classes/edu/internet2/middleware/grouper/misc/GrouperReport.java classes/edu/internet2/middleware/subject/Source.java classes/edu/internet2/middleware/subject/provider/BaseSourceAdapter.java classes/edu/internet2/middleware/grouper/pit/PITAttributeAssignActionSet.java classes/edu/internet2/middleware/grouper/attr/finder/AttributeAssignValueFinder.java classes/edu/internet2/middleware/grouper/pit/PITGroupSet.java classes/edu/internet2/middleware/grouper/app/reports/GrouperCsvReportJob.java classes/edu/internet2/middleware/grouper/pit/PITMembership.java classes/edu/internet2/middleware/grouper/hibernate/BySqlStatic.java classes/edu/internet2/middleware/grouper/app/usdu/USDU.java classes/edu/internet2/middleware/grouper/MemberFinder.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3AttributeAssignDAO.java classes/grouper.base.properties classes/edu/internet2/middleware/grouper/changeLog/ChangeLogTempToEntity.java classes/edu/internet2/middleware/grouper/pit/PITRoleSet.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3MemberDAO.java classes/edu/internet2/middleware/grouper/pit/PITAttributeAssign.java classes/edu/internet2/middleware/grouper/attr/finder/AttributeAssignFinder.java

2020/01/09	grouper_v2_4_0_api_patch_88	GRP-2539: change "subject resolution" to "unresolvable subjects" in ui GRP-2368: deprovisioning report has duplicates on it. each group should GRP-2518: usdu screen doesnt show anything on "deleted" or "unresolved" but yes on "all". GRP-2521: usduDaemon: subject resolution stats: column heads no action GRP-2524: deprovisioning not reading correct base config (should be root GRP-2526: WS startup issue - message issued many times until WS query GRP-2527: various deprovisioning issues GRP-2535: all daemon jobs screen should filter by status GRP-2537: source getAllSubjectIds fails on json marshalling GRP-2539: change "subject resolution" to "unresolvable subjects" in ui GRP-2541: Miscellaneous >> All daemon jobs "Apply filter" button does not honor URL parameter value (Example: daemonJobsFilter=usduDaemon) GRP-2546: background color on recent activity not correct for wide rows	classes/edu/internet2/middleware/grouper/app/usdu/USDU.java classes/edu/internet2/middleware/subject/Source.java classes/edu/internet2/middleware/subject/provider/BaseSourceAdapter.java classes/grouperText/grouper.textNg.en.us.base.properties classes/edu/internet2/middleware/subject/LazySource.java classes/edu/internet2/middleware/grouper/util/GrouperUtil.java classes/edu/internet2/middleware/grouper/app/deprovisioning/GrouperDeprovisioningOverallConfiguration.java classes/edu/internet2/middleware/grouper/GrouperSourceAdapter.java classes/edu/internet2/middleware/grouper/app/deprovisioning/GrouperDeprovisioningEmailService.java classes/edu/internet2/middleware/grouper/app/usdu/UsduService.java classes/edu/internet2/middleware/subject/provider/JDBCSourceAdapter2.java classes/grouper-ui-ng.base.properties classes/edu/internet2/middleware/subject/provider/JDBCSourceAdapter.java
2020/01/10	grouper_v2_4_0_api_patch_89	GRP-2553: ui not compiling with patch	classes/edu/internet2/middleware/grouper/app/deprovisioning/GrouperDeprovisioningOverallConfiguration.java
2020/02/05	grouper_v2_4_0_api_patch_90	GRP-2571: allow import configuration to database from gsh GRP-2324: order by in loader queries causes an issue GRP-2551: Change log events for permission changes on subject GRP-2409: real time sql sync GRP-2565: Performance issues due to query changes in GRP-2117	classes/edu/internet2/middleware/grouper/app/tableSync/TableSyncOtherJob.java classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcTableSyncLog.java classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcGrouperSync.java classes/edu/internet2/middleware/grouperClient/jdbc/GcDbAccess.java classes/edu/internet2/middleware/grouper/app/loader/db/GrouperLoaderDb.java classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcTableSyncTableData.java classes/edu/internet2/middleware/grouper/changeLog/ChangeLogTypeBuiltin.java classes/edu/internet2/middleware/grouper/app/provisioning/GrouperProvisioningJob.java classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcTableSyncOutput.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3PITPermissionAllViewDAO.java classes/edu/internet2/middleware/grouper/app/provisioning/GrouperProvisioningAttributeNames.java classes/edu/internet2/middleware/grouperClient/jdbc/GcDbVersionable.java classes/edu/internet2/middleware/grouper/pit/PITGroupSet.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3DAO.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3PITMembershipViewDAO.java classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcGrouperSyncMember.java classes/grouperText/grouper.textNg.en.us.base.properties classes/edu/internet2/middleware/grouperClient/jdbc/GcPersistableClass.java classes/edu/internet2/middleware/grouper/misc/GrouperCheckConfig.java classes/edu/internet2/middleware/grouper/misc/SyncPITTables.java classes/edu/internet2/middleware/grouper/pit/PITAttributeAssignActionSet.java classes/edu/internet2/middleware/grouper/pit/PITMembership.java classes/edu/internet2/middleware/grouper/app/provisioning/GrouperProvisioningService.java classes/edu/internet2/middleware/grouperClient/util/GrouperClientUtils.java classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcGrouperSyncMembership.java classes/edu/internet2/middleware/grouper/changeLog/ChangeLogLabels.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3MembershipDAO.java classes/edu/internet2/middleware/grouper/internal

			/dao/PITPermissionAllViewDAO.java classes/edu/internet2/middleware/grouperClient /jdbc/tableSync/GcGrouperSyncGroup.java classes/edu/internet2/middleware/grouperClient /jdbc/tableSync/GcTableSyncTableBean.java classes/edu/internet2/middleware/grouper/misc /GrouperStartup.java classes/edu/internet2/middleware/grouper/audit /UserAuditQuery.java classes/edu/internet2/middleware/grouper/pit /PITAttributeDefNameSet.java classes/edu/internet2/middleware/grouper/app /loader/GrouperLoaderType.java classes/edu/internet2/middleware/grouperClient /jdbc/tableSync/GcTableSyncColumnMetadata. java classes/edu/internet2/middleware/grouperClient /jdbc/tableSync/GcTableSyncSubtype.java classes/edu/internet2/middleware/grouper/pit /PITRoleSet.java classes/edu/internet2/middleware/grouperClient /util/GrouperClientConfig.java classes/edu/internet2/middleware/grouperClient /jdbc/tableSync/GcGrouperSyncJobState.java classes/edu/internet2/middleware/grouperClient /jdbc/tableSync/GcTableSyncRowData.java classes/edu/internet2/middleware/grouperClient /jdbc/GcPersistableHelper.java classes/edu/internet2/middleware/grouper /changeLog/ChangeLogTempToEntity.java classes/edu/internet2/middleware/grouper/internal /dao/hib3/Hib3GroupSetDAO.java classes/edu/internet2/middleware/grouper/app /tableSync/TableSyncCreateTables.java classes/edu/internet2/middleware/grouperClient /jdbc/GcDbVersionableGenerate.java classes/edu/internet2/middleware/grouper/internal /dao/hib3/Hib3AttributeAssignDAO.java classes/edu/internet2/middleware/grouperClient /jdbc/tableSync/GcTableSyncTableMetadata.java classes/edu/internet2/middleware/grouper /changeLog/esb/consumer/EsbConsumer.java classes/edu/internet2/middleware/grouperClient /jdbc/tableSync/GcGrouperSyncJob.java classes/edu/internet2/middleware/grouperClient /jdbc/tableSync/GcTableSync.java classes/edu/internet2/middleware/grouper/internal /dao/hib3/Hib3RegistryDAO.java classes/grouper.client.base.properties classes/edu/internet2/middleware/grouper/app /provisioning/GrouperProvisioningSettings.java classes/edu/internet2/middleware/grouperClient /jdbc/tableSync/GcGrouperSyncLog.java classes/edu/internet2/middleware/grouper/app /tableSync/ProvisioningSyncResult.java classes/edu/internet2/middleware/grouperClient /jdbc/tableSync/GcTableSyncConfiguration.java classes/edu/internet2/middleware/grouper/ddl /GrouperDdlUtils.java classes/edu/internet2/middleware/grouper/pit /PITAttributeAssign.java classes/edu/internet2/middleware/grouper/app /tableSync/ProvisioningSyncIntegration.java classes/edu/internet2/middleware/grouper /changeLog/esb/consumer/EsbEvent.java classes/edu/internet2/middleware/grouperClient /jdbc/tableSync/GcGrouperSyncLogState.java classes/grouper-loader.base.properties
2020 /02/09	grouper_v2_ 4_0_api_pat ch_91	GRP-2586: error getting database connection from client	classes/edu/internet2/middleware/grouperClient /jdbc/tableSync/GcGrouperSyncGroup.java classes/edu/internet2/middleware/grouper/app /tableSync/TableSyncCreateTables.java classes/edu/internet2/middleware/grouper/app /loader/db/GrouperLoaderDb.java classes/edu/internet2/middleware/grouperClient /jdbc/tableSync/GcGrouperSyncMember.java classes/grouper.client.base.properties classes/grouper.hibernate.base.properties classes/edu/internet2/middleware/grouperClient /jdbc/tableSync/GcGrouperSyncJob.java classes/edu/internet2/middleware/grouperClient /jdbc/tableSync/GcGrouperSyncMembership.java

2020/02/13	grouper_v2_4_0_api_patch_92	GRP-2591: sql sync is doing updates for all rows and not comparing numbers across different database vendors	classes/edu/internet2/middleware/grouper/app/loader/OtherJobBase.java classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcTableSyncOutput.java classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcTableSync.java classes/edu/internet2/middleware/grouper/app/tableSync/TableSyncOtherJob.java classes/edu/internet2/middleware/grouperClient/jdbc/GcDbAccess.java
2020/02/13	grouper_v2_4_0_api_patch_93	GRP-2593: need more batching on large SQL changes in the sql sync	classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcTableSyncSubtype.java
2020/03/24	grouper_v2_4_0_api_patch_94	GRP-2143: rules need effective memberships calculated and change log consumers and daemons GRP-2617: custom ui for access analysis and join/leave GRP-2596: decimal and integers should be compared better in sql sync GRP-2602: grouper duo admin has wrong job name in hib3 loader log GRP-2606: rabbitmq messages sometimes not being received GRP-2608: provisioning scalable dao GRP-2615: Ignore high churn attribute defs GRP-2593: need more batching on large SQL changes in the sql sync	classes/edu/internet2/middleware/grouper/MembershipFinder.java classes/edu/internet2/middleware/grouper/changeLog/esb/consumer/EsbEvent.java classes/edu/internet2/middleware/grouperClient/jdbc/GcDbAccess.java classes/edu/internet2/middleware/grouper/app/tableSync/TableSyncProvisioningConsumer.java classes/edu/internet2/middleware/grouper/changeLog/ChangeLogProcessorMetadata.java classes/edu/internet2/middleware/grouper/SubjectFinder.java classes/edu/internet2/middleware/grouperClient/util/GrouperClientUtils.java classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcGrouperSyncMember.java classes/edu/internet2/middleware/grouper/ui/customUi/CustomUiTextResult.java classes/edu/internet2/middleware/grouper/hooks/examples/GrouperAttributeAssignValueRulesConfigHook.java classes/edu/internet2/middleware/grouper/messaging/GrouperBuiltinMessagingSystem.java classes/edu/internet2/middleware/grouper/util/GenerateFieldConstants.java classes/edu/internet2/middleware/grouper/internal/dao/MessageDAO.java classes/edu/internet2/middleware/grouper/hibernate/ByObjectStatic.java classes/edu/internet2/middleware/grouper/hibernate/ByObject.java classes/edu/internet2/middleware/grouper/ui/customUi/CustomUiGrouper.java classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcTableSyncOutput.java classes/edu/internet2/middleware/grouper/externalSubjects/ExternalSubjectAttrFramework.java classes/edu/internet2/middleware/grouperDuo/GrouperDuoAdminFullRefresh.java classes/edu/internet2/middleware/grouper/audit/UserAuditQuery.java classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcGrouperSyncGroup.java classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcGrouperSyncMemberDao.java classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcGrouperSyncJob.java classes/edu/internet2/middleware/grouper/app/tableSync/TableSyncOtherJob.java classes/edu/internet2/middleware/grouper/registry/RegistryReset.java classes/edu/internet2/middleware/grouperClientExt/xmpp/EsbEvent.java classes/edu/internet2/middleware/grouper/app/provisioning/GrouperProvisioningProcessingResult.java classes/edu/internet2/middleware/grouper/app/tableSync/TableSyncCreateTables.java classes/edu/internet2/middleware/grouper/ui/customUi/CustomUiSql.java classes/edu/internet2/middleware/grouper/rules/RuleCheckType.java classes/edu/internet2/middleware/grouper/ui/customUi/CustomUiUserQueryDisplayBean.java classes/edu/internet2/middleware/grouperMessagingRabbitmq/GrouperMessagingRabbitmqSystem.java classes/edu/internet2/middleware/grouper/esb/listener/ProvisioningSyncConsumer.java classes/edu/internet2/middleware/grouper/app/tableSync/ProvisioningSyncResult.java

classes/edu/internet2/middleware/grouper
/changeLog/esb/consumer
/ProvisioningMembershipMessage.java
classes/edu/internet2/middleware/grouper/ui
/customUi/CustomUiEngine.java
classes/edu/internet2/middleware/grouperClient
/jdbc/tableSync/GcGrouperSyncHeartbeat.java
classes/edu/internet2/middleware/grouperClient
/jdbc/GcSqlAssignPrimaryKey.java
classes/edu/internet2/middleware/grouper
/changeLog/ChangeLogTypeBuiltin.java
classes/edu/internet2/middleware/grouper
/changeLog/esb/consumer/EsbConsumer.java
classes/edu/internet2/middleware/grouper/app
/loader/OtherJobScript.java
classes/edu/internet2/middleware/grouperClient
/jdbc/tableSync/GcGrouperSyncMembership.java
classes/edu/internet2/middleware/grouper/ui
/customUi/CustomUiUtil.java
classes/edu/internet2/middleware/grouper
/changeLog/ChangeLogHelper.java
classes/edu/internet2/middleware/grouper/app
/provisioning/GrouperProvisioningService.java
classes/edu/internet2/middleware/grouperClient
/jdbc/tableSync/GcTableSyncSubtype.java
classes/edu/internet2/middleware/grouper/cfg/text
/GrouperTextContainer.java
classes/edu/internet2/middleware/grouper/ui
/customUi/CustomUiTextConfigBean.java
classes/edu/internet2/middleware/grouper
/changeLog/esb/consumer/EsbEventContainer.
java
classes/edu/internet2/middleware/grouper/ui
/customUi/CustomUiUserQueryConfigBean.java
classes/edu/internet2/middleware/grouper/ui
/customUi/CustomUiVariableType.java
classes/edu/internet2/middleware/grouper/ui
/customUi/CustomUiAzure.java
classes/edu/internet2/middleware/grouperClient
/jdbc/tableSync/GcGrouperSyncDao.java
classes/edu/internet2/middleware/grouper/ui
/customUi/CustomUiExpressionLanguage.java
classes/edu/internet2/middleware/grouper/app
/reports/GrouperReportConfigAttributeNames.java
classes/edu/internet2/middleware/grouper
/changeLog/esb/consumer/ProvisioningMessage.
java
classes/edu/internet2/middleware/grouper/util
/GrouperEmailUtils.java
classes/edu/internet2/middleware/grouper/ui
/customUi/CustomUiUserQueryType.java
classes/edu/internet2/middleware/grouperClient
/jdbc/tableSync/GcGrouperSync.java
classes/edu/internet2/middleware/grouper/attr
/finder/AttributeDefFinder.java
classes/edu/internet2/middleware/grouper/app
/tableSync/ProvisioningSyncIntegration.java
classes/edu/internet2/middleware/grouperClient
/jdbc/tableSync/GcGrouperSyncMembershipDao.
java
classes/edu/internet2/middleware/grouper/attr
/finder/AttributeAssignValueFinder.java
classes/edu/internet2/middleware/grouper
/hibernate/GrouperContext.java
classes/edu/internet2/middleware/grouperClient
/jdbc/tableSync/GcGrouperSyncLogDao.java
classes/edu/internet2/middleware/grouper/ui
/customUi/CustomUiContext.java
classes/edu/internet2/middleware/grouper/app
/loader/db/GrouperLoaderResultset.java
classes/grouper.base.properties
classes/edu/internet2/middleware/grouper
/changeLog/esb/consumer/EsbEventType.java
classes/edu/internet2/middleware/grouperClient
/jdbc/tableSync/GcTableSyncConfiguration.java
classes/edu/internet2/middleware/grouper/rules
/RuleEngine.java
classes/edu/internet2/middleware/grouperClient
/jdbc/tableSync/GcTableSyncTableData.java
classes/edu/internet2/middleware/grouper/app
/workflow
/GrouperWorkflowInstanceAttributeNames.java
classes/edu/internet2/middleware/grouper/app
/loader/db/Hib3GrouperLoaderLog.java
classes/edu/internet2/middleware/grouper
/changeLog/esb/consumer/RuleConsumer.java
classes/edu/internet2/middleware/grouperClient
/jdbc/tableSync/GcTableSync.java

			classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcGrouperSyncGroupDao.java classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcTableSyncTableMetadata.java classes/edu/internet2/middleware/grouper/misc/GrouperCheckConfig.java classes/edu/internet2/middleware/grouper/app/workflow/GrouperWorkflowConfigAttributeNames.java classes/edu/internet2/middleware/grouper/subj/SubjectHelper.java classes/edu/internet2/middleware/grouper/internal/dao/hib3/Hib3MessageDAO.java classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcGrouperSyncLog.java classes/edu/internet2/middleware/grouper/changeLog/ChangeLogLabels.java classes/edu/internet2/middleware/grouper/app/usdu/UsduAttributeNames.java classes/edu/internet2/middleware/grouper/esb/listener/EsbListenerBase.java classes/grouperText/grouper.textNg.en.us.base.properties classes/edu/internet2/middleware/grouper/ui/customUi/CustomUiUserQueryBase.java classes/edu/internet2/middleware/grouper/cfg/GrouperConfig.java classes/edu/internet2/middleware/grouper/esb/listener/ProvisioningSyncConsumerResult.java classes/edu/internet2/middleware/grouper/Group.java classes/edu/internet2/middleware/grouper/ui/customUi/CustomUiLdap.java classes/edu/internet2/middleware/grouper/util/GrouperUtil.java classes/edu/internet2/middleware/grouper/ui/customUi/CustomUiAttributeNames.java classes/edu/internet2/middleware/grouperClient/jdbc/tableSync/GcGrouperSyncJobDao.java classes/edu/internet2/middleware/grouper/rules/RuleDefinition.java classes/edu/internet2/middleware/grouper/ui/customUi/CustomUiTextType.java classes/edu/internet2/middleware/grouper/app/gsh/GrouperGroovysh.java classes/grouper-loader.base.properties
2020/03/24	grouper_v2_4_0_api_patch_95	GRP-2618: esb event doesnt like unexpected events	classes/edu/internet2/middleware/grouper/changeLog/esb/consumer/EsbConsumer.java
2020/03/24	grouper_v2_4_0_api_patch_96	GRP-2619: esb consumer not registering successes correctly	classes/edu/internet2/middleware/grouper/changeLog/ChangeLogHelper.java classes/edu/internet2/middleware/grouper/changeLog/esb/consumer/EsbConsumer.java classes/edu/internet2/middleware/grouper/esb/listener/EsbListenerBase.java
UI patches			
2018/09/06	grouper_v2_4_0_ui_patch_0	GRP-1881: Change away from MyServices widget and then can't get it back indexColumnMenu.jsp GRP-1857: Specify Subject Sources for Grouper UI (Web) GRP-1872: Value type is not saved when creating a new attribute definition GRP-1884: help.jsp not working in 2.4	files/WEB-INF/grouperUi2/index/indexColumnMenu.jsp classes/grouperText/help.fr.html classes/grouper-ui.base.properties classes/grouperText/grouper.text.en.us.base.properties files/WEB-INF/grouperUi2/attributeDef/newAttributeDef.jsp classes/grouperText/help.en.html classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Group.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2AttributeDef.java files/WEB-INF/grouperUi2/index/help.jsp

2018/10/12	grouper_v2_4_0_ui_patch_1	GRP-1826: Disable/Enable Loader job	files/WEB-INF/grouperUi2/index/miscellaneous.jsp files/WEB-INF/grouperUi2/group/grouperLoaderMoreActionsButtonContents.jsp classes/edu/internet2/middleware/grouper/ui/GrouperUiFilter.java files/WEB-INF/grouperUi2/group/grouperLoaderGroupTab.jsp classes/grouper-ui.base.properties classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/AdminContainer.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2GrouperLoader.java files/WEB-INF/grouperUi2/admin/adminDaemonJobs.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GrouperLoaderContainer.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Admin.java classes/grouperText/grouper.text.en.us.base.properties classes/edu/internet2/middleware/grouper/grouperUi/beans/api/GuiDaemonJob.java files/WEB-INF/grouperUi2/admin/adminDaemonJobsContents.jsp
2018/11/02	grouper_v2_4_0_ui_patch_2	GRP-1880: Develop New Template Wizard GRP-1857: Specify Subject Sources for Grouper UI (Web) GRP-1943: add debugging information in UI search	classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GrouperNewServiceTemplateLogic.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Main.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/ServiceAction.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GrouperTierStructureLogic.java files/WEB-INF/grouperUi2/stem/stemTemplate.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/ServiceActionArgument.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GrouperRequestContainer.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/StemTemplateContainer.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/ServiceActionType.java classes/grouperText/grouper.text.en.us.base.properties files/WEB-INF/grouperUi2/stem/stemMoreActionsButtonContents.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/TemplateContainerConfig.java files/WEB-INF/grouperUi2/stem/stemNewTemplate.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GrouperTemplateLogicBase.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Template.java
2018/11/05	grouper_v2_4_0_ui_patch_3	GRP-1941: LDAP loader - parsing complex attribute values GRP-1877: LDAP_GROUPS_FROM_ATTRIBUTES should utilize extra attributes to construct display name	files/WEB-INF/grouperUi2/group/grouperLoaderEditGroupTab.jsp files/WEB-INF/grouperUi2/group/grouperLoaderGroupTab.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GrouperLoaderContainer.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2GrouperLoader.java classes/grouperText/grouper.text.en.us.base.properties
2018/11/15	grouper_v2_4_0_ui_patch_4	GRP-1950: Minor improvements to daemon jobs page	files/WEB-INF/grouperUi2/admin/adminDaemonJobs.jsp classes/grouperText/grouper.text.en.us.base.properties classes/grouper-ui.base.properties classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/AdminContainer.java classes/edu/internet2/middleware/grouper/grouperUi/beans/api/GuiDaemonJob.java files/WEB-INF/grouperUi2/admin/adminDaemonJobsContents.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Admin.java

2018/12/12	grouper_v2_4_0_ui_patch_5	GRP-1965: allow bulk remove members from group by uploading a list	files/WEB-INF/grouperUi2/groupImport/groupImport.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2GroupImport.java classes/grouperText/grouper.text.en.us.base.properties
2019/01/05	grouper_v2_4_0_ui_patch_6	GRP-1963: grouper configuration metadata	classes/grouper-ui.base.properties
2019/01/05	grouper_v2_4_0_ui_patch_7	GRP-1950: Minor improvements to daemon jobs page GRP-1974: Add role inheritance to new ui	classes/grouperText/grouper.text.en.us.base.properties
2019/01/07	grouper_v2_4_0_ui_patch_8	GRP-1950: Minor improvements to daemon jobs page GRP-1974: Add role inheritance to new ui GRP-1973: Use group name as routing key to rabbitmq GRP-1963: grouper configuration metadata GRP-1920: Startup doesn't print some config properties defined outside the default properties files GRP-1957: Logout redirectToUrl not working GRP-1944: Assign grouper types to objects	classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2GrouperLoader.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2GrouperObjectTypes.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Admin.java files/WEB-INF/grouperUi2/group/groupHeader.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/api/objectTypes/GuiGrouperObjectTypesAttributeValue.java files/WEB-INF/grouperUi2/admin/adminDaemonJobsContents.jsp files/WEB-INF/grouperUi2/grouperObjectTypes/grouperObjectTypesGroupSettingsView.jsp files/WEB-INF/grouperUi2/grouperObjectTypes/objectTypeObjectSettingsView.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Deprovisioning.java files/WEB-INF/grouperUi2/grouperObjectTypes/grouperObjectTypesFolderMoreActionsButtonContents.jsp files/WEB-INF/grouperUi2/stem/stemHeader.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Stem.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/ObjectTypeContainer.java files/WEB-INF/grouperUi2/grouperObjectTypes/grouperObjectTypesFolderSettingsView.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GrouperRequestContainer.java files/WEB-INF/grouperUi2/admin/adminDaemonJobs.jsp files/WEB-INF/grouperUi2/group/groupMoreActionsButtonContents.jsp files/WEB-INF/grouperUi2/grouperObjectTypes/grouperObjectTypeObjectSettingsEditHelper.jsp files/WEB-INF/grouperUi2/grouperObjectTypes/grouperObjectTypesGroupSettingsEdit.jsp files/WEB-INF/grouperUi2/role/roleInheritance.jsp files/WEB-INF/grouperUi2/admin/adminDaemonJobsViewLogsResults.jsp files/WEB-INF/grouperUi2/admin/adminDaemonJobsViewLogs.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/RoleInheritanceContainer.java classes/edu/internet2/middleware/grouper/grouperUi/beans/api/GuiHib3GrouperLoaderLog.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Role.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Group.java files/WEB-INF/grouperUi2/grouperObjectTypes/grouperObjectTypesFolderSettingsEdit.jsp files/WEB-INF/grouperUi2/grouperObjectTypes/grouperObjectTypesGroupMoreActionsButtonContents.jsp files/WEB-INF/grouperUi2/group/grouperLoaderEditGroupTab.jsp files/WEB-INF/grouperUi2/stem/stemMoreActionsButtonContents.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/Logout.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/AdminContainer.java
2019/01/28	grouper_v2_4_0_ui_patch_9	GRP-2000: null pointer on viewing group as non root	classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2GrouperLoader.java

2019/02/07	grouper_v2_4_0_ui_patch_10	GRP-2006: Membership UI advanced options	classes/grouperText/grouper.text.en.us.base.properties
2019/02/07	grouper_v2_4_0_ui_patch_11	GRP-2006: Membership UI advanced options	classes/edu/internet2/middleware/grouper/grouperUi/beans/api/GuiMembershipContainer.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/MembershipGuiContainer.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Membership.java classes/edu/internet2/middleware/grouper/grouperUi/beans/api/GuiMembershipSubjectContainer.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GroupContainer.java files/WEB-INF/grouperUi2/group/groupContents.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/api/GuiPITMembershipView.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Group.java files/WEB-INF/grouperUi2/group/viewGroup.jsp
2019/02/16	grouper_v2_4_0_ui_patch_12	GRP-1966: UI Visualization	files/grouperExternal/public/assets/css/grouperUi2.css classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/VisualizationContainer.java classes/grouperText/grouper.text.en.us.base.properties files/grouperExternal/public/assets/js/viz.v1.8.2.js files/grouperExternal/public/assets/js/grouperVisualization.js files/grouperExternal/public/assets/css/c3.min.css classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Visualization.java files/WEB-INF/grouperUi2/stem/stemMoreActionsButtonContents.jsp files/grouperExternal/public/assets/js/d3-graphviz.v2.6.1.min.js files/WEB-INF/grouperUi2/assetsJsp/commonHead.jsp files/WEB-INF/grouperUi2/group/groupMoreActionsButtonContents.jsp files/WEB-INF/grouperUi2/group/groupVisualization.jsp files/WEB-INF/grouperUi2/visualization/visualizationMain.jsp files/WEB-INF/grouperUi2/stem/stemVisualization.jsp files/grouperExternal/public/assets/js/c3.min.js files/WEB-INF/grouperUi2/subject/subjectVisualization.jsp files/WEB-INF/grouperUi2/subject/subjectMoreActionsButtonContents.jsp files/grouperExternal/public/assets/js/d3.min.js classes/edu/internet2/middleware/grouper/grouperUi/beans/preferences/UiV2VisualizationPreference.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GrouperRequestContainer.java
2019/02/16	grouper_v2_4_0_ui_patch_12	GRP-1972: Build visualization graph of object relationships	classes/grouperText/grouper.text.en.us.base.properties

2019/02/16	grouper_v2_4_0_ui_patch_13	GRP-1972: Build visualization graph of object relationships	files/grouperExternal/public/assets/js/c3.min.js files/grouperExternal/public/assets/js/viz.v1.8.2.js files/WEB-INF/grouperUi2/assetsJsp/commonHead.jsp files/WEB-INF/grouperUi2/stem/stemMoreActionsButtonContents.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/preferences/UiV2VisualizationPreference.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GrouperRequestContainer.java files/grouperExternal/public/assets/js/d3-graphviz.v2.6.1.min.js files/grouperExternal/public/assets/js/d3.min.js files/WEB-INF/grouperUi2/group/groupVisualization.jsp files/grouperExternal/public/assets/css/grouperUi2.css files/grouperExternal/public/assets/js/grouperVisualization.js files/WEB-INF/grouperUi2/visualization/visualizationMain.jsp files/WEB-INF/grouperUi2/subject/subjectVisualization.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/VisualizationContainer.java files/WEB-INF/grouperUi2/stem/stemVisualization.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2GrouperLoader.java files/WEB-INF/grouperUi2/group/groupMoreActionsButtonContents.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Visualization.java files/grouperExternal/public/assets/css/c3.min.css files/WEB-INF/grouperUi2/subject/subjectMoreActionsButtonContents.jsp
2019/02/17	grouper_v2_4_0_ui_patch_14	GRP-2036: need to escape object names, and test with javascript in display name, name, and description	files/grouperExternal/public/assets/js/grouperVisualization.js files/WEB-INF/grouperUi2/visualization/visualizationMain.jsp
2019/03/05	grouper_v2_4_0_ui_patch_15	GRP-2003: add obliterate stem to ui	classes/grouperText/grouper.text.en.us.base.properties
2019/03/05	grouper_v2_4_0_ui_patch_16	GRP-2003: add obliterate stem to ui	classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/StemDeleteContainer.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GrouperRequestContainer.java files/WEB-INF/grouperUi2/stem/stemDelete.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Stem.java
2019/03/17	grouper_v2_4_0_ui_patch_17	GRP-2064: cannot add self in grouper, separation of duties	classes/grouperText/grouper.text.en.us.base.properties
2019/03/17	grouper_v2_4_0_ui_patch_18	GRP-2064: cannot add self in grouper, separation of duties	classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Group.java files/WEB-INF/grouperUi2/group/groupHeader.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GroupContainer.java files/WEB-INF/grouperUi2/group/groupEdit.jsp
2019/03/19	grouper_v2_4_0_ui_patch_19	GRP-2062: Show and filter group memberships under a folder	classes/grouperText/grouper.text.en.us.base.properties

2019/03/19	grouper_v2_4_0_ui_patch_20	GRP-2062: Show and filter group memberships under a folder	files/WEB-INF/grouperUi2/stem/stemTemplate.jsp files/WEB-INF/grouperUi2/stem/stemAttestationSettings.jsp files/WEB-INF/grouperUi2/grouperObjectTypes/grouperObjectTypesFolderSettingsEdit.jsp classes/edu/internet2/middleware/grouperUi/beans/api/GuiPITMembershipView.java files/WEB-INF/grouperUi2/stem/groupMembershipsInFolderContents.jsp classes/edu/internet2/middleware/grouperUi/beans/ui/StemContainer.java files/WEB-INF/grouperUi2/deprovisioning/deprovisioningFolderSettingsView.jsp files/WEB-INF/grouperUi2/stem/groupMembershipsInFolder.jsp files/WEB-INF/grouperUi2/grouperObjectTypes/grouperObjectTypesFolderSettingsView.jsp classes/edu/internet2/middleware/grouper/ui/util/GrouperUiUtils.java files/WEB-INF/grouperUi2/deprovisioning/deprovisioningFolderReport.jsp files/WEB-INF/grouperUi2/deprovisioning/deprovisioningFolderSettingsEdit.jsp classes/edu/internet2/middleware/grouperUi/beans/api/GuiGroup.java files/WEB-INF/grouperUi2/stem/stemAttestationGroups.jsp files/WEB-INF/grouperUi2/stem/stemMoreTab.jsp files/WEB-INF/grouperUi2/stem/stemAttestation.jsp files/WEB-INF/grouperUi2/stem/viewStem.jsp files/WEB-INF/grouperUi2/stem/stemVisualization.jsp files/WEB-INF/grouperUi2/stem/stemPrivileges.jsp classes/edu/internet2/middleware/grouperUi/serviceLogic/UiV2Stem.java files/WEB-INF/grouperUi2/stem/thisFoldersPrivilegesInheritedFromFolders.jsp classes/edu/internet2/middleware/grouperUi/beans/ui/GroupContainer.java files/WEB-INF/grouperUi2/stem/privilegesInheritedToObjects.jsp
2019/03/22	grouper_v2_4_0_ui_patch_21	GRP-2048: Improve save/refresh behavior of stem navigator tree	classes/grouper-ui.base.properties classes/Owasp.CsrfGuard.overlay.properties

2019/03/22	grouper_v2_4_0_ui_patch_22	GRP-2048: Improve save/refresh behavior of stem navigator tree	classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/IndexContainer.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2AttributeDef.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2AttributeDefName.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Group.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Main.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Stem.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Visualization.java classes/edu/internet2/middleware/grouper/j2ee/GrouperUiRestServlet.java classes/edu/internet2/middleware/grouper/ui/util/GrouperUiUtils.java files/WEB-INF/grouperUi2/assetsJsp/commonBottom.jsp files/WEB-INF/grouperUi2/attributeDef/viewAttributeDef.jsp files/WEB-INF/grouperUi2/attributeDefAction/attributeDefActionsPage.jsp files/WEB-INF/grouperUi2/deprovisioning/deprovisioningAttributeDefSettingsEdit.jsp files/WEB-INF/grouperUi2/deprovisioning/deprovisioningAttributeDefSettingsView.jsp files/WEB-INF/grouperUi2/deprovisioning/deprovisioningFolderSettingsEdit.jsp files/WEB-INF/grouperUi2/deprovisioning/deprovisioningFolderSettingsView.jsp files/WEB-INF/grouperUi2/deprovisioning/deprovisioningGroupSettingsEdit.jsp files/WEB-INF/grouperUi2/group/viewGroup.jsp files/WEB-INF/grouperUi2/grouperObjectTypes/grouperObjectTypesFolderSettingsEdit.jsp files/WEB-INF/grouperUi2/grouperObjectTypes/grouperObjectTypesFolderSettingsView.jsp files/WEB-INF/grouperUi2/grouperObjectTypes/grouperObjectTypesGroupSettingsEdit.jsp files/WEB-INF/grouperUi2/index/index.jsp files/WEB-INF/grouperUi2/stem/stemAttestation.jsp files/WEB-INF/grouperUi2/stem/stemVisualization.jsp files/WEB-INF/grouperUi2/stem/viewStem.jsp files/grouperExternal/public/assets/js/grouperUi.js
2019/04/23	grouper_v2_4_0_ui_patch_23	GRP-2109: allow templates to be generated by gsh GRP-2108: allow hooks to manipulate the UI	classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GrouperRequestContainer.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GrouperNewServiceTemplateLogic.java classes/edu/internet2/middleware/grouper/ui/hooks/GrouperUiHookShim.java classes/edu/internet2/middleware/grouperClient/config/GrouperUiTextConfig.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/TextContainer.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Template.java files/grouperExternal/public/assets/js/grouperUi.js classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GrouperTemplateLogicBase.java
2019/05/08	grouper_v2_4_0_ui_patch_24	GRP-2119: do not show all types on "view types" screen GRP-2120: unassigning types should be easier... maybe an X next to it?	classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2GrouperObjectTypes.java classes/grouperText/grouper.text.en.us.base.properties files/WEB-INF/grouperUi2/grouperObjectTypes/grouperObjectTypesGroupSettingsView.jsp files/WEB-INF/grouperUi2/grouperObjectTypes/grouperObjectTypesFolderSettingsView.jsp files/WEB-INF/grouperUi2/grouperObjectTypes/objectTypeObjectSettingsView.jsp
2019/05/09	grouper_v2_4_0_ui_patch_25	GRP-2131: import subjects broke with other patch	classes/edu/internet2/middleware/grouper/ui/util/GrouperUiUtils.java

2019/05/11	grouper_v2_4_0_ui_patch_26	GRP-2129: grouper types should have tooltips that describe the type GRP-2135: the order of GDG types should be as in the drop down for editing	classes/grouperText/grouper.text.en.us.base.properties classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GrouperTierStructureLogic.java files/WEB-INF/grouperUi2/grouperObjectTypes/grouperObjectTypeObjectSettingsEditHelper.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/api/objectTypes/GuiGrouperObjectTypesAttributeValue.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/ObjectTypeContainer.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2GrouperObjectTypes.java files/WEB-INF/grouperUi2/grouperObjectTypes/objectTypeObjectSettingsView.jsp
2019/05/13	grouper_v2_4_0_ui_patch_27	GRP-2079: add local entity support in new ui	files/WEB-INF/grouperUi2/subject/thisSubjectsStemPrivileges.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Visualization.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/SubjectContainer.java files/WEB-INF/grouperUi2/subject/viewSubject.jsp files/WEB-INF/grouperUi2/localEntity/localEntityPrivilegeContents.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/api/GuiGroup.java classes/grouper-ui.base.properties files/grouperExternal/public/assets/js/grouperUi.js classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Subject.java files/WEB-INF/grouperUi2/subject/thisSubjectsInheritedPrivilegesInvolvement.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2LocalEntity.java files/WEB-INF/grouperUi2/stem/stemMoreActionsButtonContents.jsp files/WEB-INF/grouperUi2/localEntity/localEntityDelete.jsp files/WEB-INF/grouperUi2/subject/subjectViewAudits.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Group.java files/WEB-INF/grouperUi2/group/groupHeader.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/tree/DojoTreeItemChild.java classes/edu/internet2/middleware/grouper/grouperUi/beans/api/GuiEntity.java files/WEB-INF/grouperUi2/subject/thisSubjectsGroupPrivileges.jsp classes/grouperText/grouper.text.en.us.base.properties files/WEB-INF/grouperUi2/subject/subjectVisualization.jsp files/WEB-INF/grouperUi2/localEntity/newLocalEntity.jsp files/WEB-INF/grouperUi2/localEntity/localEntityEdit.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/api/GuiObjectBase.java files/WEB-INF/grouperUi2/subject/subjectMoreActionsButtonContents.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Main.java files/WEB-INF/grouperUi2/subject/thisSubjectsAttributeDefPrivileges.jsp files/WEB-INF/grouperUi2/localEntity/localEntityPrivileges.jsp files/WEB-INF/grouperUi2/group/groupDelete.jsp files/WEB-INF/grouperUi2/subject/subjectHeader.jsp
2019/05/14	grouper_v2_4_0_ui_patch_28	GRP-2139: lite ui cant be used when installed on top of 2.4 due to get request not allowed	classes/Owasp.CsrfGuard.overlay.properties classes/edu/internet2/middleware/grouper/j2ee/GrouperUiRestServlet.java

2019/05/29	grouper_v2_4_0_ui_patch_29	GRP-2128: Detect object types based on folders' extensions and allow auto assigning object types GRP-2134: Add types when creating folders via templates GRP-2155: types on folders should have checkboxes so its optional GRP-2156: If a checkbox is unchecked on the template form and another action requires it, make it a no-op	classes/edu/internet2/middleware/grouper/grouperUi/beans/api/objectTypes/GuiStemObjectType.java files/WEB-INF/grouperUi2/grouperObjectTypes/grouperObjectTypesFolderAutoAssign.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GrouperNewServiceTemplateLogic.java classes/grouperText/grouper.text.en.us.base.properties classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/ObjectTypeContainer.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2GrouperObjectTypes.java files/WEB-INF/grouperUi2/grouperObjectTypes/grouperObjectTypesFolderMoreActionsButtonContents.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/ServiceActionType.java classes/edu/internet2/middleware/grouper/grouperUi/beans/api/GuiObjectBase.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GrouperTierStructureLogic.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GrouperTemplateLogicBase.java classes/edu/internet2/middleware/grouper/grouperUi/beans/api/objectTypes/GuiGrouperObjectTypesAttributeValue.java
2019/05/31	grouper_v2_4_0_ui_patch_30	GRP-2173: cant view entity due to local entity patch ui #27	files/WEB-INF/grouperUi2/subject/subjectHeader.jsp
2019/06/03	grouper_v2_4_0_ui_patch_31	GRP-2102: Visualization fixes for 2.4 (roll-up task)	classes/grouperText/grouper.text.en.us.base.properties
2019/06/03	grouper_v2_4_0_ui_patch_32	GRP-2102: Visualization fixes for 2.4 (roll-up task) - GRP-2035: visualization of subject should show direct group membership for that subject - GRP-2071: Add visualization option for full screen - GRP-2091: grouper visualization fails on circular references - GRP-2092: add key/legend to visualization - GRP-2094: visualization: simple (non-listOfGroups) loaded groups should show membership count - GRP-2095: visualization: label loader groups, ref, basis, policy, composites - GRP-2096: visualization: if showing members, show the number and "members", e.g. "125 members" - GRP-2097: visualization: option to include groups in counts - GRP-2098: visualization: add option to show direct and total counts - GRP-2099: visualization: take tooltip off entire image - GRP-2103: UI visualization fix dot output syntax errors - GRP-2107: visualization svg not working - GRP-2150: Visualization change arrow directions for group memberships - GRP-2152: visualization: change arrow for simple loader from loader color to membership	classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Visualization.java files/WEB-INF/grouperUi2/visualization/visualizationMain.jsp files/WEB-INF/grouperUi2/assetsJsp/commonHead.jsp files/grouperExternal/public/assets/js/grouperVisualization.js files/grouperExternal/public/assets/css/grouperUi2.css classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/VisualizationContainer.java classes/edu/internet2/middleware/grouper/grouperUi/beans/preferences/UiV2VisualizationPreference.java
2019/06/03	grouper_v2_4_0_ui_patch_33	GRP-2177: null string properties in java cause viz issues, and if cant read loader attributes	files/grouperExternal/public/assets/js/grouperVisualization.js
2019/06/04	grouper_v2_4_0_ui_patch_34	GRP-2176: move grouper externalized text from ui to api GRP-2182: add javax servlet api to ui and ws so gsh works completely	classes/edu/internet2/middleware/grouper/ui/GrouperNavResourceBundle.java lib/javax.servlet-api-3.1.0.jar classes/edu/internet2/middleware/grouper/ui/GrouperUiFilter.java classes/edu/internet2/middleware/grouper/ui/hooks/GrouperUiHookShim.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2GrouperObjectTypes.java classes/edu/internet2/middleware/grouper/ui/util/GrouperUiUtils.java classes/edu/internet2/middleware/grouper/ui/util/GrouperUiConfig.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/TextContainer.java

2019/06/05	grouper_v2_4_0_ui_patch_35	GRP-1981: Provisioning in UI	files/WEB-INF/grouperUi2/provisioning/provisioningFolderSettingsEdit.jsp files/WEB-INF/grouperUi2/provisioning/provisioningObjectSettingsEditHelper.jsp files/WEB-INF/grouperUi2/provisioning/provisioningFolderMoreActionsButtonContents.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/api/provisioning/GuiGrouperProvisioningAttributeValue.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/ProvisioningContainer.java files/WEB-INF/grouperUi2/provisioning/provisioningGroupMoreActionsButtonContents.jsp files/WEB-INF/grouperUi2/stem/stemMoreActionsButtonContents.jsp files/WEB-INF/grouperUi2/group/groupMoreActionsButtonContents.jsp files/WEB-INF/grouperUi2/provisioning/provisioningFolderSettingsView.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Provisioning.java files/WEB-INF/grouperUi2/provisioning/provisioningGroupSettingsEdit.jsp files/WEB-INF/grouperUi2/provisioning/provisioningGroupSettingsView.jsp files/WEB-INF/grouperUi2/provisioning/provisioningSettingsView.jsp
2019/06/09	grouper_v2_4_0_ui_patch_36	GRP-2063: Allow ad-hoc sql reports	classes/Owasp.CsrfGuard.overlay.properties

2019/06/09	grouper_v2_4_0_ui_patch_37	GRP-2063: Allow ad-hoc sql reports	files/WEB-INF/grouperUi2/grouperReport/grouperReportGroupMoreActionsButtonContents.jsp files/WEB-INF/grouperUi2/grouperReport/reportConfigObjectEditHelper.jsp classes/edu/internet2/middleware/grouperUi/serviceLogic/UiV2GrouperReport.java classes/edu/internet2/middleware/grouperUi/beans/ui/GuiReportConfig.java files/WEB-INF/grouperUi2/grouperReport/folderReportConfigWithInstances.jsp files/WEB-INF/grouperUi2/grouperReport/folderReportConfigEdit.jsp files/WEB-INF/grouperUi2/grouperReport/reportConfigObjectAddHelper.jsp classes/edu/internet2/middleware/grouperUi/beans/api/GuiGrouperReportConfig.java files/WEB-INF/grouperUi2/group/groupMoreActionsButtonContents.jsp files/WEB-INF/grouperUi2/grouperReport/groupReportInstanceDetails.jsp files/WEB-INF/grouperUi2/grouperReport/grouperReportFolderReportViewButtonContents.jsp classes/edu/internet2/middleware/grouperUi/beans/ui/GuiReportInstance.java files/WEB-INF/grouperUi2/grouperReport/folderReportConfig.jsp classes/edu/internet2/middleware/grouperUi/beans/ui/GrouperReportContainer.java classes/edu/internet2/middleware/grouperUi/beans/ui/GrouperReportConfigInstance.java classes/edu/internet2/middleware/grouperUi/beans/ui/GrouperRequestContainer.java classes/edu/internet2/middleware/grouper/j2ee/GrouperUiRestServlet.java files/WEB-INF/grouperUi2/grouperReport/groupReportConfig.jsp files/WEB-INF/grouperUi2/stem/stemMoreActionsButtonContents.jsp files/WEB-INF/grouperUi2/grouperReport/folderReportConfigAdd.jsp files/WEB-INF/grouperUi2/grouperReport/grouperReportFolderMoreActionsButtonContents.jsp files/WEB-INF/grouperUi2/grouperReport/folderReportInstanceDetails.jsp files/WEB-INF/grouperUi2/grouperReport/groupReportConfigWithInstances.jsp files/WEB-INF/grouperUi2/grouperReport/groupReportConfigEdit.jsp files/WEB-INF/grouperUi2/grouperReport/groupReportConfigAdd.jsp
2019/06/12	grouper_v2_4_0_ui_patch_38	GRP-2157: add template for policy group	classes/edu/internet2/middleware/grouperUi/beans/ui/GrouperTierStructureLogic.java classes/edu/internet2/middleware/grouperUi/beans/ui/GrouperNewServiceTemplateLogic.java files/WEB-INF/grouperUi2/stem/stemNewTemplate.jsp classes/edu/internet2/middleware/grouperUi/beans/ui/StemTemplateContainer.java classes/edu/internet2/middleware/grouperUi/beans/ui/GrouperTemplatePolicyGroupLogic.java classes/edu/internet2/middleware/grouperUi/beans/ui/ServiceActionType.java classes/edu/internet2/middleware/grouperUi/serviceLogic/UiV2Template.java classes/grouper-ui.base.properties classes/edu/internet2/middleware/grouperUi/beans/ui/GrouperTemplateLogicBase.java

2019/07/24	grouper_v2_4_0_ui_patch_39	GRP-1953: grouper configuration in database and ui	classes/edu/internet2/middleware/grouper/grouperUi/beans/config/GuiConfigFile.java classes/edu/internet2/middleware/grouper/grouperUi/beans/config/GuiConfigProperty.java classes/edu/internet2/middleware/grouper/grouperUi/beans/config/GuiConfigSection.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/ConfigurationContainer.java classes/edu/internet2/middleware/grouper/j2ee/GrouperRequestWrapper.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GrouperRequestContainer.java classes/edu/internet2/middleware/grouper/ui/util/GrouperUiConfig.java files/WEB-INF/grouperUi2/configure/configure.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/AdminContainer.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Configure.java files/grouperExternal/public/assets/css/grouperUi2.css classes/grouper-ui.base.properties files/WEB-INF/grouperUi2/index/miscellaneous.jsp
2019/08/19	grouper_v2_4_0_ui_patch_40	GRP-2261: configuration in ui edit screens	files/WEB-INF/grouperUi2/configure/configurationFileEditEntry.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/config/ConfigUtils.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/ConfigurationContainer.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GuiAuditEntry.java classes/edu/internet2/middleware/grouper/grouperUi/beans/config/GuiConfigProperty.java files/WEB-INF/grouperUi2/index/miscellaneous.jsp files/WEB-INF/grouperUi2/configure/configurationFileAddEntry.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Configure.java files/WEB-INF/grouperUi2/configure/configureIndex.jsp files/WEB-INF/grouperUi2/configure/configureFilesMoreActionsButtonContents.jsp files/WEB-INF/grouperUi2/configure/configure.jsp
2019/08/19	grouper_v2_4_0_ui_patch_41	GRP-2202: Attestation using reports GRP-2265: Attestation UI doesn't show "Folder with settings"	classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Attestation.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GuiAttestation.java files/WEB-INF/grouperUi2/stem/stemAttestationEdit.jsp files/WEB-INF/grouperUi2/stem/viewStem.jsp files/WEB-INF/grouperUi2/stem/stemAttestation.jsp files/WEB-INF/grouperUi2/group/groupAttestationView.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/AttestationContainer.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Stem.java

2019/08/20	grouper_v2_4_0_ui_patch_42	GRP-2151: Add workflow approval forms to grouper	files/WEB-INF/grouperUi2/workflow/groupJoinInitiateWorkflow.jsp files/WEB-INF/grouperUi2/workflow/grouperWorkflowWaitingForApprovals.jsp files/WEB-INF/grouperUi2/workflow/groupWorkflowConfigAdd.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GroupContainer.java files/WEB-INF/grouperUi2/index/miscellaneous.jsp files/WEB-INF/grouperUi2/workflow/grouperWorkflowViewInstance.jsp files/WEB-INF/grouperUi2/workflow/groupWorkflowConfig.jsp files/WEB-INF/grouperUi2/group/groupMoreActionsButtonContents.jsp files/WEB-INF/grouperUi2/workflow/grouperWorkflowGroupMoreActionsButtonContents.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GuiGrouperWorkflowConfig.java files/WEB-INF/grouperUi2/workflow/grouperWorkflowConfigDetails.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GuiGrouperWorkflowInstance.java files/WEB-INF/grouperUi2/workflow/workflowConfigObjectAddHelper.jsp files/WEB-INF/grouperUi2/workflow/workflowConfigObjectEditHelper.jsp files/WEB-INF/grouperUi2/workflow/grouperWorkflowViewInstances.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GrouperRequestContainer.java files/WEB-INF/grouperUi2/workflow/groupWorkflowMiscForm.jsp files/WEB-INF/grouperUi2/workflow/grouperWorkflowInstancesSubjectInitiated.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Group.java files/WEB-INF/grouperUi2/workflow/groupWorkflowConfigEdit.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2GrouperWorkflow.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/WorkflowContainer.java
2019/08/20	grouper_v2_4_0_ui_patch_43	GRP-2249: member batch import incompatible with content security policy blocking iframes GRP-2247: Attribute def values not showing properly in the edit text field GRP-2238: enabled/disabled membership screen shows enabled when not GRP-2185: 'Copy folder' fails when targeting same parent folder with different name GRP-2203: stem membership doesnt show right count GRP-2219: do not submit attribute value edit form on enter key GRP-2289: Clear out the entire cache when deprovisioning config is edited on root	files/WEB-INF/grouperUi2/membershipAttribute/membershipAttributeAssignValueEdit.jsp files/grouperExternal/public/assets/js/grouperUi.js files/WEB-INF/grouperUi2/attributeDefAttribute/attributeDefAttributeAssignValueEdit.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/json/GuiPaging.java files/WEB-INF/grouperUi2/stemAttribute/stemAttributeAssignValueEdit.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/DeprovisioningContainer.java classes/edu/internet2/middleware/grouper/grouperUi/beans/api/GuiMembershipContainer.java files/WEB-INF/grouperUi2/attributeDef/attributeDefPrivilegeContents.jsp files/WEB-INF/grouperUi2/deprovisioning/deprovisioningObjectSettingsView.jsp files/WEB-INF/grouperUi2/membership/traceAttributeDefPrivileges.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Stem.java files/WEB-INF/grouperUi2/subjectAttribute/subjectAttributeAssignValueEdit.jsp files/WEB-INF/grouperUi2/groupAttribute/groupAttributeAssignValueEdit.jsp classes/edu/internet2/middleware/grouper/ui/tags/GrouperPagingTag2.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Deprovisioning.java

2019/09/29	grouper_v2_4_0_ui_patch_44	GRP-2300: LDAP loader in UI shows subject attribute as required differently from wiki GRP-2264: Attestation UI doesn't show correct date to recertify and email info GRP-2281: show something about folder composites perhaps? GRP-2299: LDAP loader Updaters and attrUpdaters field using same value GRP-2249: member batch import incompatible with content security policy blocking iframe GRP-2333: UI shouldn't be adding wildcards for subject id/identifier queries GRP-2290: "members" tab doesnt work when on electronic forms screen GRP-2220: members tab doesn't work when editing types GRP-2218: UI fails to refresh group membership when users "Joins" the group. GRP-1841: Attribute definition screen in the "Attribute Assignments" sub page, clicking on "Attribute Names" tab does not function GRP-1709: add alternate name to new ui group/folder edit screens. GRP-2338: daemon logs should have a way to get back	files/WEB-INF/grouperUi2/attributeDefAttribute/viewAttributeDefAttributeAssigns.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Stem.java classes/edu/internet2/middleware/grouper/grouperUi/beans/dojo/DojoComboLogic.java files/WEB-INF/grouperUi2/group/grouperLoaderEditGroupTab.jsp files/WEB-INF/grouperUi2/group/viewGroup.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/AttestationContainer.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2GrouperLoader.java files/WEB-INF/grouperUi2/workflow/grouperWorkflowConfigDetails.jsp files/WEB-INF/grouperUi2/deprovisioning/deprovisioningAttributeDefSettingsView.jsp files/WEB-INF/grouperUi2/deprovisioning/deprovisioningAttributeDefReport.jsp files/WEB-INF/grouperUi2/deprovisioning/deprovisioningAttributeDefSettingsEdit.jsp files/WEB-INF/grouperUi2/admin/adminDaemonJobsViewLogs.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2GrouperWorkflow.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2AttributeDefName.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Attestation.java files/WEB-INF/grouperUi2/workflow/groupWorkflowConfigEdit.jsp files/WEB-INF/grouperUi2/workflow/groupWorkflowConfig.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Group.java files/WEB-INF/grouperUi2/stem/groupMembershipsInFolder.jsp files/WEB-INF/grouperUi2/group/groupEdit.jsp files/WEB-INF/grouperUi2/stem/stemEdit.jsp files/WEB-INF/grouperUi2/grouperObjectTypes/grouperObjectTypesGroupSettingsView.jsp files/WEB-INF/grouperUi2/workflow/grouperWorkflowViewInstances.jsp files/WEB-INF/grouperUi2/grouperObjectTypes/grouperObjectTypesGroupSettingsEdit.jsp files/WEB-INF/grouperUi2/workflow/groupWorkflowConfigAdd.jsp files/WEB-INF/grouperUi2/group/groupAttestationView.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Provisioning.java files/WEB-INF/grouperUi2/stem/stemAttestation.jsp
2019/10/01	grouper_v2_4_0_ui_patch_45	GRP-2345: error on privs of loader attributes	classes/edu/internet2/middleware/grouper/grouperUi/beans/api/GuiGroup.java files/WEB-INF/grouperUi2/group/groupMoreActionsButtonContents.jsp
2019/10/20	grouper_v2_4_0_ui_patch_46	GRP-2361: ui for import/edit/delete database config GRP-2362: GrouperSystem cant be found GRP-2337: daemon page should show a more accurate status GRP-2363: v2.4 unit test fixes (round 1) GRP-2358: deprovisioning email service looking for attributes and not going to root folder GRP-2188: add cc etc to grouperEmail GRP-2366: GrouperUtil.stripEnd should be GrouperUtil.stripSuffix	files/WEB-INF/grouperUi2/configure/configurationFileEditEntry.jsp classes/edu/internet2/middleware/grouper/j2ee/GrouperRequestWrapper.java files/WEB-INF/grouperUi2/configure/configure.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/api/GuiDaemonJob.java files/grouperExternal/public/assets/js/grouperUi.js classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/ConfigurationContainer.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Configure.java files/WEB-INF/grouperUi2/configure/configureFilesMoreActionsButtonContents.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/config/ConfigUtils.java classes/edu/internet2/middleware/grouper/grouperUi/beans/config/GuiConfigProperty.java files/WEB-INF/grouperUi2/admin/adminDaemonJobsContents.jsp files/WEB-INF/grouperUi2/configure/configurationFileImport.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/config/GuiConfigFile.java

2019/10/20	grouper_v2_4_0_ui_patch_47	GRP-2366: GrouperUtil.stripEnd should be GrouperUtil.stripSuffix	classes/edu/internet2/middleware/grouper/grouperUi/beans/config/GuiConfigFile.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Configure.java classes/edu/internet2/middleware/grouper/ui/util/GrouperUiUtils.java
2019/10/21	grouper_v2_4_0_ui_patch_48	GRP-2367: viewing database config is slow	classes/edu/internet2/middleware/grouper/grouperUi/beans/config/ConfigUtils.java
2019/10/24	grouper_v2_4_0_ui_patch_49	GRP-2303: create screen to show attribute assignments from an attribute def name	files/WEB-INF/grouperUi2/attributeDef/attributeDefAssignAddValue.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/AttributeDefNameContainer.java files/WEB-INF/grouperUi2/attributeDef/attributeDefAssignEdit.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/api/GuiAttributeAssignFinderResult.java files/WEB-INF/grouperUi2/attributeDef/attributeDefAssignAddMetadataAssignment.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2AttributeDefName.java classes/edu/internet2/middleware/grouper/grouperUi/beans/api/GuiAttributeAssignFinderResults.java files/WEB-INF/grouperUi2/attributeDefName/attributeDefNameAssignEdit.jsp classes/edu/internet2/middleware/grouper/j2ee/GrouperUiRestServlet.java files/WEB-INF/grouperUi2/attributeDefName/attributeDefNameAssignAddMetadataAssignment.jsp files/WEB-INF/grouperUi2/attributeDef/attributeDefAssignValueEdit.jsp files/WEB-INF/grouperUi2/attributeDefName/attributeDefNameView.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2AttributeDef.java files/WEB-INF/grouperUi2/attributeDefName/attributeDefNameAssignValueEdit.jsp files/WEB-INF/grouperUi2/attributeDefName/attributeDefNameAssignAddValue.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/AttributeDefContainer.java files/WEB-INF/grouperUi2/attributeDef/attributeDefViewOwnerEntities.jsp files/WEB-INF/grouperUi2/attributeDef/attributeDefViewOwners.jsp files/WEB-INF/grouperUi2/attributeDef/attributeDefMoreActionsButtonContents.jsp files/WEB-INF/grouperUi2/attributeDefName/attributeDefNameMoreActionsButtonContents.jsp files/WEB-INF/grouperUi2/attributeDefName/attributeDefNameViewOwnerEntities.jsp
2019/10/28	grouper_v2_4_0_ui_patch_50	GRP-2382: db config issues	files/WEB-INF/grouperUi2/configure/configurationFileEditEntry.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Configure.java classes/edu/internet2/middleware/grouper/grouperUi/beans/config/GuiConfigFile.java classes/edu/internet2/middleware/grouper/grouperUi/beans/config/ConfigUtils.java
2019/10/28	grouper_v2_4_0_ui_patch_51	GRP-2384: ui configuration changes do not immediately show up on screen	classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Configure.java

2019/12/23	grouper_v2_4_0_ui_patch_52	GRP-2499: autopage in grouper box so long queries execute successfully GRP-2023: Modify USDU to allow saving attributes on members, ui, etc GRP-2412: Folder menu tree to use "..." to indicate a truncated list of items GRP-2478: error in obliterate stem if too many levels and delete pit GRP-2475: cursor paging to download large amounts of data GRP-2477: allow getMembers paging to get all members with no gaps from client GRP-2451: allow grouper box to have pem in database config GRP-2465: make grouper box user last longer and be configurable	classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Main.java files/WEB-INF/grouperUi2/subjectResolution/subjectResolutionMain.jsp files/WEB-INF/grouperUi2/subjectResolution/subjectSearch.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/config/ConfigUtils.java files/WEB-INF/grouperUi2/subjectResolution/subjectResolutionMainMoreActionsButtonContents.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/SubjectResolutionContainer.java files/WEB-INF/grouperUi2/subjectResolution/subjectResolutionStats.jsp files/WEB-INF/grouperUi2/subjectResolution/subjectDeleteAuditsContents.jsp files/WEB-INF/grouperUi2/assetsJsp/commonBottom.jsp files/WEB-INF/grouperUi2/subjectResolution/subjectDeleteAudits.jsp files/grouperExternal/public/assets/js/grouperUi.js classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GuiAuditEntry.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GrouperRequestContainer.java files/WEB-INF/grouperUi2/subjectResolution/unresolvedSubjects.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/api/GuiSubjectResolutionSubject.java files/WEB-INF/grouperUi2/subjectResolution/subjectResolutionViewSubject.jsp files/WEB-INF/grouperUi2/subjectResolution/subjectResolutionViewSubjects.jsp files/WEB-INF/grouperUi2/subjectResolution/unresolvedSubjectsHelper.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/tree/DojoTreeItemChild.java classes/edu/internet2/middleware/grouper/j2ee/GrouperUiRestServlet.java files/WEB-INF/grouperUi2/index/miscellaneous.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2SubjectResolution.java
2019/12/23	grouper_v2_4_0_ui_patch_53	GRP-2501: usdu screen needs to show more info, e.g. subject id, source id, identifier, name, description from members table	files/WEB-INF/grouperUi2/subjectResolution/unresolvedSubjectsHelper.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2SubjectResolution.java
2020/01/02	grouper_v2_4_0_ui_patch_54	GRP-2502: fix sorting and paging of usdu subject screen GRP-2504: new usduDaemon: subject resolution on miscellaneous page never completes GRP-2505: grouper csv properties query from wrong name GRP-2508: add USDU ui option to show deleted subjects or all unresolved and deleted subjects GRP-2509: allow user to delete subject in USDU screen GRP-2510: allow view subject to show unresolvable subjects GRP-2511: improve performance of USDU view subjects page GRP-2512: add subject id and source id to usdu ui results in list and find screens GRP-2513: usdu breadcrumbs not correct GRP-2514: 'days unresolved' is not calculated correctly on usdu ui GRP-2515: USDU no longer runs during 'daily report' GRP-2516: usdu is a weekly daemon and diagnostics fails since checks GRP-2517: client autopaging with no results can return null result	classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Subject.java classes/edu/internet2/middleware/grouper/grouperUi/beans/api/GuiSubject.java files/WEB-INF/grouperUi2/subjectResolution/subjectResolutionViewSubject.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2SubjectResolution.java files/WEB-INF/grouperUi2/subjectResolution/subjectDeleteAuditsContents.jsp files/WEB-INF/grouperUi2/subjectResolution/unresolvedSubjects.jsp files/WEB-INF/grouperUi2/subjectResolution/unresolvedSubjectsHelper.jsp files/WEB-INF/grouperUi2/subjectResolution/subjectDeleteAudits.jsp files/WEB-INF/grouperUi2/subjectResolution/subjectResolutionMain.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/SubjectResolutionContainer.java files/WEB-INF/grouperUi2/subjectResolution/subjectSearch.jsp

2020/01/09	grouper_v2_4_0_ui_patch_55	GRP-2539: change "subject resolution" to "unresolvable subjects" in ui GRP-2368: deprovisioning report has duplicates on it. each group should GRP-2518: usdu screen doesnt show anything on "deleted" or "unresolved" but yes on "all". GRP-2521: usduDaemon: subject resolution stats: column heads no action GRP-2524: deprovisioning not reading correct base config (should be root GRP-2526: WS startup issue - message issued many times until WS query GRP-2527: various deprovisioning issues GRP-2535: all daemon jobs screen should filter by status GRP-2537: source getAllSubjectIds fails on json marshalling GRP-2539: change "subject resolution" to "unresolvable subjects" in ui GRP-2540: Policy Template Privileges GRP-2541: Miscellaneous >> All daemon jobs "Apply filter" button does not honor URL parameter value (Example: daemonJobsFilter=usduDaemon) GRP-2546: background color on recent activity not correct for wide rows	files/WEB-INF/grouperUi2/subjectResolution/subjectResolutionStats.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Deprovisioning.java files/WEB-INF/grouperUi2/admin/adminDaemonJobsContents.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Admin.java files/WEB-INF/grouperUi2/subjectResolution/unresolvedSubjectsHelper.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/ServiceActionType.java files/WEB-INF/grouperUi2/index/indexMain.jsp files/WEB-INF/grouperUi2/subjectResolution/subjectResolutionViewSubjects.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/AdminContainer.java classes/edu/internet2/middleware/grouper/grouperUi/beans/api/GuiDeprovisioningMembershipSubjectContainer.java files/WEB-INF/grouperUi2/deprovisioning/deprovisioningObjectSettingsView.jsp files/WEB-INF/grouperUi2/admin/adminDaemonJobs.jsp
2020/02/05	grouper_v2_4_0_ui_patch_56	GRP-2571: allow import configuration to database from gsh	classes/edu/internet2/middleware/grouper/grouperUi/beans/config/GrouperDbConfigImport.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Configure.java classes/edu/internet2/middleware/grouper/grouperUi/beans/config/ConfigUtils.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GrouperRequestContainer.java classes/edu/internet2/middleware/grouper/grouperUi/beans/config/GrouperDbConfig.java
2020/03/24	grouper_v2_4_0_ui_patch_57	GRP-2143: rules need effective memberships calculated and change log consumers and daemons GRP-2617: custom ui for access analysis and join/leave GRP-2596: decimal and integers should be compared better in sql sync GRP-2602: grouper duo admin has wrong job name in hib3 loader log GRP-2606: rabbitmq messages sometimes not being received GRP-2608: provisioning scalable dao GRP-2615: Ignore high churn attribute defs GRP-2593: need more batching on large SQL changes in the sql sync	files/WEB-INF/grouperUi2/group/customUiGroup.jsp files/WEB-INF/grouperUi2/index/indexCustomUi.jsp classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2Main.java files/WEB-INF/grouperUi2/group/groupMoreActionsButtonContents.jsp files/WEB-INF/grouperUi2/admin/adminDaemonJobsViewLogsResults.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GrouperRequestContainer.java classes/edu/internet2/middleware/grouper/grouperUi/serviceLogic/UiV2CustomUi.java classes/edu/internet2/middleware/grouper/grouperUi/beans/api/GuiStem.java files/WEB-INF/grouperUi2/index/index.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/api/GuiGroup.java classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/CustomUiContainer.java classes/edu/internet2/middleware/grouper/ui/tags/GrouperAbbreviateTextareaTag.java files/grouperExternal/public/assets/js/grouperUi.js classes/Owasp.CsrfGuard.overlay.properties files/WEB-INF/grouperUi2/index/indexCustomUiTopContainer.jsp files/WEB-INF/tld/grouper-el.tld classes/edu/internet2/middleware/grouper/grouperUi/beans/api/GuiAttributeDef.java classes/edu/internet2/middleware/grouper/j2ee/GrouperUiRestServlet.java files/WEB-INF/grouperUi2/group/grouperLoaderViewLogsResults.jsp classes/edu/internet2/middleware/grouper/grouperUi/beans/ui/GroupContainer.java
WS patches			
2018/09/10	grouper_v2_4_0_ws_patch_0	GRP-1892: grouper-ws.base.properties / ws.client.user.group.name no longer commented	classes/grouper-ws.base.properties
2019/01/05	grouper_v2_4_0_ws_patch_1	GRP-1963: grouper configuration metadata	classes/grouper-ws.base.properties

2019/02/05	grouper_v2_4_0_ws_patch_2	GRP-1991: Allow any valid exchange type for rabbitmq	classes/edu/internet2/middleware/grouper/ws/GrouperServiceLogic.java
2019/02/08	grouper_v2_4_0_ws_patch_3	GRP-2022: move voot jar into ws	classes/edu/internet2/middleware/grouperVoot/beans/VootEmail.java classes/edu/internet2/middleware/grouperVoot/messages/VootGetGroupsResponse.java classes/edu/internet2/middleware/grouperVoot/beans/VootPerson.java classes/edu/internet2/middleware/grouperVoot/messages/VootErrorResponse.java classes/edu/internet2/middleware/grouperVoot/beans/VootGroup.java classes/edu/internet2/middleware/grouperVoot/VootLogic.java classes/edu/internet2/middleware/grouperVoot/messages/VootResponse.java classes/edu/internet2/middleware/grouperVoot/restLogic/VootWsRest.java classes/edu/internet2/middleware/grouperVoot/messages/VootGetMembersResponse.java classes/edu/internet2/middleware/grouperVoot/VootServlet.java classes/edu/internet2/middleware/grouperVoot/VootRestHttpMethod.java
2019/03/13	grouper_v2_4_0_ws_patch_4	GRP-2058: add debug info to the kerberos authn ws class	classes/grouper-ws.base.properties
2019/03/13	grouper_v2_4_0_ws_patch_5	GRP-2058: add debug info to the kerberos authn ws class	classes/edu/internet2/middleware/grouper/ws/security/WsGrouperKerberosAuthentication.java
2019/06/06	grouper_v2_4_0_ws_patch_6	GRP-2187: npe with bad params in ws	classes/edu/internet2/middleware/grouper/ws/GrouperServiceJ2ee.java
2019/07/24	grouper_v2_4_0_ws_patch_7	GRP-1953: grouper configuration in database and ui	classes/grouper-ws.base.properties classes/edu/internet2/middleware/grouper/ws/GrouperWsConfig.java
2019/09/29	grouper_v2_4_0_ws_patch_8	GRP-1980: ws message about versions is backwards GRP-1709: add alternate name to new ui group/folder edit screens.	classes/edu/internet2/middleware/grouper/ws/coresoap/WsStemToSave.java classes/edu/internet2/middleware/grouper/ws/util/GrouperWsVersionUtils.java
2019/10/20	grouper_v2_4_0_ws_patch_9	GRP-2365: diagnostic classes should be removed from WS since they are in API	classes/edu/internet2/middleware/grouper/ws/status/DiagnosticSourceTest.java classes/edu/internet2/middleware/grouper/ws/status/DiagnosticMinGroupSize.java classes/edu/internet2/middleware/grouper/ws/status/DiagnosticDbTest.java classes/edu/internet2/middleware/grouper/ws/status/DiagnosticLoaderJobTest.java classes/edu/internet2/middleware/grouper/ws/status/DiagnosticMemoryTest.java classes/edu/internet2/middleware/grouper/ws/status/GrouperStatusServlet.java classes/edu/internet2/middleware/grouper/ws/status/DiagnosticType.java classes/edu/internet2/middleware/grouper/ws/status/DiagnosticTask.java
2019/10/24	grouper_v2_4_0_ws_patch_10	GRP-2373: change installer to deal with new morphString features	classes/edu/internet2/middleware/grouper/ws/GrouperServiceJ2ee.java
2020/01/09	grouper_v2_4_0_ws_patch_11	GRP-2526: WS startup issue - message issued many times until WS query	classes/edu/internet2/middleware/grouper/ws/GrouperServiceJ2ee.java
PSPNG patches			

2018/09/15	grouper_v2_4_0_pspng_patch_0	Getting Grouper 2.4 up to date with Grouper 2.3/PSPNG Patches 17-21. This includes GRP-1345, GRP-1874, GRP-1552, GRP-1683, GRP-1730, GRP-1868, GRP-1882, GRP-1893.	classes/edu/internet2/middleware/grouper/pspng/FullSyncProvisionerFactory.java classes/edu/internet2/middleware/grouper/pspng/LdapSystem.java classes/edu/internet2/middleware/grouper/pspng/ChangelogHandlingConfig.java classes/edu/internet2/middleware/grouper/pspng/ProvisionerConfiguration.java classes/edu/internet2/middleware/grouper/pspng/PspUtils.java classes/edu/internet2/middleware/grouper/pspng/GrouperGroupInfo.java classes/edu/internet2/middleware/grouper/pspng/ProvisioningWorkItem.java classes/edu/internet2/middleware/grouper/pspng/LdapGroupProvisioner.java classes/edu/internet2/middleware/grouper/pspng/ProvisionerFactory.java classes/edu/internet2/middleware/grouper/pspng/FullSyncProvisioner.java classes/edu/internet2/middleware/grouper/pspng/LdapAttributeProvisioner.java classes/edu/internet2/middleware/grouper/pspng/LdapObject.java classes/edu/internet2/middleware/grouper/pspng/VoidProvisioner.java classes/edu/internet2/middleware/grouper/pspng/LdapProvisioner.java classes/edu/internet2/middleware/grouper/pspng/LdapProvisionerConfiguration.java classes/edu/internet2/middleware/grouper/pspng/Provisioner.java classes/edu/internet2/middleware/grouper/pspng/PspChangelogConsumerShim.java classes/edu/internet2/middleware/grouper/pspng/ProvisionerCoordinator.java
2018/11/26	grouper_v2_4_0_pspng_patch_1	GRP-1908: Fixes problem with debug-logging private information	classes/edu/internet2/middleware/grouper/pspng/LdapSystem.java
2019/01/20	grouper_v2_4_0_pspng_patch_2	GRP-1911 Fix problems with ldap-attribute provisioning and prefix with regex characters	classes/edu/internet2/middleware/grouper/pspng/LdapAttributeProvisioner.java
2019/02/20	grouper_v2_4_0_pspng_patch_3	GRP-1959 - PSPNG - FullSyncs delaying/timing out incrementals	classes/edu/internet2/middleware/grouper/pspng/lbmq/Pollable.java classes/edu/internet2/middleware/grouper/pspng/Provisioner.java classes/edu/internet2/middleware/grouper/pspng/lbmq/Offerable.java classes/edu/internet2/middleware/grouper/pspng/lbmq/AbstractPollable.java classes/edu/internet2/middleware/grouper/pspng/FullSyncProvisioner.java classes/edu/internet2/middleware/grouper/pspng/lbmq/AbstractOfferable.java classes/edu/internet2/middleware/grouper/pspng/ProvisionerConfiguration.java classes/edu/internet2/middleware/grouper/pspng/lbmq/DefaultSubQueueSelection.java classes/edu/internet2/middleware/grouper/pspng/FullSyncQueueItem.java classes/edu/internet2/middleware/grouper/pspng/FullSyncStarter.java classes/edu/internet2/middleware/grouper/pspng/lbmq/LinkedBlockingMultiQueue.java classes/edu/internet2/middleware/grouper/pspng/ProvisionerCoordinator.java

2019/03/12	grouper_v2_4_0_pspng_patch_4	GRP-1931,GRP-1992 - Improves full and incremental sync performance	classes/edu/internet2/middleware/grouper/pspng/LdapSearchProgressHandler.java classes/edu/internet2/middleware/grouper/pspng/LdapAttributeProvisioner.java classes/edu/internet2/middleware/grouper/pspng/LdapGroupProvisioner.java classes/edu/internet2/middleware/grouper/pspng/FullSyncQueueItem.java classes/edu/internet2/middleware/grouper/pspng/FullSyncProvisioner.java classes/edu/internet2/middleware/grouper/pspng/PspUtils.java classes/edu/internet2/middleware/grouper/pspng/LdapProvisioner.java classes/edu/internet2/middleware/grouper/pspng/ProgressMonitor.java classes/edu/internet2/middleware/grouper/pspng/PspDatedCache.java classes/edu/internet2/middleware/grouper/pspng/LdapSystem.java classes/edu/internet2/middleware/grouper/pspng/LdapObject.java classes/edu/internet2/middleware/grouper/pspng/ProvisionerCoordinator.java classes/edu/internet2/middleware/grouper/pspng/ProvisionerConfiguration.java classes/edu/internet2/middleware/grouper/pspng/PspDatedCacheElement.java classes/edu/internet2/middleware/grouper/pspng/LdapUser.java classes/edu/internet2/middleware/grouper/pspng/LdapProvisionerConfiguration.java classes/edu/internet2/middleware/grouper/pspng/ProvisioningWorkItem.java classes/edu/internet2/middleware/grouper/pspng/Provisioner.java
2019/04/28	grouper_v2_4_0_pspng_patch_5	PSPNG GRP-2056 - Use idIndex values available in ChangeLog after groups are deleted	classes/edu/internet2/middleware/grouper/pspng/FullSyncProvisioner.java classes/edu/internet2/middleware/grouper/pspng/Provisioner.java classes/edu/internet2/middleware/grouper/pspng/ProvisioningWorkItem.java classes/edu/internet2/middleware/grouper/pspng/ChangelogHandlingConfig.java classes/edu/internet2/middleware/grouper/pspng/GrouperGroupInfo.java classes/edu/internet2/middleware/grouper/pspng/LdapSystem.java
2019/04/30	grouper_v2_4_0_pspng_patch_6	GRP-2112 - Fix cache-size warnings	classes/edu/internet2/middleware/grouper/pspng/ProvisionerConfiguration.java classes/edu/internet2/middleware/grouper/pspng/Provisioner.java classes/edu/internet2/middleware/grouper/pspng/LdapSystem.java
2019/06/06	grouper_v2_4_0_pspng_patch_7 (not released yet)	GRP-2192: Fix misplaced placeholders for a few log statements	classes/edu/internet2/middleware/grouper/pspng/ProvisionerCoordinator.java classes/edu/internet2/middleware/grouper/pspng/Provisioner.java

2019 /07/09 (Test)	grouper_v2_4_0_pspng_patch_8	GRP-2208 - Improvements made to: Caching, Unresolvable-subject handling, Integration tests (particularly Active Directory), and Bug Fixes	classes/edu/internet2/middleware/grouper/pspng/Provisioner.java classes/edu/internet2/middleware/grouper/pspng/JobStatistics.java classes/edu/internet2/middleware/grouper/pspng/LdapAttributeProvisioner.java classes/edu/internet2/middleware/grouper/pspng/FullSyncQueueItem.java classes/edu/internet2/middleware/grouper/pspng/LdapObject.java classes/edu/internet2/middleware/grouper/pspng/ProvisionerConfiguration.java classes/edu/internet2/middleware/grouper/pspng/ProvisioningWorkItem.java classes/edu/internet2/middleware/grouper/pspng/LdapGroup.java classes/edu/internet2/middleware/grouper/pspng/LdapUser.java classes/edu/internet2/middleware/grouper/pspng/GrouperGroupInfo.java classes/edu/internet2/middleware/grouper/pspng/FullSyncStarter.java classes/edu/internet2/middleware/grouper/pspng/PspUtils.java classes/edu/internet2/middleware/grouper/pspng/LdapProvisioner.java classes/edu/internet2/middleware/grouper/pspng/ProvisionerCoordinator.java classes/edu/internet2/middleware/grouper/pspng/PspChangelogConsumerShim.java classes/edu/internet2/middleware/grouper/pspng/VoidProvisioner.java classes/edu/internet2/middleware/grouper/pspng/TargetSystemUser.java classes/edu/internet2/middleware/grouper/pspng/TargetSystemGroup.java classes/edu/internet2/middleware/grouper/pspng/LdapSystem.java classes/edu/internet2/middleware/grouper/pspng/LdapProvisionerConfiguration.java classes/edu/internet2/middleware/grouper/pspng/LdapGroupProvisioner.java classes/edu/internet2/middleware/grouper/pspng/FullSyncProvisioner.java
2019 /08/18	grouper_v2_4_0_pspng_patch_9	GRP-2272: Subjects: Null subject_id leads to NPE GRP-2275: NullPointerException in LdapProvisioner GRP-2274: JEXL Variables: add groupId and make more consistent	classes/edu/internet2/middleware/grouper/pspng/LdapProvisioner.java classes/edu/internet2/middleware/grouper/pspng/GrouperGroupInfo.java classes/edu/internet2/middleware/grouper/pspng/FullSyncQueueItem.java
2019 /09/13	grouper_v2_4_0_pspng_patch_10	GRP-2322: pspng is an throwing exception when using ${subject.getAttributeValue ("loginid") in the userSearchFilter.	classes/edu/internet2/middleware/grouper/pspng/Provisioner.java
2019 /09/29	grouper_v2_4_0_pspng_patch_11	GRP-1902: With PSPNG, renaming a folder trigger a full sync / Remember Group Selection between events	classes/edu/internet2/middleware/grouper/pspng/ChangelogHandlingConfig.java classes/edu/internet2/middleware/grouper/pspng/Provisioner.java
2019 /12/22	grouper_v2_4_0_pspng_patch_12	GRP-2481 - Make sure groups that are added under provisioned folders are documented as being selected for provisioning	classes/edu/internet2/middleware/grouper/pspng/Provisioner.java

For more information about upcoming plans, see the Grouper Product Roadmap .

Many other fixes and improvements were also made to all components of the Grouper Toolkit: Grouper API, Administrative & Lite UIs, Grouper Web Services, Grouper Client, Grouper Shell, Grouper Loader, PSP, and the Subject API.

- Grouper upgrade demo server from v2.3 to v2.4
- Install the Grouper v2.4 container with maturity level 0

Upgrading to Grouper 2.4 from Grouper 2.3

Using the Grouper Upgrader can simplify your upgrade process. Here is a movie demonstrating the Grouper upgrader. The upgrader can upgrade an installed env of the API, UI, WS, client, PSP, etc. If you dont have a build script to manage multiple envs, you might want to use the upgrader.

Upgrade Steps

1. Make sure you are using Java8/Tomcat8.5
2. Download the grouper installer
3. Run the upgrader for each env (test, prod, ui, ws, etc)

Important Changes in Grouper 2.4 that impact the upgrade

GSH next generation: GSH now uses Groovy shell. If your scripts dont work, set this in grouper.properties. (Though also inform the Grouper developers via Jira or email in case a fix is needed since the legacy GSH will be removed in the future.)

```
gsh.useLegacy = true
```

Convert the ehcache xml file to properties

This is taken care of by the upgrader above. If not, then you can do this manually

1. If you have not customized Grouper caching (generally the case), just delete the ehcache xml and use the properties file shipped with Grouper.
2. If you have customized Grouper caching
    a. Run the grouperInstaller upgradeTask to convert this file
    b. Copy the grouper.cache.properties to all envs (prod, test, ui, ws, etc)

Convert the sources.xml to subject.properties

This is taken care of by the upgrader above. If not, then you can do this manually

1. Run the grouperInstaller admin upgradeTask to convert this file
2. Copy the subject.properties to all envs (prod, test, ui, ws, etc)

vt-ldap was converted to Ldaptive

1. Test your LDAP loader and subject sources to make sure they work correctly. Note that if you use LDAP for your subject source, your configuration **must** change. For more details, visit the vt-ldap to ldaptive migration for LDAP access page. Also, try the subject source diagnostics to confirm your configuration.

Note that the admin and lite UIs are removed

1. If you know of applications which deep link to the admin or lite UIs, update those links.
2. If you have a reason to continue using these old UIs, there is an option to manually redeploy them. (Though let us know if there is a missing feature or issue in the New UI.)

Custom member fields have been deprecated

1. This was a very uncommon feature so most people should not be impacted. Previously, each individual group could have multiple membership lists. There would be the default list of members, but then you could also specify separate membership lists as well. Going forward, the best practice is to use separate groups for those custom lists instead. Custom lists are not supported in the New UI, but if you still use them, they will be available in the Admin UI if you choose to manually redeploy it.

Schema updates

1. In previous Grouper upgrades, it was very common for large schema updates that required downtime to make the adjustments. For the 2.3 to 2.4 upgrade, the only updates are new indexes and a new table. The upgrader will automatically add these without requiring a downtime.

Check logs

1. Login to your UI, do some WS calls, and check your logs for errors

Internationalization

1. if you use internationalization, change grouper.properties
   from: grouper.text.bundle.1.fileNamePrefix = grouperText/grouper.text.fr.fr
   to: grouper.text.bundle.1.fileNamePrefix = grouperText/grouper.textNg.fr.fr

See Also

Release Notes for Grouper 2.4

See Also

Deploying Grouper

Blog on Grouper Deprovisioning with Grouper 2.4 (September 2018)