

DSpace Service based api: API Changelist

- administrative package
 - DCType (Deleted)
- app.bulkedit package
 - BulkEditChange
 - MetadataImport
- app.itemexport package
 - ItemExport refactored into: ItemExportService
- app.itemimport package
 - ItemImport refactored into: ItemImportService
- app.itemupdate package
 - ItemArchive
- app.util package
 - AbstractDSpaceWebapp
 - MetadataExposure refactored into: MetadataExposureService
 - OpenSearch refactored into: OpenSearchService
 - SyndicationFeed
 - Util
 - MetadataUtilities
- app.mediafilter package
 - MediaFilterManager refactored into: MediaFilterService
 - FormatFilter
 - ImageMagickThumbnailFilter
 - MediaFilter
- app.sfx package
 - SFXFileReader refactored into: SFXFileReaderService
- app.statistics package
 - LogAnalyser
- authenticate package
 - AuthenticationManager refactored into: AuthenticationService
 - AuthenticationMethod
 - PasswordAuthentication
 - ShibAuthentication
- authority package
 - AuthorityValue
 - AuthorityValueGenerator & AuthorityValueFinder refactored into: AuthorityValueService
 - AuthorityIndexClient
- authorize Package
 - AuthorizeManager refactored into: AuthorizeService
 - PolicySet
 - ResourcePolicy refactored into: ResourcePolicy & ResourcePolicyService
- Browse package
 - General
 - BrowseItem (Deleted)
 - BrowseItemDAO (Deleted)
 - BrowseInfo
 - BrowseCreateDAO
 - BrowseDAO
 - BrowseDAOFactory
 - BrowseDAOUtils (Deleted)
 - BrowseDAOUtilsDefault (Deleted)
 - IndexBrowse
 - SolrBrowseDAO
- Checker package
 - BitstreamDAO (Deleted)
 - BitstreamDispatcher
 - BitstreamInfoDAO (Deleted)
 - ChecksumCheckResults refactored into: ChecksumResultCode
 - ChecksumHistoryDAO
 - DAOSupport (Deleted)
 - ChecksumResult (New)
 - DSpaceBitstreamInfo
 - ChecksumResultDAO refactored into: ChecksumResultService
 - ReporterDAO (Deleted)
 - BitstreamInfo refactored into: MostRecentChecksum
 - CheckerCommand
 - ChecksumHistory
 - ChecksumResultsCollector
 - HandleDispatcher
 - ListDispatcher refactored into: IteratorDispatcher
 - LimitedCountDispatcher
 - LimitedDurationDispatcher
 - ResultsLogger
 - ResultsPruner
 - SimpleReporter refactored into: SimpleReporterService

- SimpleReporterImpl refactored into: SimpleReporterService
 - SimpleDispatcher
- content package
 - Bitstream refactored into: Bitstream, BitstreamService
 - Bundle refactored into: Bundle, BundleService
 - BitstreamFormat refactored into: BitstreamFormat, BitstreamFormatService
 - Collection refactored into: Collection, CollectionService
 - Community refactored into: Community, CommunityService
 - DSpaceObject refactored into: DSpaceObjectService
 - FormatIdentifier (Deleted)
 - InProgressSubmission refactored into: InProgressSubmission, InProgressSubmissionService
 - InstallItem refactored into: InstallItemService
 - Item refactored into: Item, ItemService
 - ItemDAO
 - ItemDAOFactory (Deleted)
 - ItemDAOOracle (Deleted)
 - ItemDAOPostgres (Deleted)
 - ItemIterator (Deleted)
 - ItemService
 - MetadataAuthorityManager refactored into: MetadataAuthorityService
 - Metadatum (Deleted)
 - MetadataField refactored into: MetadataField, MetadataFieldService
 - MetadataSchema refactored into: MetadataSchema, MetadataSchemaService
 - MetadataValue refactored into: MetadataValue, MetadataValueService
 - SupervisedItem refactored into: SupervisedItemService
 - Site refactored into: Site, SiteService
 - WorkspaceItem refactored into: WorkspaceItem, WorkspaceItemService
- content.authority package
 - ChoiceAuthorityManager refactored into: ChoiceAuthorityService
 - ChoiceAuthority
 - SHERPARoMEOProtocol
- content.crosswalk package
 - AIPDIMCrosswalk
 - AIPTechMDCrosswalk
 - DIMDisseminationCrosswalk
 - DisseminationCrosswalk
 - IngestionCrosswalk
 - METSDisseminationCrosswalk
 - METSRightsCrosswalk
 - MODSDisseminationCrosswalk
 - OREDisseminationCrosswalk
 - PREMISCrosswalk
 - QDCCrosswalk
 - RoleCrosswalk
 - SimpleDCDisseminationCrosswalk
 - XHTMLHeadDisseminationCrosswalk
 - XSLTDisseminationCrosswalk
- content.packager package
 - AbstractMETSDisseminator
 - PackageUtils
- core package
 - Context
 - LicenseManager refactored into: LicenseService
 - NewsManager refactored into: NewsService
- curate package
 - Curator
 - CurationCli
 - WorkflowCurator refactored into: WorkflowCuratorService
- disseminate package
 - CitationDocument refactored into: CitationDocumentService
- embargo package
 - EmbargoManager refactored into: EmbargoService, EmbargoCLITool
- eperson package
 - Group refactored into: Group, GroupService, GroupCLITool
 - EPerson refactored into: EPerson, EPersonService, EPersonCLITool
 - Subscribe refactored into: SubscribeService, SubscribeCLITool
 - Supervisor refactored into: SupervisorService
 - AccountManager refactored into: AccountService
- event package
 - Event
 - EventManager refactored into: EventService
- handle package
 - HandleManager refactored into: HandleService
 - UpdateHandlePrefix
- harvest package
 - HarvestedItem refactored into: HarvestedItem, HarvestedItemService
 - HarvestedCollection refactored into: HarvestedCollection, HarvestedCollectionService
 - OAIHarvester
- identifier package

- DOI refactored into DOI, DOIService
 - DOIIdentifierProvider
 - DOIOrganiser
 - IdentifierService
- license package
 - CreativeCommons refactored into: CreativeCommonsService
- rdf package
 - RDFUtil
- rdf.conversion package
 - SimpleDSORelationsConverterPlugin
- rdf.storage package
 - DOIURIGenerator
 - HandleURIGenerator
 - LocalURIGenerator
 - URIGenerator
- statistics package
 - ElasticSearchLogger refactored into: ElasticSearchLoggerService
 - SolrLogger refactored into: SolrLoggerService
- storage.bitstore package
 - BitstreamStorageManager refactored into BitstreamStorageService
- requestitem package
 - RequestItem
- version package
 - Version
 - VersionDAO
 - VersionHistory
 - VersionHistoryDAO
 - VersionHistoryImpl refactored into: VersionHistoryService
 - VersionImpl, VersioningService, VersioningServiceImpl refactored into: VersioningService
- workflow package
 - WorkflowItem refactored into: Interface (old usage moved to: BasicWorkflowItem)
 - WorkflowManager refactored into: WorkflowService (old usage moved to BasicWorkflowService)
- workflowbasic package (new)
 - TaskListItem, TaskListItemService
 - BasicWorkflowItem (previously WorkflowItem)
 - BasicWorkflowService (previously WorkflowManager)
- xmlWorkflow package
 - ClaimedTask refactored into: ClaimedTask, ClaimedTaskService
 - CollectionRole refactored into: CollectionRole, CollectionRoleService
 - InProgressUser refactored into: InProgressUser InProgressUserService
 - RoleMembers
 - WorkflowItemRole refactored into: WorkflowItemRole, WorkflowItemRoleService
 - WorkflowRequirementsManager refactored into: WorkflowRequirementsService
 - WorkflowUtils
 - XmlWorkflowItem refactored into: XmlWorkflowItem, XmlWorkflowItemService
 - WorkflowFactory refactored into: XmlWorkflowFactory
 - XmlWorkflowManager refactored into: XmlWorkflowService

administrative package

DCType (Deleted)

Class has been removed, isn't used anywhere in the codebase

app.bulkedit package

BulkEditChange

- registerRemove, registerAdd, registerConstant, getAdds, getRemoves, getConstant, getComplete, now require a newly created BulkEditMetadataValue instead of a Metadatum (values retrieved from a csv cannot be transformed into a MetadataValue anymore)

MetadataImport

- getAuthorityValueType() method moved to AuthorityValueService

app.itemexport package

ItemExport refactored into: ItemExportService

Factory usage: ItemExportServiceFactory.getInstance().getItemExportService()

- Class has been split into ItemExportService & ItemExportCLITool
- exportAsZip now requires an Iterator<Item> instead of an ItemIterator
- getExportDownloadDirectory, deleteOldExportArchives methods now require an EPerson instead of an identifier
- getExportFileSize & getExportFileLastModified now require a context

app.itemimport package

ItemImport refactored into: ItemImportService

Factory usage: ItemImportServiceFactory.getInstance().getItemImportService()

- Class has been split into ItemImportService & ItemImportCLITool
- addItemsAtomic(), addItems(), require a collection list instead of an array
- getImportUploadableDirectory() now requires an EPerson
- processUIImport() methods now require a template boolean
- now has setters/getters to control if service should be used in test/resume, useWorkflow,

app.itemupdate package

ItemArchive

- addUndoDeleteContents method now requires a UUID.

app.util package

AbstractDSpaceWebapp

- The class remains but all code related to the WebApp database table has been moved to the respective WebApp, WebAppService, WebAppDAO classes.
- getApps method has been moved to WebAppService and now returns a list of WebApp objects

MetadataExposure refactored into: MetadataExposureService

Factory usage: UtilServiceFactory.getInstance().getMetadataExposureService();

- Has been refactored into MetadataExposureService

OpenSearch refactored into: OpenSearchService

Factory usage: UtilServiceFactory.getInstance().getOpenSearchService();

- Has been refactored into OpenSearchService
- getResultsString(), getResultsDoc() methods now require a context

SyndicationFeed

- populate() method now requires a context.

Util

- getControlledVocabulariesDisplayValueLocalized now requires a list of MetadataValues instead of an array of Metadatum

MetadataUtilities

- deleteMetadataByValue(), appendMetadata() methods now require a context
- getDCValueString now requires a metadata value
- readDeleteContentsFile() now returns a list of strings, this is due to the fact that exported files can have both legacy integers as well as UUIDS.

app.mediafilter package

MediaFilterManager refactored into: MediaFilterService

Factory usage: MediaFilterServiceFactory.getInstance().getMediaFilterService()

- Class been split into MediaFilterService & MediaFilterCLITool

FormatFilter

- getDestinationStream(), preProcessBitstream() now require verbose boolean
- getDestinationStream() now requires an item

ImageMagickThumbnailFilter

- getThumbnailFile(), getImageFile(), now requires verbose boolean

MediaFilter

- preProcessBitstream() now requires verbose boolean

app.sfx package

SFXFileReader refactored into: SFXFileReaderService

Factory usage: SfxServiceFactory.getInstance().getSfxFileReaderService()

- SFXFileReader migrated to SFXFileReaderService

app.statistics package

LogAnalyser

- Now uses a discovery query to retrieve items by accessioned date instead of a complex query.

authenticate package

AuthenticationManager refactored into: AuthenticationService

Factory usage: AuthenticateServiceFactory.getInstance().getAuthenticationService()

- Migrated to: AuthenticationService
- getSpecialGroups() method now returns a list of groups instead of array of identifiers

AuthenticationMethod

- getSpecialGroups() method now returns a list of groups instead of array of identifiers

PasswordAuthentication

- getSpecialGroups() method now returns a list of groups instead of array of identifiers

ShibAuthentication

- getSpecialGroups() method now returns a list of groups instead of array of identifiers

authority package

AuthorityValue

- getAuthorityTypes() method moved to AuthorityServiceFactory.getInstance().getAuthorTypes();
- fromSolr() method moved to AuthorityValueService.

- updateItem() method now requires context

AuthorityValueGenerator & AuthorityValueFinder refactored into: AuthorityValueService

Factory usage: AuthorityServiceFactory.getInstance().getAuthorityValueService();

- Migrated into AuthorityValueService

AuthorityIndexClient

- indexItem() method moved to AuthorityService

authorize Package

AuthorizeManager refactored into: AuthorizeService

Factory usage: AuthorizeServiceFactory.getInstance().getAuthorizeService()

- getAuthorizedGroups now returns a list instead of an array of groups
- isAnIdenticalPolicyAlreadyInPlace now requires a group as argument instead of a group identifier
- isAnIdenticalPolicyAlreadyInPlace with dsoType & dsold parameters has been removed, use the one which passes a DSpaceObject.
- removeGroupPolicies(Context c, int groupId) now requires a group instead of a group identifier
- getAuthorizedGroups now returns a list instead of an array of groups
- findByTypeIdGroupAction(Context c, int dsoType, int dsold, int groupId, int action, int policyID) has been changed to use Group & DSpaceObject instead of integers.
- createOrModifyPolicy groupId parameter has been adjusted to use the group object

PolicySet

- setPolicies() methods now require UUIDs instead of integers

ResourcePolicy refactored into: ResourcePolicy & ResourcePolicyService

Factory usage: AuthorizeServiceFactory.getInstance().getResourcePolicyService()

- setResource() renamed to setdSpaceObject()
- update(context) now also requires an object to update
- delete(context) now also requires an object to delete

Browse package

General

Removed the following classes since this isn't supported any more:

- BrowseCreateDAOPostgres
- BrowseCreateDAOOracle
- BrowseDAOUtilsOracle
- BrowseDAOUtilsPostgres
- BrowseItemDAOOracle
- BrowseItemDAOPostgres
- ItemCountDAOOracle
- ItemCountDAOPostgres
- BrowseDAOOracle
- BrowseDAOPostgres

BrowseItem (Deleted)

- Class has been removed, uses Item/ItemService now

BrowseItemDAO (Deleted)

- Class has been removed, use ItemService now

BrowseInfo

- getBrowseItemResults() now returns list of items instead of array of BrowseItem objects

- getItemResults() method removed, use getBrowseItemResults() instead

BrowseCreateDAO

- deleteByItemID(), deleteCommunityMappings(), updateCommunityMappings(), insertIndex(), updateIndex(), updateDistinctMappings(), deleteMappingsByItemID(), now require a UUID instead of an integer

BrowseDAO

- getContainerID()/setContainerID() methods now require/return a UUID instead of an integer
- oQuery() now returns items instead of browseItems

BrowseDAOFactory

- getItemInstance() method has been removed, we are now using itemService directly
- getUtils() method removed, wasn't used.

BrowseDAOUtils (Deleted)

- Class has been removed (wasn't used anymore)

BrowseDAOUtilsDefault (Deleted)

- Class has been removed (wasn't used anymore)

IndexBrowse

- itemRemoved() method now requires a UUID instead of integer
- itemMetadataProxy inner class has been removed, use Item class instead

SolrBrowseDAO

- getContainerID()/setContainerID() methods now require/return a UUID instead of an integer
- deleteByItemID(), deleteCommunityMappings(), updateCommunityMappings(), insertIndex(), updateIndex(), updateDistinctMappings(), deleteMappingsByItemID(), now require a UUID instead of an integer

Checker package

BitstreamDAO (Deleted)

- Class has been removed, use bitstreamService.retrieve to get an input stream for a bitstream

BitstreamDispatcher

- next() method uses bitstreams instead of integers

BitstreamInfoDAO (Deleted)

- Uses combo of bitstreamService & ChecksumHistoryService to perform queries

ChecksumCheckResults refactored into: ChecksumResultCode

- ChecksumCheckResults has been renamed to ChecksumResultCode and no longer is a class but an enum

ChecksumHistoryDAO

- ChecksumHistoryDAO has been moved from org.dspace.checker.ChecksumHistoryDAO to org.dspace.checker.dao.impl.ChecksumHistoryDAOImpl & code has been made hibernate compatible

DAOSupport (Deleted)

- Class removed, relied on the old Database code

ChecksumResult (New)

- ChecksumResult class created to represent a "checksum_results" table row

DspaceBitstreamInfo

- Class has been removed, was a value object for Bitstream, uses bitstream now

ChecksumResultDAO refactored into: ChecksumResultService

ReporterDAO (Deleted)

- Class removed, use MostRecentChecksumService & ChecksumHistoryService

BitstreamInfo refactored into: MostRecentChecksum

- Has been refactored into "MostRecentChecksum" class

CheckerCommand

- Constructor now requires a context

ChecksumHistory

- getBitstreamId returns a UUID
- getResult/setResult now require/return a ChecksumResult object instead of a string

ChecksumResultsCollector

- collect() method now requires a context

HandleDispatcher

- next() method returns a bitstream instead of integer
- Constructor now uses context & handle instead of BitstreamInfoDAO & handle.

ListDispatcher refactored into: IteratorDispatcher

- Renamed to IteratorDispatcher
- Now uses an iterator instead of a list for a performance boost

LimitedCountDispatcher

- next() method returns a bitstream instead of integer

LimitedDurationDispatcher

- next() method returns a bitstream instead of integer

ResultsLogger

- collect() now uses MostRecentChecksum instead of BitstreamInfo

ResultsPruner

- getDefaultPruner(), getPruner(), constructor now require a context
- addInterested() methods require a ChecksumResultCode object instead of string representation of this object.

SimpleReporter refactored into: SimpleReporterService

Factory usage: `CheckerServiceFactory.getInstance().getSimpleReporterService();`

- `getDeletedBitstreamReport()`, `getChangedChecksumReport()`, `getBitstreamNotFoundReport()`, `getNotToBeProcessedReport()`, `getUncheckedBitstreamsReport()` methods all require a context.

SimpleReporterImpl refactored into: SimpleReporterService

Factory usage: `CheckerServiceFactory.getInstance().getSimpleReporterService()`

SimpleDispatcher

- Constructor now requires a context instead of `BitstreamInfoDAO` object
- `next()` method now returns bitstream instead of integer

content package

Bitstream refactored into: Bitstream, BitstreamService

Factory usage: `ContentServiceFactory.getInstance().getBitstreamService();`

- `findAll`, `getBundles`, now return a list instead of an array
- `create` method has become public and can be called with or without a bundle. When called without a bundle the class calling on this method is responsible for linking it to the proper object (logo for community for example).
- `register` method is now public and requires a bundle parameter
- `setUserFormatDescription()`, `setFormat()`, `setName()`, `setSource()`, `setDescription()` now require a context
- `delete`, `isDeleted`, `setDeleted`, `setInternalId` methods are now public
- `delete`, `update`, `retrieve`, `getFormat()`, `getFormatDescription()` now require a context & a bitstream
- `isRegisteredBitstream` now requires a bitstream

Bundle refactored into: Bundle, BundleService

Factory usage: `ContentServiceFactory.getInstance().getBundleService();`

- `create` method has become public and must be called with an item.
- `getBitstreamByName` now requires a bundle
- `createBitstream` method has been removed from bundle, use `bitstreamService.create()` instead
- `registerBitstream` method has been removed from bundle, use `bitstreamService.registerBitstream()` instead
- `addBitstream`, `inheritCollectionDefaultPolicies`, `replaceAllBitstreamPolicies`, `getBitstreamPolicies`, `update`, `delete`, `removeBitstream` methods require a context and a bundle
- `getBundlePolicies` has been removed, use `authorizeService.getPolicies`
- `delete` is now public
- `setOrder` now requires a context a bundle & a list of UUIDS instead of integers
- `getItems` now returns a list instead of an array
- `getPrimaryBitstreamID` & `setPrimaryBitstreamID` now renamed to `getPrimaryBitstream` & `setPrimaryBitstream` and require/return a bitstream
- `setName()`, `getBundlePolicies()` now requires a context

BitstreamFormat refactored into: BitstreamFormat, BitstreamFormatService

Factory usage: `ContentServiceFactory.getInstance().getBitstreamFormatService();`

- `findAll`, `findNonInternal` now return a list instead of an array.
- `setShortDescription` is set on `BitstreamFormatService` & requires a context and the `bitstreamformat` alongside the description.
- `getSupportLevelText`, `setSupportLevel` now require a `bitstreamformat` since they have been moved to the service.
- `update`, `delete` now require a context and the `bitstream format`.
- `getExtensions` & `setExtensions` now return/require a list instead of an array.

Collection refactored into: Collection, CollectionService

Factory usage: `ContentServiceFactory.getInstance().getCollectionService();`

- `create` methods have been made public
- `findAll()`, `findAuthorized()`, `getCommunities()`, `findDirectMapped()`, `findGroup2CommunityMapped()`, `findGroup2GroupMapped()`, `findGroupMapped()` methods now return a list instead of an array
- `getItems()` methods have been moved to the `itemService` and has been renamed to `findByCollection()`
- `getAllItems()` method has been moved to the `itemService` and has been renamed to `findAllByCollection()`

- `getWorkflowGroup()`, `getLicense()`, `hasCustomLicense()`, `setWorkflowGroup()` methods now require a collection parameter
- `setMetadata()`, `setLogo()`, `createWorkflowGroup()`, `createSubmitters()`, `createAdministrators()`, `removeAdministrators()`, `createTemplateItem()`, `removeTemplateItem()`, `addItem()`, `removeItem()`, `canEditBoolean()`, `canEdit()` methods now require a context and collection parameter.
- `setLicense()` now requires a context.
- `countItems()` method moved to `itemService`

Community refactored into: Community, CommunityService

Factory usage: `ContentServiceFactory.getInstance().getCommunity();`

- `findAll`, `findAllTop` now return list instead of array
- `getMetadata` method now requires community as param
- `setMetadata`, `setLogo`, `createAdministrators`, `removeAdministrators`, `getAllParents`, `getAllCollections`, `addCollection`, `createSubcommunity`, `addSubcommunity`, `removeCollection`, `removeSubcommunity`, `delete`, `canEditBoolean` methods now require context & community as param
- `getCollections`, `getSubcommunities`, `getAllParents`, `getAllCollections` now return a list instead of an array
- `createCollection` has moved to the collection service
- `getParentCommunity` has been renamed to `getParentCommunities` now returns a list of communities since it is possible in the code to have multiple parent communities
- `countItems` now requires a context

DSpaceObject refactored into: DSpaceObjectService

Factory usage: `ContentServiceFactory.getInstance().getDSpaceLegacyObjectService(type)`

- `getIdentifiers` now returns a list instead of an array
- `getParentObject` now requires a context & the `dspaceObject` you want the parent for
- `updateLastModified` now requires context & the `dspaceObject` you want to update
- `update()` now requires context & the `dspaceObject` you want to update
- deprecated `getDC`, `addDC` methods have been removed
- `getMetadata` methods now return a list of metadata values instead of an array of `Metadatum`
- `getElements(String fieldName)` & `getElementsFilled(String fieldName)` have been made protected, wasn't used outside of the object
- `replaceMetadataValue` has been removed, use the setters on `metadataValue` instead.
- `addMetadata`, `getMetadata` & `clearMetadata` methods now require a `dspaceObject` as a parameter
- `addMetadata` & `clear metadata` require a context as a parameter
- `addMetadata` has been altered to use lists instead of arrays to pass repeatable params
- `find(context, type, id)` method has been removed, use: `ContentServiceFactory.getInstance().getDSpaceObjectService(type).find(context, id)` instead
- finding by legacy id can be done using:
- `ContentServiceFactory.getInstance().getDSpaceLegacyObjectService(type).findByIdOrLegacyId(context, String id)`
- `resetIdentifiersCache()` has been removed, caching is not used, hibernate takes care of the caching for us.
- `getAuthoritiesAndConfidences()` method now requires a collection.

FormatIdentifier (Deleted)

- Class has been removed, uses `BitstreamFormatService.guessFormat()` instead

InProgressSubmission refactored into: InProgressSubmission, InProgressSubmissionService

Factory usage: `ContentServiceFactory.getInstance().getInProgressSubmissionService(submissionInfo)`

- `deleteWrapper()`, `update()` methods moved to `InProgressSubmissionService`

InstallItem refactored into: InstallItemService

Factory usage: `ContentServiceFactory.getInstance().getInstallItemService();`

- method `getBitstreamProvenanceMessage()` now requires a context.

Item refactored into: Item, ItemService

Factory usage: `ContentServiceFactory.getInstance().getItemService();`

- `create` is now public & requires a `workspaceItem` (if the workspace item is linked to another item an exception will be thrown).
- `isIn()`, `getBundles(String name)`, `isOwningCollection()`, `hasUploadedFiles()` require an item
- `getCommunities()`, `addBundle()`, `removeBundle()`, `createSingleBitstream()`, `removeDSpaceLicense()`, `removeLicenses()`, `withdraw()`, `reinstate()`, `delete()`, `replaceAllItemPolicies()`, `replaceAllBitstreamPolicies()`, `removeGroupPolicies()`, `getNonInternalBitstreams()`, `inheritCollectionDefaultPolicies()`, `adjustBundleBitstreamPolicies()`, `adjustItemPolicies()`, `move()`, `getCollectionsNotLinked()`, `canEdit()` now require a context and an item

- getCommunities, getBundles, getNonInternalBitstreams, getCollectionsNotLinked(), getCollections() now return a list instead of an array
- createBundle has been removed, creating of a bundle is now done in the BundleService
- item deletion is now public
- findByMetadataField(), findByAuthorityValue(), findByMetadataFieldAuthority() now return an Iterator<Item> instead of ItemIterator
- getThumbnail now requires an item instead of an itemid

ItemDAO

- Is now an interface instead of a class and has become part of the DAO, model, is no longer public. Use itemService instead.

ItemDAOFactory (Deleted)

- Class has been removed, DAO's are autowired into the services & no factories are present

ItemDAOOracle (Deleted)

ItemDAOPostgres (Deleted)

ItemIterator (Deleted)

- You can now use Iterator<Item>

ItemService

- Has now become an interface
- getThumbnail is available in this interface
- getFirstMetadataValue removed use

MetadataAuthorityManager refactored into: MetadataAuthorityService

Factory usage: ContentAuthorityServiceFactory.getInstance().getMetadataAuthorityService();

- isAuthorityControlled now requires a metadata field object instead of schema, element, qualifier, ..
- isAuthorityRequired now requires a metadata field object instead of schema, element, qualifier, ...
- getMinConfidence now requires a metadata field object instead of schema, element, qualifier

Metadatum (Deleted)

- Class has been removed, MetadataValue is used

MetadataField refactored into: MetadataField, MetadataFieldService

Factory usage: ContentServiceFactory.getInstance().getMetadataFieldService();

- create(Context context) method has been moved to MetadataFieldService.create(Context, MetadataSchema, element, qualifier, scopeNote)
- findByElement now requires a metadataSchema OR a metadata schema name instead of an identifier
- findAllInSchema now requires a schema instead of the identifier of a schema
- update(context) now also requires an object to update
- delete(context) now also requires an object to delete
- formKey has been removed, use the toString() method from a metadataField
- findAll, findAllInSchema now return lists instead of arrays

MetadataSchema refactored into: MetadataSchema, MetadataSchemaService

Factory usage: ContentServiceFactory.getInstance().getMetadataSchemaService();

- MetadataSchema.DC_SCHEMA_ID has been removed, best to use the lookup by name.
- MetadataSchema(String namespace, String name) constructor has been moved to metadataSchemaService.create(Context context, String namespace, String name)
- create(Context context) method has been moved to metadataSchemaService.create(Context context, String namespace, String name)
- update(context) now also requires an object to update
- delete(context) now also requires an object to delete
- findAll now returns a list instead of array

MetadataValue refactored into: MetadataValue, MetadataValueService

Factory usage: `ContentServiceFactory.getInstance().getMetadataValueService();`

- `create(Context context)` method has been moved to `metadataValueService.create(Context, DSpaceObject, MetadataField)`
- `findByField(Context context, int fieldId)` now uses a metadata field object instead of its identifier
- `update(context)` now also requires an object to update
- `delete(context)` now also requires an object to delete

SupervisedItem refactored into: SupervisedItemService

Factory usage: `ContentServiceFactory.getInstance().getSupervisedItemService();`

- `getAll()`, `findbyEPerson()` methods now return a list of `workspaceItem` objects instead of `supervisedItems`
- `getSupervisorGroups()` method has been removed, this is now a getter on `WorkspaceItem`

Site refactored into: Site, SiteService

Factory usage: `ContentServiceFactory.getInstance().getSiteService();`

- Is no longer a static object, but contains an actual database object.
- `Site.SITE_ID` is now `siteService.findSite(context).getID();`
- `Site.getSiteHandle()` is now `siteService.findSite(context).getHandle();`

WorkspaceItem refactored into: WorkspaceItem, WorkspaceItemService

Factory usage: `ContentServiceFactory.getInstance().getWorkspaceItemService();`

- When a `workspaceItem` is created the rights granted to reviewer groups used in the basic workflow are no longer hardcoded, this section has moved to the `workflowService`. This way the workflow determines which rights are granted.
- `findbyEPerson()`, `findByCollection()`, `findAll()` now return a list instead of an array.
- `update()`, `deleteWrapper()` & `deleteAll()` methods now require a context and a workspace item.

content.authority package

ChoiceAuthorityManager refactored into: ChoiceAuthorityService

Factory usage: `ContentAuthorityServiceFactory.getInstance().getChoiceAuthorityService();`

- `getLabel()`, `getVariants()` methods now requires a `metadataValue`
- `getManager()` method removed, use the factory to get an instance.
- `getMatches()`, `getBestMatch()` methods now requires a collection object instead of an identifier
- `makeFieldKey()` method has been removed, use `metadataField.toString();`

ChoiceAuthority

- `getMatches()`, `getBestMatch()` methods now require a collection instead of collection identifier

SHERPARoMEOProtocol

- `getMatches()` method now requires a collection instead of a collection identifier

content.crosswalk package

AIPDIMCrosswalk

- `disseminateList`, `disseminateElement` methods now require a context

AIPTechMDCrosswalk

- `disseminateList`, `disseminateElement` methods now require a context

DIMDisseminationCrosswalk

- disseminateList, disseminateElement methods now require a context

DisseminationCrosswalk

- disseminateList, disseminateElement methods now require a context

IngestionCrosswalk

- ingest() method requires additional boolean that indicates if metadataFields should be created prior to adding metadata.

METSDisseminationCrosswalk

- disseminateList, disseminateElement methods now require a context

METSRightsCrosswalk

- disseminateList, disseminateElement methods now require a context

MODSDisseminationCrosswalk

- disseminateList, disseminateElement methods now require a context

OREDisseminationCrosswalk

- disseminateList, disseminateElement methods now require a context

PREMISCrosswalk

- disseminateList, disseminateElement methods now require a context

QDCCrosswalk

- disseminateList, disseminateElement methods now require a context

RoleCrosswalk

- disseminateList, disseminateElement methods now require a context

SimpleDCDisseminationCrosswalk

- disseminateList, disseminateElement methods now require a context

XHTMLHeadDisseminationCrosswalk

- disseminateList, disseminateElement methods now require a context

XSLTDisseminationCrosswalk

- disseminateList, disseminateElement methods now require a context
- createDIM now requires a list of MockMetadataValue object instead of array of metadatum
- ingestDIM() methods now require an extra boolean createMissingMetadataFields

content.packager package

AbstractMETSDisseminator

- makeBitstreamURL() method now require a context

PackageUtils

- updateDSpaceObject(), removeAllBitstreams(), clearAllMetadata(), getBitstreamByFormat() methods now require a context

core package

Context

- clearCache(), removeCached(), cache(), fromCache(), getCacheSize() methods removed, hibernate takes care of our caching
- getSpecialGroups() now returns a list instead of an array of groups
- getDBConnection() is now package protected, we don't want anybody but the DAO to access it.
- setSpecialGroup() method now requires a UUID instead of an identifier
- commit() method has been removed, hibernate can only commit a transaction ONCE, everything is persisted so there should be no need for the commit method. If the events need to be flushed, a new dispatchEvents() method is available

LicenseManager refactored into: LicenseService

Factory usage: CoreServiceFactory.getInstance().getLicenseService();

NewsManager refactored into: NewsService

Factory usage: CoreServiceFactory.getInstance().getNewsService();

curate package

Curator

- setCacheLimit() method removed, no longer required since object cache is no longer used

CurationCli

- limit option removed, no longer required since object cache is no longer used

WorkflowCurator refactored into: WorkflowCuratorService

Factory usage: CurateServiceFactory.getInstance().getWorkflowCuratorService();

disseminate package

CitationDocument refactored into: CitationDocumentService

Factory usage: DisseminateServiceFactory.getInstance().getCitationDocumentService();

- getOwningCommunity(), makeCitedDocument(), canGenerateCitationVersion() methods now require a context object

embargo package

EmbargoManager refactored into: EmbargoService, EmbargoCLITool

Factory Usage: EmbargoServiceFactory.getInstance().getEmbargoService()

- Main method has moved to "EmbargoCLITool" class

eperson package

Group refactored into: Group, GroupService, GroupCLITool

Factory usage: EPersonServiceFactory.getInstance().getGroupService();

- addMember, removeMember, delete, update now require a context & group object parameters
- isMember(EPerson e) has been renamed to isDirectMember & now require a context & group object parameters
- isMember(Group g) has been renamed to isDirectMember & now requires the parent group parameter
- isMember(Context c, int groupid) now requires a group object instead of a group id
- allMemberGroups, allMembers, findAll, search, getMembers, getMemberGroups now return a list instead of an array
- allMemberGroupIDs is now removed, use allMemberGroups instead (returns a list of groups instead of identifiers)
- allMemberIDs is now removed, use allMembers instead (returns a list of epeople instead of identifiers)
- isEmpty now requires a group
- setName() now requires a context.
- Group main code moved from "Group" to "GroupCLITool"
- Finding groups sorted by identifier is no longer possible since it doesn't make sense to sort on a UUID.

EPerson refactored into: EPerson, EPersonService, EPersonCLITool

Factory usage: EPersonServiceFactory.getInstance().getEPersonService();

- search(), findAll() methods now return a list instead of an array
- setPassword(), setPasswordHash(), getPasswordHash() methods now require an ePerson
- checkPassword(), setMetadata() methods now require a context and an EPerson
- main method has moved to the "EPersonCLITool" class.
- setLanguage(), setFirstName(), setLastName() methods now require a context

Subscribe refactored into: SubscribeService, SubscribeCLITool

Factory Usage: EPersonServiceFactory.getInstance().getSubscribeService();

- Main method has moved to "SubscribeCLITool" class
- getSubscriptions(), now return a list of Subscription objects instead of array of collections
- getAvailableSubscriptions() now return a list instead of an array

Supervisor refactored into: SupervisorService

Factory Usage: EPersonServiceFactory.getInstance().getSupervisorService();

- isOrder().remove().add() now require workspaceItem and group objects instead of identifiers
- removeRedundant() method no longer needed, linking table is auto cleared when deleting a workspaceItem/group.

AccountManager refactored into: AccountService

Factory usage: EPersonServiceFactory.getInstance().getAccountService();

event package

Event

- Constructor now requires an ArrayList of identifiers instead of an array (arrayList is used because it is cloneable)
- Constructors now require UUIDs as object id's instead of integers
- getIdentifiers now returns a list instead of array

EventManager refactored into: EventService

Factory Usage: EventServiceFactory.getInstance().getEventService();

handle package

HandleManager refactored into: HandleService

Factory Usage: HandleServiceFactory.getInstance().getHandleService();

UpdateHandlePrefix

Script has been improved to update metadataValue objects instead of a regular query. The benefit is that the indexes & last modified dates are also updated.

harvest package

HarvestedItem refactored into: HarvestedItem, HarvestedItemService

Factory usage: `HarvestServiceFactory.getInstance().getHarvestedItemService();`

- exists method removed, wasn't used
- find, create methods now require item object instead of item id
- findByOAIId now requires collection object instead of collection identifier
- update, delete now require a context & HarvestedItem objects
- getItemId renamed to getItem & now returns item object

HarvestedCollection refactored into: HarvestedCollection, HarvestedCollectionService

Factory usage: `HarvestServiceFactory.getInstance().getHarvestedCollectionService();`

- find(), create(), isHarvestable(), isReady() methods now require collection object instead of collection identifier
- isHarvestable(), isReady() methods now require a harvestedCollection object
- findAll, findReady, findByStatus, findOldestHarvest, findNewestHarvest, now return HarvestedCollection object(s) instead of integer(s)
- getCollectionId renamed to getCollection() now returns a collection
- setHarvestResult method removed, use setLastHarvested & setHarvestMessage

OAIHarvester

- HarvestScheduler, HarvestThread inner classes have moved to separate classes
- The scheduling logic of the Harvester has been moved to the "HarvestSchedulingService" class
 - Usage: `HarvestServiceFactory.getInstance().getHarvestSchedulingService()`
- scrubMetadata() internal method that created metadata fields/schema's has moved to the IngestionCrosswalk class

identifier package

DOI refactored into DOI, DOIService

Service Usage: `IdentifierServiceFactory.getInstance().getDOIService();`

DOIIdentifierProvider

- getDOIOutOfObject, getObjectByDOI methods are no longer static, the only static call they had was from the unit test.

DOIOrganiser

- getDOIsByStatus() method removed use DOIService.getDOIsByStatus()
- register, reserve, update, methods now require a DOI instead of a tableRow & DSpaceObject
- findTableRow renamed to resolveToDOI and now returns a DOI instead of tableRow

IdentifierService

- lookup() method now returns a list instead of an array

license package

CreativeCommons refactored into: CreativeCommonsService

Service Usage: `LicenseServiceFactory.getInstance().getCreativeCommonsService();`

- getCCField() method now returns a LicenseMetadataValue instead of an internal class MdField
- getLicenseURL(), getLicenseText(), getLicenseRDF() now require a context

rdf package

RDFUtil

- generateIdentifier, delete methods now use a UUID as dso identifier & a list of identifiers

rdf.conversion package

SimpleDSORelationsConverterPlugin

- bitstreamURI method also requires a context

rdf.storage package

DOIURIGenerator

- generateIdentifier now requires a list of identifiers instead of array and a UUID instead of an integer as DSpaceObject identifier

HandleURIGenerator

- generateIdentifier now requires a list of identifiers instead of array and a UUID instead of an integer as DSpaceObject identifier

LocalURIGenerator

- generateIdentifier now requires a list of identifiers instead of array and a UUID instead of an integer as DSpaceObject identifier

URIGenerator

- generateIdentifier now requires a list of identifiers instead of array and a UUID instead of an integer as DSpaceObject identifier

statistics package

ElasticSearchLogger refactored into: ElasticSearchLoggerService

Factory usage: StatisticsServiceFactory.getInstance().getElasticSearchLoggerService();

- getInstance() method removed, use the factory method from above

SolrLogger refactored into: SolrLoggerService

Factory usage: StatisticsServiceFactory.getInstance().getSolrLoggerService();

storage.bitstore package

BitstreamStorageManager refactored into BitstreamStorageService

Factory Usage: StorageServiceFactory.getInstance().getBitstreamStorageService()

- store() & register methods now requires a bitstream and returns a UUID
- retrieve now requires a bitstream instead of a bitstream identifier
- delete(context, bitstreamid) has been removed, use bitstreamService.delete() instead.

requestitem package

RequestItem

Factory usage: RequestItemServiceFactory.getInstance().getRequestItemService()

- public constructor removed, use factory method from above
- bitstreamId getter & setters now require bitstream instead of bitstream identifier
- itemId getter & setters now require item instead of item identifier
- update method now requires requestItem object
- getNewToken moved to the new create method, requires same parameters as the old constructor

version package

Version

- Interface replaced by Database entity

VersionDAO

- Has moved to the DAO sub package and been split into VersionDAO (interface) & VersionDAOImpl (the new DAO implementation)

VersionHistory

- Interface replaced by Database entity

VersionHistoryDAO

- Has moved to the DAO sub package and been split into VersionHistoryDAO (interface) & VersionHistoryDAOImpl (the new DAO implementation)

VersionHistoryImpl refactored into: VersionHistoryService

Factory usage: DSpaceVersionServiceFactory.getInstance().getVersionHistoryService();

- getLatestVersion(), getFirstVersion(), getPrevious(), getNext(), hasNext(), add(), getVersion(), isFirstVersion(), isLastVersion(), remove(), now require a VersionHistory object

VersionImpl, VersioningService, VersioningServiceImpl refactored into: VersioningService

Factory usage: DSpaceVersionServiceFactory.getInstance().getVersioningService();

- createNewVersion(), findVersionHistory(), updateVersion(), methods require item object instead of item identifier
- removeVersion(), restoreVersion() methods require a version object instead of identifier

workflow package

WorkflowItem refactored into: Interface (old usage moved to: BasicWorkflowItem)

- Has now become an interface, to use the original WorkflowItem class check BasicWorkflowItem (this is an implementation of workflowItem).
- findByEPerson() method has been renamed to findBySubmitter & is also available from the WorkflowItemService

WorkflowManager refactored into: WorkflowService (old usage moved to BasicWorkflowService)

- Renamed to WorkflowService and has become an interface, to use the old WorkflowManager look at BasicWorkflowService & BasicWorkflowServiceImpl

workflowbasic package (new)

TaskListItem, TaskListItemService

Factory usage: BasicWorkflowServiceFactory.getInstance().getTaskListItemService();

- A new class "TaskListItem" has been created with a service & dao interface + implementation. Querying this table was done in the old workflowManager, but this has been extracted from it.

BasicWorkflowItem (previously WorkflowItem)

Factory usage: WorkflowServiceFactory.getInstance().getWorkflowItemService(); OR BasicWorkflowServiceFactory.getInstance().getBasicWorkflowItemService();

- The old WorkflowItem class now extends WorkflowItem (which in turn extends the InProgressSubmission)
- findAll(), findByCollection(), findBySubmitter() methods now return a list instead of an array
- findByEPerson has been renamed to findBySubmitter and returns a list instead of an array
- deleteWrapper(), update() now require a context and a BasicWorkflowItem

BasicWorkflowService (previously WorkflowManager)

Factory usage: WorkflowServiceFactory.getInstance().getWorkflowService(); OR BasicWorkflowServiceFactory.getInstance().getBasicWorkflowService();

- abort now returns a workspace item (used to be void)
- notifyOfCuration() now requires a list of EPeople instead of an array
- archive() method is now public
- reject has been renamed to sendWorkflowItemBackSubmission and requires a "provenancePrefix" (not used in the basic workflow)

xmlWorkflow package

ClaimedTask refactored into: ClaimedTask, ClaimedTaskService

Factory usage: XmlWorkflowServiceFactory.getInstance().getClaimedTaskService();

- findByWorkflowId renamed to findByWorkflowItem & now requires an XmlWorkflowItem instead of id
- findByWorkflowIdAndEPerson renamed to findByWorkflowAndEPerson & now requires XmlWorkflowItem & EPerson objects instead of an id
- findByEperson requires an EPerson object
- All "find" methods now require objects instead of identifiers
- delete(), update() now require a context & a claimedTask object
- setOwnerId/getOwnerId renamed to getOwner/setOwner and returns/requires an EPerson
- setWorkflowItemId/getWorkflowItemId renamed to getWorkflowItem/setWorkflowItem and returns/requires an XmlWorkflowItem

CollectionRole refactored into: CollectionRole, CollectionRoleService

Factory usage: XmlWorkflowServiceFactory.getInstance().getCollectionRoleService();

- find() methods now require a collection object instead of an identifier
- find() method now returns a list instead of an array
- create method now also requires a collection, roleId & group
- delete(), update() now require a context & a collectionRole object
- setCollectionId/getCollectionId renamed to setCollection/getCollection and requires/returns a collection object
- setGroupId renamed to setGroup

InProgressUser refactored into: InProgressUser InProgressUserService

Factory usage: XmlWorkflowServiceFactory.getInstance().getInProgressUserService();

- findByWorkflowItemAndEPerson now requires an XmlWorkflow item & an EPerson object instead of two identifiers
- findByEperson now requires an EPerson object instead of an identifier
- findByWorkflowItem(), getNumberOfInProgressUsers(), getNumberOfFinishedUsers() now require an Xmlworkflow item object instead of an identifier
- delete(), update() now require a context & an InProgressUser object
- setUserId/getUserId renamed to setUser/getUser and now require/return an EPerson object
- setWorkflowItemId/getWorkflowItemId renamed to setWorkflowItem/setWorkflowItem and now require/return an XmlWorkflow item object

XmlWorkflowServiceFactory.getInstance().getPoolTaskService();

- findByEperson() method now requires an EPerson object instead of an identifier
- findByWorkflowIdAndEPerson() method requires an EPerson & XmlWorkflowItem object instead of identifiers
- delete(), update() now require a context & a PoolTask object
- setEpersonId/getEpersonId renamed to setEperson/getEperson and now require/return an EPerson object
- setGroupId/getGroupId renamed to setGroup/getGroup and now require/return a Group object

- setWorkflowItemID/getWorkflowItemID renamed to setWorkflowItem/getWorkflowItem and now require/return an XmlWorkflowItem object

RoleMembers

- removeEperson now requires an EPerson object instead of an identifier

WorkflowItemRole refactored into: WorkflowItemRole, WorkflowItemRoleService

Factory usage: XmlWorkflowServiceFactory.getInstance().getWorkflowItemRoleService()

- find(), findAllForItem() methods now require an XmlWorkflowItem instead of an identifier & returns a list instead of an array.
- delete(), update() now require a context & a WorkflowItemRole object
- setWorkflowItemID/getWorkflowItemID renamed to setWorkflowItem/setWorkflowItem and now require/return an XmlWorkflow item object

WorkflowRequirementsManager refactored into: WorkflowRequirementsService

Factory usage: XmlWorkflowServiceFactory.getInstance().getWorkflowRequirementsService();

WorkflowUtils

- createCollectionWorkflowRole(), getRoleGroup() methods now require a collection instead of an identifier

XmlWorkflowItem refactored into: XmlWorkflowItem, XmlWorkflowItemService

Factory usage: WorkflowServiceFactory.getInstance().getWorkflowItemService(); OR XmlWorkflowServiceFactory.getInstance().getXmlWorkflowItemService();

- create now requires an item & a collection.
- findAll(), findByCollection methods now return a list instead of an array
- findAllInCollection() method now returns a list instead of an array and requires a collection object instead of an identifier
- countAllInCollection() method now request a collection instead of an identifier
- findByEPerson has been renamed to findBySubmitter and returns a list instead of an array
- deleteWrapper(), update() now require a context and an XmlWorkflowItem

WorkflowFactory refactored into: XmlWorkflowFactory

Factory Usage: XmlWorkflowServiceFactory.getInstance().getWorkflowFactory()

- XmlWorkflowFactory has been moved to the factory sub package and is now an interface

XmlWorkflowManager refactored into: XmlWorkflowService

Factory usage: WorkflowServiceFactory.getInstance().getWorkflowService(); OR BasicWorkflowServiceFactory.getInstance().getXmlWorkflowService();