

Intermezzo

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1.2.10 (January 24th, 2017)

Upgrading from 1.2.9? There are [some notes](#) about this.

Bug

- [SYNCOPE-963] - Various content upgrade "edge case" failures
- [SYNCOPE-965] - Cron expression for scheduled job is not saved from the console
- [SYNCOPE-973] - NotFound error returned by user create under high load
- [SYNCOPE-975] - Search case insensitive ilike operator triggers search validation
- [SYNCOPE-976] - Duplicated events shown by admin console for notifications and audit
- [SYNCOPE-999] - REST exception mapper overwrites Spring Security response

Improvement

- [SYNCOPE-971] - Case insensitive search
- [SYNCOPE-983] - Search performance improvement with mandatory schemas only

1.2.9 (October 7th, 2016)

Upgrading from 1.2.8? There are [some notes](#) about this.

Bug

- [SYNCOPE-876] - Fake after object reported by propagation in case of delete
- [SYNCOPE-923] - Sync / Pull task not configured for delete causes incremental sync to prematurely stop
- [SYNCOPE-928] - Table that stores user passwords store duplicate entries
- [SYNCOPE-929] - Braces are ignored for FIQL strings
- [SYNCOPE-936] - Sync token reset to NULL when no SyncDelta items are available
- [SYNCOPE-939] - Password history not checked when user changes password
- [SYNCOPE-943] - Security question gets deleted when changing a user attribute in the console
- [SYNCOPE-954] - Wicket exception when running an enable or disable action

Improvement

- [SYNCOPE-877] - Better handling of not found exception logged at global policy retrieval time
- [SYNCOPE-949] - Leave WebApplicationException to default processing

1.2.8 (June 3rd, 2016)

Upgrading from 1.2.7? There are [some notes](#) about this.

Bug

- [SYNCOPE-768] - Missing records in case of user list ordered by nullable schema
- [SYNCOPE-769] - Sync performance decrease
- [SYNCOPE-800] - Synchronization fails in case of accountId mapped on derived attribute starting with literal
- [SYNCOPE-840] - REST API doc url breaks without trailing slash

Improvement

- [SYNCOPE-767] - Password Policy: mustn't contain value of the following attributes case insensitive
- [SYNCOPE-804] - Support the explanation of the Connector Configuration properties
- [SYNCOPE-815] - Configure standalone to log under \$CATALINA_HOME/logs
- [SYNCOPE-855] - Synchronization token management enhancement in case of errors
- [SYNCOPE-858] - Ensure afterObject is provided after propagation

New Feature

- [SYNCOPE-856] - Allow to provision all group's members upon request

1.2.7 (January 15th, 2016)

Upgrading from 1.2.6? There are [some notes](#) about this.

Bug

- [SYNCOPE-729] - Skipped remote update during resource assignment if connector CREATE capability is not provided
- [SYNCOPE-735] - Acitiviti history tables uncontrolled growth
- [SYNCOPE-739] - Virtual attributes are not updated after a sync task
- [SYNCOPE-741] - Tasks page unusable when a task has thousand executions

Improvement

- [SYNCOPE-748] - Selectively delete task and report executions
- [SYNCOPE-751] - Preview for PDF binary values

1.2.6 (November 5th, 2015)

Bug

- [SYNCOPE-686] - Indirect LDAP resource provisioning fails on missing password
- [SYNCOPE-691] - Multivalue virtual attribute does not work
- [SYNCOPE-702] - Documentation issue on Architecture section
- [SYNCOPE-707] - ConfigurationLogic doesn't check the existence of key during deletion.
- [SYNCOPE-710] - Password propagation not occurring if other updates are set on different resources
- [SYNCOPE-712] - Error while searching roles by parent
- [SYNCOPE-716] - Cannot specify conversion pattern during schema creation
- [SYNCOPE-717] - Inconsistent double attribute value management

Improvement

- [SYNCOPE-708] - Conform the Logger "service stack" to others

1.2.5 (July 28th, 2015)

Upgrading from 1.2.4? There are [some notes](#) about this.

Bug

- [SYNCOPE-668] - JobInstanceLoader class is not able to return the correct Task id or Report id from its job name
- [SYNCOPE-669] - Search filter in the notifications doesn't work properly
- [SYNCOPE-670] - Propagation miss all UserMod's changes performed by the Activiti update service task
- [SYNCOPE-671] - Changed password value is not propagated to external resources on successful password reset
- [SYNCOPE-672] - Console doesn't display the right condition when configuring a search filter with a resource
- [SYNCOPE-673] - Null ids in SyncJob report
- [SYNCOPE-677] - Cannot override console's landing page
- [SYNCOPE-678] - Password generation fails with no password policy or no min / max length
- [SYNCOPE-682] - NPE when defining resources for pass-through authentication
- [SYNCOPE-683] - Cannot unassign and reassign role with membership attrs to user
- [SYNCOPE-684] - Password not updated on external resources from self-service

Improvement

- [SYNCOPE-660] - Extend control over asynchronous job execution
- [SYNCOPE-667] - simplification of admin roles filter query used in search
- [SYNCOPE-674] - NotificationManager should be able to return a list of created task ids
- [SYNCOPE-676] - Option for getting simplified list of users and roles

1.2.4 (May 5th, 2015)

Bug

- [SYNCOPE-654] - Some generic and uninformative error messages
- [SYNCOPE-655] - Files under /etc/apache-syncope ignored
- [SYNCOPE-656] - Debian configuration files overwritten
- [SYNCOPE-658] - Duplicate derived attribute after sync task when it is configured as accountid for the synced resource
- [SYNCOPE-659] - Wrong fasterxml.jackson, common-lang3 version in the Import-Package in the syncope-common, syncope-client
- [SYNCOPE-664] - Empty string values not allowed with Oracle DB

Improvement

- [SYNCOPE-663] - Option to ignore users / roles during synchronization or push

1.2.3 (March 20th, 2015)

Upgrading from 1.2.2? There are [some notes](#) about this.

Bug

- [SYNCOPE-638] - MAttrTemplate and RAttrTemplate sequence values are not managed in content.xml
- [SYNCOPE-639] - Notification 'recipientAttrType' and 'recipientAttrName' are not required

- [SYNCOPE-641] - Concurrency issues with multiple client threads
- [SYNCOPE-643] - WorkflowResult provides unmodifiable collection for performed tasks
- [SYNCOPE-644] - Error during synchronization of roles when using a RoleSchema as accountId
- [SYNCOPE-647] - Problem during propagation of an updated membership on a resource
- [SYNCOPE-649] - Paged lists not working properly

Improvement

- [SYNCOPE-634] - performance optimization for content loading
- [SYNCOPE-640] - Allow MariaDB to be chosen with installer
- [SYNCOPE-645] - Provide validation error message when add a role attribute in a user mapping as accountId
- [SYNCOPE-646] - Do not propagate password if not explicitly requested
- [SYNCOPE-648] - Notification Configuration: missing some labels in events
- [SYNCOPE-651] - SyncopeUser.checkToken() should fail if token is not set on user

Task

- [SYNCOPE-633] - Add support for MariaDB
- [SYNCOPE-635] - Upgrade CSVDir connector bundle dependency version

1.2.2 (January 30th, 2015)

Upgrading from 1.2.1? There are [some notes](#) about this.

Bug

- [SYNCOPE-607] - Error when adding a value to a multivalue configuration parameter of type long
- [SYNCOPE-608] - Cannot configure audit for AuthenticationController
- [SYNCOPE-610] - Installer doesn't update the console.properties with the container port
- [SYNCOPE-611] - An approver displays all approval tasks including those not assigned to him
- [SYNCOPE-613] - delete overridable connector configuration property of type array String in resource edit panel
- [SYNCOPE-614] - NotificationJob fails with NullPointerException
- [SYNCOPE-615] - Updating properties and xml files of the installer module with the current version
- [SYNCOPE-617] - User/role schema attribute with minus symbol in name
- [SYNCOPE-625] - Build fails with Java 6
- [SYNCOPE-629] - ATTRTEMPLATE entities not exported
- [SYNCOPE-632] - Errors during update propagation when derived attribute is configured as account id

Improvement

- [SYNCOPE-612] - explicit configuration of Velocity logging
- [SYNCOPE-616] - Improving the management of the xml and properties files inside the installer
- [SYNCOPE-621] - Reduce log level of bean validation errors (in data binder)
- [SYNCOPE-622] - Improve VirAttrCache management
- [SYNCOPE-630] - Eliminate duplicate Syncope WADL methods

1.2.1 (November 17th, 2014)

The first maintenance release brings a whole set of fixes (especially from the admin console) and few improvements including a new feature which allows to configure which attributes to display on user's and role's forms.

Upgrading from 1.2.0? There are [some notes](#) about this.

Bug

- [SYNCOPE-554] - Class Cast Exception when synchronization task starts
- [SYNCOPE-557] - Exception during report execution when matching condition is not provided for user and role reportlets
- [SYNCOPE-560] - build-tools classes artifact not published to Maven repository
- [SYNCOPE-561] - HTML reports not displayed correctly with no external resources
- [SYNCOPE-562] - Duplicated configuration parameters in the CATTR table
- [SYNCOPE-564] - Error while viewing user details in approval request workflow from Approvers login
- [SYNCOPE-565] - Error on ResourceModalPage when override a SpinnerField in the ConnectorModalPage
- [SYNCOPE-566] - Name attribute value disappears after changing attribute type during schema manipulation
- [SYNCOPE-567] - Security question is not displayed correctly during password reset
- [SYNCOPE-568] - Connectors configuration "check connection"
- [SYNCOPE-569] - The user status is not propagated on the resources
- [SYNCOPE-571] - ResourceConnConfPanel feedback panel does not work
- [SYNCOPE-572] - overridable resource connector properties cannot be changed
- [SYNCOPE-574] - NullPointerException in ConnInstanceDataBinder with Java 8
- [SYNCOPE-576] - The values of configuration parameters are not saved
- [SYNCOPE-578] - Role bulk delete not working
- [SYNCOPE-596] - Standalone persistence not configured for H2
- [SYNCOPE-597] - Error when serializing SyncToken with byte array type during sync task from Active Directory
- [SYNCOPE-598] - Push Task fails on role with LDAP resource with rolemapping defined
- [SYNCOPE-600] - Approval chains do not work from second form onwards
- [SYNCOPE-601] - AD deleted object synchronization fails if a sync policy is specified on one or more attributes that can have no values on Syncope
- [SYNCOPE-603] - Remote unauthorized exception when a user makes a request to add a role to his profile
- [SYNCOPE-605] - Impossible to update the connector capabilities

Improvement

- [SYNCOPE-570] - Remove usage of deprecated com.thoughtworks.selenium.Selenium
- [SYNCOPE-575] - Choose between stable and snapshot release
- [SYNCOPE-599] - Enhance console's authorization.xml parsing
- [SYNCOPE-602] - Make form approver available as workflow variable
- [SYNCOPE-604] - allow configuring empty connid location list

New Feature

- [SYNCOPE-558] - Ability to configure which user, role and membership attributes to display, and in which order

Task

- [SYNCOPE-573] - Upgrade ConnId connectors to latest versions featuring ConnId 1.4.0.0

1.2.0 (October 3rd, 2014)

After a single milestone release, here is the official Apache Syncope 1.2.0 Intermezzo, fixing some bugs found in M1 and introducing some enhancements and, most of all, the long-awaited [password reset](#) feature.

Upgrading from 1.2.0-M1? There are [some notes](#) about this.

Sub-task

- [SYNCOPE-529] - Install through HTTP proxy
- [SYNCOPE-552] - Provide Activiti modeler installation feature to installer

Bug

- [SYNCOPE-547] - Cannot send e-mails out when SMTP server requires authentication
- [SYNCOPE-548] - Provide Activiti Modeler setup instructions
- [SYNCOPE-549] - Activiti Modeler always show the default workflow definition

- [\[SYNCOPE-551\]](#) - Admin console shows 24 roles at most in the role tree
- [\[SYNCOPE-553\]](#) - Internal Server Error when creating account policy
- [\[SYNCOPE-556\]](#) - Error in the enum schema when trying to add new enumeration value/label

Improvement

- [\[SYNCOPE-550\]](#) - Provide cleaner user workflow definition for production
- [\[SYNCOPE-555\]](#) - check for id != 0 in *Controller.resolveReference()

New Feature

- [\[SYNCOPE-135\]](#) - Password reset
- [\[SYNCOPE-143\]](#) - GUI Installer

1.2.0-M1 (September 8th, 2014)

Upgrading from 1.1.X? There are [some notes](#) about this.

We welcome your help and feedback. For more information on how to report problems, and to get involved, visit the [project website](#).

What's new

GUI installer

Apache Syncope finally provides a simple way to create and maintain a custom project, configure some properties - like as the RDBMS for internal storage - and deploy to one of supported Java EE containers.

DEB packages

.deb packages are available for easy deployment on Debian GNU / Linux and Ubuntu.

Workflow

Besides the XML editor available since previous versions, a new graphical editor based on [Activiti Modeler](#) is now provided, allowing easier workflow management from within the Syncope web admin console.

Activiti is also supported to its latest version 5.16.2.

REST

After making the non-standard Spring-MVC interface [deprecated in 1.1.0](#), the RESTful interface has been extensively improved:

- JAX-RS 2.0 via [Apache CXF 3.0](#)
- JAX-RS search via [Feed Item Query Language](#)
- Support for Prefer header
- Support for ETag header
- Returning error information via X-Application-Error-Code and X-Application-Error-Info
- Live documentation, dynamically generated from WADL
- Java client library

External resource management

- Fine-grain control over the relationship among internal entities (say users) and external accounts: (un)link, (un)associate, (de)provision
- Pass-through authentication: flexible authentication of Syncope REST services and admin console against internal storage or one of connected resources

- Support for synchronizing and propagating non-cleartext values - allowing to manage encrypted passwords from external resources
- Connld 1.4.0.0

Other

- Various notification improvements
- Support for binary and encrypted values - either for users, roles and memberships
- Logback replaced by Apache Log4j 2 with its insane performance

Issues

Sub-task

- [SYNCOPE-246] - Remove collection setters in transfer objects for JAXB marshalling
- [SYNCOPE-271] - Review REST interface methods and introduce @Deprecated
- [SYNCOPE-286] - Remove Spring MVC
- [SYNCOPE-471] - Provide matching/unmatchig rule management for push tasks
- [SYNCOPE-472] - Provide user filter rule management for push task
- [SYNCOPE-473] - Provide configuration interface for push tasks
- [SYNCOPE-521] - use newer HttpClient 4.3 instead on legacy 3.1
- [SYNCOPE-522] - Use newer Jackson
- [SYNCOPE-523] - Remove dependencies of MySQL and PostgreSQL JDBC drivers
- [SYNCOPE-525] - Https support
- [SYNCOPE-526] - Test in Windows environment
- [SYNCOPE-528] - Check Oracle and SqlServer database connection
- [SYNCOPE-530] - Wiki page
- [SYNCOPE-541] - Add configuration directory field
- [SYNCOPE-542] - Improve feedback messages and logs

Bug

- [SYNCOPE-285] - Complete CXF migration
- [SYNCOPE-349] - Sorting scope is limited to each page
- [SYNCOPE-351] - Errors when editing role membership assignment in notifications (About and Recipients)
- [SYNCOPE-352] - No connectors available on clean install
- [SYNCOPE-353] - UserTemplate evaluation generates unjustified attributes to be removed
- [SYNCOPE-354] - LDAP Membership propagation does not remove memberships
- [SYNCOPE-356] - Unable to set resource for role via the console
- [SYNCOPE-357] - When deleting role on external resource, also remove from there users with resource assigned only via that role
- [SYNCOPE-358] - ConnectorService#list invocation with null parameter actually calls ConnectorService#readByResource
- [SYNCOPE-360] - Removing Role mapping from External Resource fails
- [SYNCOPE-361] - When creating new report, the modal window does not close and an exception is logged
- [SYNCOPE-363] - ApacheDS not available since second run of the standalone distribution
- [SYNCOPE-364] - Rejected users are anyway propagate to associated resources
- [SYNCOPE-365] - External attribute disabled in case of schema info not available
- [SYNCOPE-366] - Uniform constraint violation building
- [SYNCOPE-367] - ConfigurationTestITCase#browseAccountPolicy Selenium test fails
- [SYNCOPE-368] - Cannot add 'RoleOwnerSchema' mapping item via console
- [SYNCOPE-369] - Wrong error message on failed login
- [SYNCOPE-370] - HTTP Status 404 adding a role to a user with IE8
- [SYNCOPE-371] - Console RuntimeException with multiple sessions for the same user
- [SYNCOPE-372] - Connector error before save
- [SYNCOPE-373] - 500 when self reading admin user
- [SYNCOPE-375] - QUARTZ tables are not written into an innodb mysql DB for an mvn generated and created project
- [SYNCOPE-376] - Console webapp does not start on Glassfish
- [SYNCOPE-377] - Exporting configuration via console causes exceptions to be thrown
- [SYNCOPE-380] - Deleting a role from admin console throws an exception
- [SYNCOPE-381] - Adding and saving roles with resources during save
- [SYNCOPE-382] - Core hangs for a very long time (1h+ and then resumes) after a CLI role create and list
- [SYNCOPE-383] - Failure assigning resource to an existing user
- [SYNCOPE-384] - Issues with CXF and Glassfish
- [SYNCOPE-385] - NPE when reading user assigned to resource with no mapping
- [SYNCOPE-386] - Database sync (no full reconciliation) fails with "Unsupported object class"
- [SYNCOPE-387] - Unable to synchronize deleted objects from OpenDJ
- [SYNCOPE-394] - Scheduled tasks are executed without transaction support

- [SYNCOPE-396] - removeAll and retainAll in PropagationByResource dont evaluate correctly boolean expression
- [SYNCOPE-397] - Double update propagation with virtual attributes on already associated resource when changing password and adding new resource
- [SYNCOPE-398] - secretKey does not get resolved during archetype:generate
- [SYNCOPE-399] - Role attribute mapping for user mapping item doesn't result in a multivalue property
- [SYNCOPE-400] - Poor search performance on MySQL
- [SYNCOPE-401] - Deploying syncope.war with MSSQL server settings to Tomcat on Windows results in Error listenerStart
- [SYNCOPE-404] - LDAP Roles lose entitlement upon LDAP synchronization
- [SYNCOPE-414] - Cannot successfully deploy on Weblogic 12c (12.1.1)
- [SYNCOPE-417] - Users are made active when updating in NoOpWorkflowAdapter
- [SYNCOPE-418] - Special chars break REST URLs
- [SYNCOPE-419] - Meaningless error message when attempting to delete user owning role
- [SYNCOPE-423] - Improve notifications
- [SYNCOPE-426] - UserService#update and RoleService#update require entity id to be specified twice
- [SYNCOPE-433] - Counting search results fails with MySQL when OR condition is used
- [SYNCOPE-434] - Users can log in the admin console despite of their status
- [SYNCOPE-435] - Password not mandatory when subscribing external resource
- [SYNCOPE-436] - Read-only virtual attribute values not retrieved from external resource
- [SYNCOPE-437] - Wrong ID generation for new Notification instances
- [SYNCOPE-440] - Timestamp based synchronization miss events
- [SYNCOPE-452] - Generated project not starting in embedded mode
- [SYNCOPE-453] - Propagation problem with role virtual attribute mapped in user mapping
- [SYNCOPE-454] - Update user without password specification involving resource with "Generate password if missing" enabled, sends password out anyway
- [SYNCOPE-455] - Role child implicit delete won't be propagated during parent delete
- [SYNCOPE-457] - Must be able to configure JavaMailSender used by NotificationJob
- [SYNCOPE-458] - Change membership virtual attribute management
- [SYNCOPE-459] - Read-only virtual attribute cannot be added for a user by admin console
- [SYNCOPE-462] - Upgrade Spring to 3.2.7
- [SYNCOPE-465] - Selected items lost browsing paged results
- [SYNCOPE-466] - Server error when updating an existing policy to its global counterpart
- [SYNCOPE-475] - After session expired, console shows split screen
- [SYNCOPE-476] - NPE opening Roles tab
- [SYNCOPE-477] - Alert popup appears through page navigation after modal window closing
- [SYNCOPE-482] - Updating workflow definition through console XML editor doesn't really update
- [SYNCOPE-483] - Configured CSVDir connector doesn't work fine
- [SYNCOPE-489] - Feedback panel not working in workflow xml editor popup
- [SYNCOPE-490] - Problem returning to login page with manual url insertion after typing invalid username and/or password
- [SYNCOPE-495] - List of role(s) assigned to user is deleted in edit user modal page if cancel button of role modal page is clicked
- [SYNCOPE-497] - JEXL Frame positioning error
- [SYNCOPE-498] - Connector SpinnerFieldPanel required values
- [SYNCOPE-499] - Deletion of role set as parent role in template generates exception
- [SYNCOPE-500] - Wrong (unwanted) derived attribute insertion addition in membership modal page
- [SYNCOPE-501] - Virtual attribute propagation not working when updating only virtual attributes
- [SYNCOPE-504] - Sync/Push actions shouldn't be executed in dryrun
- [SYNCOPE-506] - Connector configuration tab in connector modal page does not accept new values
- [SYNCOPE-509] - In Task page after change of number of rows (to display) is erroneously added a column to tasks table
- [SYNCOPE-510] - Class cast exception in AbstractSearchPanel
- [SYNCOPE-512] - If there are no roles in edit user modal page is possible to create membership between root (fake) role and user
- [SYNCOPE-514] - Core doesn't deploy on Glassfish
- [SYNCOPE-515] - Bad integration test causes role ownership conflicts
- [SYNCOPE-518] - ApacheDS connector in test samples cannot be modified
- [SYNCOPE-527] - Stacktrace on BulkAction result
- [SYNCOPE-531] - Failed login counter not reset if log.lastlogindate==false
- [SYNCOPE-532] - Installer does not pick Syncope version from POM
- [SYNCOPE-539] - Edit user with resources causes Ajax failure
- [SYNCOPE-540] - Console build fails on Windows
- [SYNCOPE-543] - Role's "Inherit Attributes" does not inherit from parent role for check box attribute
- [SYNCOPE-545] - Date field without conversion pattern specified goes in NPE if deleting date

Improvement

- [SYNCOPE-15] - Manage creator, lastmodifier and approvers information about each SyncopeUser bean
- [SYNCOPE-131] - Assign membership and role schemas to either all memberships / roles or only some memberships / roles
- [SYNCOPE-132] - Don't expose some REST list methods for anonymous
- [SYNCOPE-133] - Add UserRequestController.execute() that will execute the provided UserRequest and remove it on success
- [SYNCOPE-145] - Configurable user request approval
- [SYNCOPE-149] - Easier and cleaner way to override REST methods
- [SYNCOPE-151] - Document RESTful services
- [SYNCOPE-153] - Use logback-audit

- [SYNCOPE-290] - Typed SyncopeConf
- [SYNCOPE-298] - Persistence beans: change AUTO Id generation strategy to TABLE
- [SYNCOPE-300] - Supporting Feed Item Query Language (FIQL)
- [SYNCOPE-303] - Mapping to SyncopeClientCompositeException on client side
- [SYNCOPE-304] - Mapping low level exceptions in core
- [SYNCOPE-313] - Support synchronizing non-clear text passwords from external resources
- [SYNCOPE-359] - Ignore propagation if no schema mapping is provided
- [SYNCOPE-362] - Disable mapping tab when the underlying connector does not support correspondent ObjectClass
- [SYNCOPE-374] - SyncopeUser tokens do not use secure random strings
- [SYNCOPE-390] - Default Reportlets improvements
- [SYNCOPE-391] - Make password management optional
- [SYNCOPE-392] - Full reconciliation from syncope to resource
- [SYNCOPE-393] - Resource unlink
- [SYNCOPE-395] - Role Reportlet
- [SYNCOPE-402] - Inconsistent status of user edit form after exception returned by bad propagation on primary resource
- [SYNCOPE-403] - Enrich PropagationStatusTO to report possible propagation exception message
- [SYNCOPE-405] - Replace logback with log4j 2
- [SYNCOPE-406] - Invoke bean validation via JPA entity listener
- [SYNCOPE-407] - Add claim for user requests and trace user request history into SyncopeUser bean
- [SYNCOPE-408] - Add index on task.executed
- [SYNCOPE-409] - Allow notifications with empty about field
- [SYNCOPE-410] - Make username pattern configurable via account policy
- [SYNCOPE-411] - Perform retries on failed notifications
- [SYNCOPE-413] - Clean activiti history for unused variables
- [SYNCOPE-415] - Reduce log level of bean validation errors
- [SYNCOPE-416] - AttributableSearchDAOImpl / Avoid query construction with string concatenation
- [SYNCOPE-420] - Provide user / role pre-processing mechanism
- [SYNCOPE-421] - Provide an attribute value pre-processing mechanism
- [SYNCOPE-422] - Improve audit info
- [SYNCOPE-424] - Resolve OpenJPA dependency overlap
- [SYNCOPE-425] - Further REST refactoring
- [SYNCOPE-427] - Add CSV report format
- [SYNCOPE-428] - Provide resource link, associate and provision independent features
- [SYNCOPE-429] - Support ETag-based conditional requests for users and roles
- [SYNCOPE-430] - Support returning no content after create / update
- [SYNCOPE-431] - Provide debug logging for controller methods' input and output
- [SYNCOPE-432] - Replace role action labels with icons
- [SYNCOPE-438] - Provide values for ConnId's APIConfiguration via ConnInstance entities
- [SYNCOPE-439] - Embed Activiti modeler for graphical workflow editing
- [SYNCOPE-441] - Index on Activiti table boosts overall performance
- [SYNCOPE-442] - Use cached virtual attribute values with offline resources
- [SYNCOPE-443] - Use WebJars to avoid including 3rd party JS and CSS files
- [SYNCOPE-444] - Notification: improve 'selfAsRecipient' management
- [SYNCOPE-445] - Provide a text field to specify whatever notification recipient
- [SYNCOPE-446] - Notification: let admins specify "About" for roles
- [SYNCOPE-447] - Provide the ability to have a single (cumulative) notification for task execution
- [SYNCOPE-450] - Support JAX-RS 2.0
- [SYNCOPE-460] - Default datasource uses BasicDataSource
- [SYNCOPE-461] - Use BeanValidation 1.1 with JAX-RS services
- [SYNCOPE-464] - Report error information in HTTP body
- [SYNCOPE-468] - Add information to what components refer to a certain policy
- [SYNCOPE-469] - Group policies and logs under configuration
- [SYNCOPE-479] - Use X-Application-Error-Code Response header instead of ExceptionType
- [SYNCOPE-480] - Change feedback panel into a smart animated notification panel
- [SYNCOPE-485] - Upgrade to Activiti 5.15.1
- [SYNCOPE-486] - Update Selenium test configuration
- [SYNCOPE-487] - make Velocity tools available in templates for notifications
- [SYNCOPE-488] - Use CXF Maven WADL plugin
- [SYNCOPE-491] - Use consistent icon set
- [SYNCOPE-492] - Provide possibility to activate/deactivate notifications
- [SYNCOPE-493] - Provide new user and role mapping purpose "NONE"
- [SYNCOPE-502] - Allow list of PropagationActions for Resource, SyncActions for SyncTask and PushActions for PushTask
- [SYNCOPE-505] - Support propagating non-clear text passwords to external resources
- [SYNCOPE-507] - User login date conditional logging
- [SYNCOPE-511] - Enhance synchronization report information
- [SYNCOPE-513] - Make value encryption parametric
- [SYNCOPE-516] - Binary Schema UI enhancements
- [SYNCOPE-517] - Empower ETag from console
- [SYNCOPE-519] - Report default values for connector properties
- [SYNCOPE-520] - Move reset sync token to resource actions
- [SYNCOPE-524] - Use JSON for serialized POJOs in the internal storage
- [SYNCOPE-536] - Upgrade to Activiti 5.16

- [\[SYNCOPE-538\]](#) - Externalize all WAR configuration

New Feature

- [\[SYNCOPE-123\]](#) - Binary schema
- [\[SYNCOPE-150\]](#) - Rich client library
- [\[SYNCOPE-164\]](#) - Passthrough authentication
- [\[SYNCOPE-270\]](#) - Encrypted schema

Task

- [\[SYNCOPE-448\]](#) - Provide build instructions
- [\[SYNCOPE-449\]](#) - Fix support for Eclipse IDE
- [\[SYNCOPE-451\]](#) - Upgrade to OpenJPA 2.3.0
- [\[SYNCOPE-463\]](#) - Update notification docs after SYNCOPE-423
- [\[SYNCOPE-467\]](#) - Update notification docs with latest improvements
- [\[SYNCOPE-478\]](#) - Upgrade to Wicket 6.14.0
- [\[SYNCOPE-496\]](#) - Upgrade jboss-it profile to Wildfly 8
- [\[SYNCOPE-537\]](#) - Upgrade to ConnId 1.4.0.0
- [\[SYNCOPE-544\]](#) - Review LICENSE & NOTICE for binary artifacts

Wish

- [\[SYNCOPE-340\]](#) - Translate items of Syncope UI and config files labels for Portuguese language
- [\[SYNCOPE-535\]](#) - Provide Debian packages for Apache Syncope