

iKnowBase Release Notes

Version 8.3-SNAPSHOT

Table of Contents

| | |
|--------------------------------|----|
| 1. Introduction | 1 |
| 2. New features | 2 |
| 2.1. Release 8.3 | 2 |
| 2.2. Release 8.2 | 2 |
| 2.3. Release 8.1 | 2 |
| 2.4. Release 8.0 | 2 |
| 2.5. Release 7.7 | 2 |
| 2.6. Release 7.6 | 2 |
| 2.7. Release 7.5 | 3 |
| 2.8. Release 7.4 | 4 |
| 2.9. Release 7.3 | 4 |
| 2.10. Release 7.2 | 4 |
| 2.11. Release 7.1 | 5 |
| 2.12. Release 7.0 | 5 |
| 2.13. Release 6.7 | 6 |
| 2.14. Release 6.6 | 7 |
| 2.15. Release 6.5 | 8 |
| 2.16. Release 6.4.1 | 8 |
| 2.17. Release 6.4 | 9 |
| 2.18. Release 6.3 | 9 |
| 2.19. Release 6.2 | 9 |
| 2.20. Release 6.1 | 9 |
| 2.21. Release 6.0 | 10 |
| 3. Changed functionality | 11 |
| 3.1. Release 8.3 | 11 |
| 3.2. Release 8.2 | 11 |
| 3.3. Release 8.1 | 12 |
| 3.4. Release 8.0 | 13 |
| 3.5. Release 7.7 | 13 |
| 3.6. Release 7.6 | 14 |
| 3.7. Release 7.5 | 14 |
| 3.8. Release 7.4 | 14 |
| 3.9. Release 7.3 | 15 |
| 3.10. Release 7.2 | 15 |
| 3.11. Release 7.1 | 15 |
| 3.12. Release 7.0 | 16 |
| 3.13. Release 6.7 | 17 |
| 3.14. Release 6.6 | 19 |

| | |
|---|----|
| 3.15. Release 6.5 | 21 |
| 3.16. Release 6.4.1 | 22 |
| 3.17. Release 6.4 | 22 |
| 3.18. Release 6.3 | 23 |
| 3.19. Release 6.2 | 23 |
| 3.20. Release 6.1 | 24 |
| 3.21. Release 6.0 | 24 |
| 4. Upgrading from earlier releases | 25 |
| 4.1. Upgrade from iKnowBase 8.2 | 25 |
| 4.2. Upgrade from iKnowBase 8.1 | 25 |
| 4.3. Upgrade from iKnowBase 8.0 | 26 |
| 4.4. Upgrade from iKnowBase 7.7.x | 29 |
| 4.5. Upgrade from iKnowBase 7.6.x | 32 |
| 4.6. Upgrade from iKnowBase 7.5.x | 33 |
| 4.7. Upgrade from iKnowBase 7.4.x | 34 |
| 4.8. Upgrade from iKnowBase 7.3.x | 35 |
| 4.9. Upgrade from iKnowBase 7.2.x | 36 |
| 4.10. Upgrade from iKnowBase 7.1.x | 38 |
| 4.11. Upgrade from iKnowBase 7.1.0 | 45 |
| 4.12. Upgrade from iKnowBase 6.7 | 45 |
| 4.13. Upgrade from iKnowBase 6.6 | 50 |
| 4.14. Upgrade from iKnowBase 6.5 | 50 |
| 4.15. Upgrade from iKnowBase 6.4 | 51 |
| 4.16. Upgrade from iKnowBase 6.3 | 53 |
| 4.17. Upgrade from iKnowBase 5.8 or lower | 54 |
| 5. Closed issues | 55 |
| 5.1. Release 8.3 | 55 |
| 5.2. Release 8.2 | 55 |
| 5.3. Release 8.1 | 57 |
| 5.4. Release 8.0 | 58 |
| 5.5. Release 7.7 | 59 |
| 5.6. Release 7.6 | 61 |
| 5.7. Release 7.5 | 65 |
| 5.8. Release 7.4 | 67 |
| 5.9. Release 7.3 | 70 |
| 5.10. Release 7.2 | 73 |
| 5.11. Release 7.1 | 77 |
| 5.12. Release 7.0.4 | 81 |
| 5.13. Release 7.0.3 | 81 |
| 5.14. Release 7.0.2 | 82 |
| 5.15. Release 7.0.1 | 82 |

| | |
|--|-----|
| 5.16. Release 7.0 | 82 |
| 5.17. Release 6.7 | 87 |
| 5.18. Release 6.6 | 91 |
| 5.19. Release 6.5 | 95 |
| 5.20. Release 6.4.1 | 100 |
| 5.21. Release 6.4 | 100 |
| 5.22. Release 6.3 | 104 |
| 5.23. Release 6.2 | 108 |
| 5.24. Release 6.1 | 112 |
| 5.25. Release 6.0 | 116 |
| 6. Supported platforms | 120 |
| 6.1. Supported web browsers | 120 |
| 6.2. WebDAV | 120 |
| 6.3. Supported application servers | 120 |
| 6.4. Supported Java versions | 121 |
| 6.5. Supported database servers | 121 |
| 6.6. iKnowBase Instant | 121 |
| 6.7. File Conversion Service | 121 |

Chapter 1. Introduction

This document contains release notes for iKnowBase software releases 8.3 and back to release 6.0. For older versions, refer to earlier release notes.

Two important issues before you continue:

- The installation guide is upgraded for every version. Please read the installation guide before starting your upgrade process.
- Always upgrade a test environment before upgrading the production environment, and make sure that the new version works well with your existing applications and solutions.

Chapter 2. New features

This chapter lists major new features for each release. Note that there might be many smaller enhancements not shown in this chapter, listed in detail in the "closed issues" chapter.

2.1. Release 8.3

2.2. Release 8.2

- Image editor API.

2.3. Release 8.1

- Support for JDK 11.
- Support for Oracle Database 19c.
- Support for Oracle Cloud Autonomous Database.

2.4. Release 8.0

- Generic support for OpenID Connect identity federation enables sign in support for a wide range of external identity providers.
 - Includes auto-connecting accounts on sign in when the user has a preexisting local account.
 - Includes support for sign up if the user does not have a preexisting user account.

2.5. Release 7.7

- The ContentQuery Java API is now capable of using an annotated java bean and additional object injection and/or post processing arguments to further and more elegantly enhance the resulting bean. This is also now supported per ContentQueryRow, and not only for the whole result row set.
- The Solr configuration allows for specifying whether to use XML or BINARY for the network communication; the XML protocol is slower, but has better compatibility with different Solr server versions. BINARY is still the default.
- iKnowBase user repository now supports bcrypt password algorithm.
- iKnowBase Page Engine now supports Java Form portlets to ease migration from iKnowBase Classic to the new Java-based development model. You may convert an existing Classic Form definition to a Java Form definition.

2.6. Release 7.6

- "iKnowBase Functions" is a new service that enables managed execution of Java functions. Executions can be initiated using either a Java or a PL/SQL API, and can be either synchronous

or asynchronous. Executions are scheduled using an Oracle AQ-queue, and served by a service inside the iKnowBase application server. Each execution is logged, with input and output values. "Functions" provide excellent performance, scalability, and manageability. It may replace custom queue based solutions and ease migration from iKnowBase Classic to the new Java-based development model.

- The ContentQuery Java API is now capable of using an annotated java bean for both configuration and mapping. A simple java class with properties annotated with `@AttributeMapping` can be used in the method `select(class)`, in order to specify which attributes to retrieve, and in the method `getRows(class)`, to retrieve an already-mapped java object.
- A new Java API allows for easy and stepwise migration from Classic Pages. It is now possible to configure a Classic Page with a reference to a Java method, which will then be responsible for rendering the page. The method will have access to all data from the Page, but can also use pure Java mechanisms to optimize performance and improve the development experience.
- A new feature in the Classic PageEngine allows a Classic Page to use a pure Java Servlet or `@Controller` as a Layout Page, with no configuration in the Classic repository. This mechanism, too, enables gradual migration from iKnowBase Classic to the new Java-based development model.
- A new authentication module uses HTTP-headers to manage the responses given for authentication failures. This gives clients such as single page javascript applications or mobile apps complete control of the login flow, and enables a more seamless application experience.
- WebDAV now supports editing non-active versions of versioned documents if enabled on the document type definition.

2.7. Release 7.5

- Static resources are now supported as root resources enabling any non-reserved paths to be used for these resources. This enhances support for deployment of modern front end applications and they may now freely choose deployment path.
- A new method on `SolrSearchClient` enables streaming of the Solr search result directly to a web client, in the format returned from the Solr server.
- The service API now support the operations save, copy, delete and get for subsystems.
- Support recovery of deleted documents. Activate the trash bin functionality per document type by setting a number of days to keep the documents. Deleted documents will automatically be stored in the trash bin and can be restored from a new pane in the Content Studio (`/cs/tools/trashbin`). Expired 'trash' will automatically be removed after the number of days set on the information type.
- Support audit trail for document changes. Audit trail is activated by a document event. The event function 'Audit trail for documents' is installed during upgrade. The event function will track all changes to a document, including timestamp, username, original and new values. Note: Values for large object (clob/blob) are not stored in the audit log. The audit trail for a document is available in Content Studio.

2.8. Release 7.4

- The ContentQuery Java API now supports the use of database functions implemented in PL/SQL. These functions can return varchar, clob, number or date values, and can be used in both select() and order() clauses.
- The ContentQuery Java API now supports the use of client-side functions implemented in Java. These functions can return String, Number, Date or Object values, and can be used only in select() clauses. They function as "virtual columns", are only evaluated on demand, and only once per row.
- The PageService Java API now supports rendering Java portlets on demand, by name. This enables the creation of dynamic pages, where the choice of portlets is made at run time rather than at design time.
- The Java API for implementing portlets now resolves method arguments of SolrSearchClientProvider, enabling the use of Solr from inside portlets.
- A new FreeMarker function `encodeURL` provides easier access to the static resources cache features first introduced in iKnowBase 7.2.
- The ContentServer now supports conditional caching. For objects that do not have specific cache rules, it will produce "Last-Modified" and "Cache-control" headers, and it will honor "If-Modified-Since" in requests.
- REST API for provisioning user accounts, groups and access control lists is now included.
- REST infrastructure for building services based on Spring Data REST and Spring HATEOAS is now included.
- A new prometheus-exporter makes it easy to monitor the iKnowBase installation using tools such as [Prometheus](#) and [Grafana](#).

2.9. Release 7.3

- Simplified continuous deployment of plugins. Plugin developers may now assemble and deploy their plugin to centralized development server(s) directly from command line, IDE or administration console.
- Plugin support for custom WebDAV file structure. Information stored in iKnowBase can now be represented as files and folders accessible using a WebDAV client (Microsoft Windows Explorer, GoodReader, ++). All regular file and folder operations are supported (list, read, create, rename, update, copy, move, delete). The directory structure is fully customizable.
- Plugin support for Java SDK Portlet enables seamless integration of plugin content in iKnowBase Page.
- Content Transformation support in Content Query API enables both Content Transformation links and actual transformation of binary content.

2.10. Release 7.2

- iKnowBase application has been migrated to the Spring Boot platform and is now deployed as a single application.

- New Content Transformation Service for transformation of binary content.
 - Cacheable on demand transformation replaces generation of image variants during save. This results in faster response times during save. It also significantly consumes less storage since only actually used variants are stored in cache. The service is also more flexible since the transformations are not required to be defined in database before use.
 - Leverages preexisting support from existing Image Editor, File Converter, Oracle Multimedia and Oracle Text.
 - New transformation support via CloudConvert (www.cloudconvert.com).
- Major enhancements to Java plugin development.
 - Simplified build setup through use of iKnowBase Gradle script plugins.
 - Simplified development through use of `@ComponentScan`.
 - Greatly enhanced testing support from Spring Boot.
- Improved caching options for static resources. Supports cache headers, versioned resource resolution and in-memory caching of static resources.
- iKnowBase Web Server now handles on-the-fly compression of all text content (html, text, css, js, ...)
- Database persisted sessions are now activated by default and offers session availability, which means that
 - Users will not be logged out nor loose any session data if the server is restarted.
 - You may load balance multiple nodes without using session persistence / sticky sessions, which makes it easier to distribute load evenly.

2.11. Release 7.1

iKnowBase 7.1 is a maintenance release focusing on bug fixes and minor improvements. There are no major new features in this release.

2.12. Release 7.0

- Java development enhancements
 - Additional java APIs available for interacting with content
 - `ContentQuery` for querying for documents and other content
 - `DimensionQuery` for querying for dimensions
 - Additional Java APIs provides access to Content and Presentation Services for applications that live outside the iKnowBase web application (standalone applications, external web application, integration engines, etc.)
 - `ContentServicesEngine` for accessing the iKnowBase Content Services
 - `PresentationServicesEngine` for using the iKnowBase Presentation Services
 - Source code generator for creating java objects and constants matching the iKnowBase metadata, for typesafe java code

- Simplified development of plugin forms using Spring MVC, bean validation, file based FreeMarker and iKnowBase services.
- Template enhancements
 - The template engine now support JavaScript templates on the server, through the nashorn JavaScript engine available in java 8.
 - The template engine now supports "chained templates", making it possible to combine two templates in the same request. This enables using for example groovy or javascript for logic, leaving formatting to a more traditional FreeMarker template.
- WebDAV enhancements
 - The WebDAV browser integration does not longer require the SharePoint plugin. Chrome has recently deactivated plugins based on NPAPI and iKnowBase will now by default use Microsoft Office URI scheme protocol extensions instead.
 - The WebDAV server no longer requires a dedicated hostname for itself. While dedicated hostnames are still supported, the new WebDAV module will automatically detect and serve WebDAV traffic for Microsoft Office clients, on the same host and port as the main iKnowBase application.
 - Support for form based authentication has been added, which extends the existing authentication support with both social (e.g. Google) and SAML2 options (e.g. Microsoft ADFS). See WebDAV compatibility section for more information.
- Solr integration enhancements
 - It is now possible to configure the SolrServer-connection using the Java SDK. This gives full control of the SolrServer configuration, including configuration parameters or even the use of custom SolrServer classes.
- Oracle Text
 - Now possible to disable indexing of file (binary) content in Oracle Text, which results in reduced index size, reduced growth and better performance. This is particularly useful if you've started using SOLR search and no longer require this information in the regular iKnowBase Search Sources. See Installation Guide > Database repository.
- iKnowBase LDAP Synchronization enhancements
 - Support for synchronizing users and groups from OpenDJ.
- iKnowBase web server enhancements
 - Support for HTTPS Server Name Indication (SNI) makes it possible to use more than one SSL certificate on iKnowBase web server. This is a typical requirement when hosting multiple sites on the same server and it is now also possible without SSL termination in front of iKnowBase web server.

2.13. Release 6.7

- The various iKnowBase web applications have been merged to a single application, with configuration options to enable and disable features as required. This eases both development and deployment, and it reduces the memory requirements for a typical installation.

- Third-party authentication support has been extended with:
 - Microsoft Live / Microsoft account.
 - SAML2, which enables authentication with SAML2 compatible Identity Providers, such as Microsoft ADFS, Feide and Salesforce.
- Plugin development has gone through a major reconstruction with:
 - New build setup for root project and plugin projects.
 - Significant simplification to build logic, project structure, run, debug, and assemble plugin. No additional generated build projects just a root project and your plugins.
 - Support in iKnowBase Quickstart utility for assembling the iKnowBase .war deployment with all plugins.
 - Major improvements in the Export utility, it now if possible to run precheck against the target destination without file download/upload. This eases the job of creating valid transport sets importable on the destination.

2.14. Release 6.6

- iKnowBase now ships with a security framework based on Spring Security, which provides a number of interesting features:
 - The framework has a large number of supported authentication modules, including BASIC, form, Windows spnego, etc. Multiple modules may be active at the same time.
 - Form-based login is supported for all environments, and is the default for the embedded QuickStart application server.
 - Third-party login is supported through extension to the spring security framework. iKnowBase ships with support for google, facebook, twitter and linkedin-basert authentication.
 - Java-based controllers may now verify ACL-membership as part of their authorization checks.
- The ServiceAPI has been significantly enhanced, both in syntax and functionality, across both the PL/SQL and Java layers. Custom application development using the API is much simpler, and the resulting code is much simpler, than before.
 - Many references to metadata (document types, attributes, etc) can be done using a String value for externalKey, instead of a full ObjectReference object.
 - The most important object types now have a number of easy-to-use constructors that simplify code.
 - Document attribute values are automatically converted during save, according to the attribute type.
 - The SaveDocumentAttributes API allows saving of attributes without having to construct a full Document object. External keys for standard document properties (such as **IKB\$TITLE**) lets you update the title of a document without the document object.
- A new command in ikbStudio lets you convert FreeForm and tabular presentation styles to template presentation styles with a single click, with reliable "revert" functionality if the output

is not as expected.

2.15. Release 6.5

- Support for arbitrary text editors in Forms, so that you may choose for example TinyMCE 4, CKEditor or others. The mechanisms used for this support make it easy to upgrade the editor in a customer installation, without requiring an iKnowBase-upgrade, for example when an editor vendor releases a patch to support a new browser.
- An iKnowBase-plugin for TinyMCE 4, so that you can add "link archive" and "image archive" buttons to a TinyMCE 4 editor.
- The ContentServer now supports the Http **Range** header, which is a requirement for various media players to work. Playing video from iKnowBase just got easier!
- Development toolkit has been enhanced with features around front end controller mechanisms, to develop web pages endpoints using java technologies. The toolkit also supports using the iKnowBase template technology from your java applications, and to execute iKnowBase Pages from within java code.
- A new EmailSender service uses java-based email technology as part of the Batch server. This enables access to more functionality such as SSL-based connections, mail server authentication and setting arbitrary SMTP-headers. It also enables email sending from environments where the database itself does not have access to an email server, such as certain secure network or the Amazon RDS for Oracle cloud database platform.
- A new ImagedEditor service uses java-based image editing technology as part of the Batch server. This enables access to image editing in environments where the database does not support Oracle Multimedia extensions, such as the Amazon RDS for Oracle cloud database platform.
- With the two extensions above, iKnowBase can run using an Amazon RDS for Oracle cloud database platform. Note that support for Amazon RDS should be considered experimental in this release.
- The iKnowBase instant request-response interface has been extended, and now supports a uniform mechanism for sending messages and querying for state information across protocols. The interface is available using the all the Instant APIs: JavaScript, HTTP and PL/SQL.
- The iKnowBase Quickstart embedded web server supports HTTPS natively. While we generally recommend terminating HTTPS in a front end appliance or service (such as Apache httpd or similar), there are scenarios where you want or need to serve connections directly from Quickstart. These scenarios can now run HTTPS, too.

2.16. Release 6.4.1

This is a critical maintenance release addressing database connection leak issues and contains no new features.

2.17. Release 6.4

- Enhanced WebDAV server support based on the Milton IO framework. You can now create a link directly from any iKnowBase Content Viewer to the proper Microsoft Office application, in order to edit the document directly.

NOTE | Requires WebDAV enterprise edition license from Milton IO

- Enhanced Solr search engine support, allow you to use multiple Solr installations (or Solr "cores") independently. This can be useful as an additional security layer for search setup, where you can build entirely independent indexes for intranet and internet users, with different information available.
- Development Toolkit for building java components and assembling these as part of the iKnowBase applications. While the toolkit is fully supported, it is not finalized and the underlying APIs may change in the next versions. To start using this toolkit, contact the iKnowBase product development team for more information.

2.18. Release 6.3

- Integrated framework for publishing realtime messages (push messages).
- Links to HTML, PDF and Plain text versions of a document can easily be added to a page. PDF-versions require a separate license namely "iKnowBase Document Conversion Service".
- Includes Activiti BPMN process engine version 5.13.
- Includes Solr search engine version 4.2.

2.19. Release 6.2

A new search engine based on Apache Solr is included.

- Uses the Lucene library for full-text search
- Faceted navigation
- Hit highlighting
- Replication to other Solr servers
- Extensible through plugins
- Pluggable relevance - boost through formula
- Stemming, synonyms, spelling
- Autocomplete functionality

2.20. Release 6.1

- A BPMN process engine based on Activiti.org is included. Activiti is a light-weight workflow and Business Process Management (BPM) Platform targeted at business people, developers and

system admins. Its core is a super-fast and rock-solid BPMN 2 process engine for Java.

- The new *iKnowBase Process Studio* with an overview of process definitions and process instances.
- The security model now includes personal access control lists (ACL).
- FTP-server support against the WebDAV file system. Use a standard FTP-client to gain access to files stored in the iKnowBase CMS.
- Added support for Groovy scripts as an alternative to FreeMarker. Groovy uses a Java-like syntax, allowing for the reuse of existing Java-code and competence.
- The new component *Script Target* is an endpoint (url) where the output is rendered as a complete web page.
- The new component *Script Viewer* presents a template on a page. Output is rendered in-line as for any other portlet.
- Some standard iKnowBase components, ie popups, selectors, calendars, and messages boxes, are re-implemented in Ext JS 4, with some improvements. iKnowBase 6.1 has no longer a dependency to Ext JS 3.
- The TinyMCE editor is upgraded to version 3.5.2.
- New attribute types; user, acl and documenttype.

2.21. Release 6.0

- The Document Archive, delivered as part of the iKnowBase Content Studio, has been rewritten as a rich internet application. The Image Archive component, new in version 5.9, has also been further improved.
- A new web application "ikbWebdav" enables WebDAV-based access to documents inside iKnowBase. This allows direct file access from operating systems (such as Microsoft Windows), or Office Suites (such as Microsoft Office). Further information can be found in the Development Guide.
- A new newsletter-component based on the iKnowBase Page Engine has been included. This provides superior formatting over the old component, with all capabilities from the page engine available for use. Please note that this component is not available on the Oracle OC4J application server technology.
- The embedded web server (part of the Quickstart program) is now supported for production use, with either Microsoft Active Directory or the iKnowBase repository for authentication. When using Microsoft AD, automatic login using Kerberos (SPNEGO, WNA) can be used.
- Tooltip functions have been converted to use the cluetip library. Cluetip supports in addition to title/description tooltips the use of page content rendered in mouseover functions. Further information can be found in the Development Guide.
- A document can be referred in HTML as an image or a file link. This is often done when you use a TinyMCE editor to add text to a document. A new database table will now automatic be updated with these references and can easily be extracted in viewers to display relations between documents. The new table is called document_usage and will be populated every time you save a document.

Chapter 3. Changed functionality

This chapter lists functionality that has changed behavior or has been removed in the specified release, or that will be removed in the future. Read this chapter to see if this version contains changes that influence the functionality provided for and by your solutions.

This chapter does not describe any changes required to your infrastructure or application, in order to maintain current functionality. Such information is described in the next chapter.

3.1. Release 8.3

3.1.1. End of support for

- Internet Explorer and legacy versions of Microsoft Edge
- Oracle WebLogic application server
- Oracle databases older than 19c

3.1.2. Removed iKnowBase functionality

3.1.3. EmailReader functionality is removed

The following config params are now obsolete and should be removed:

- `com.iknowbase.batch.emailReader.*`

3.1.4. WebDAV functionality is removed

The following config params are now obsolete and should be removed:

- `com.iknowbase.webdav.*`
- `com.iknowbase.spring.security.form.webdavForm*`
- `milton.*`
- `com.iknowbase.plugin.ikbcontentstudio.enableWebDavEditActions`

Any WebDAV related calls in templates may cause errors and should be removed. They should be found by searching for "webdav".

3.2. Release 8.2

3.2.1. End of support for Internet Explorer 10 and older

Support for Internet Explorer earlier than version 11 is now ended, after it was deprecated in iKnowBase 8.0.

3.2.2. Deprecation of support for Internet Explorer and legacy Edge

Support for Internet Explorer and legacy versions of Microsoft Edge is now deprecated and will be ended in the next version.

3.2.3. Deprecation of support for the process engine

Support for the Activiti BPM process engine is now deprecated. This also includes iKnowBase Process Studio.

3.2.4. Deprecation of support for WebLogic

Support for Oracle WebLogic is now deprecated and will be ended in the next version.

3.2.5. Deprecation of support for EmailReader component

Support for the EmailReader component is now deprecated and will be ended in the next version.

3.2.6. Deprecation of support for Oracle DB older than 19c

Older Oracle DB versions than 19c will not be supported in the next release.

3.2.7. Removed references to Oracle Workflow

The package IKB_API contained some procedures with "WF" in the name. These have been unused for a long time, and has been removed. Old customer projects may have project-specific references to these procedures that most likely is never called, but may now fail compilation. Search through custom PLSQL and iKnowBase objects for "WF" and "workflow" and do a cleanup if needed, e.g. the package alias previously included at /ikb\$console/development/advanced/packages/95955/. Also note that the `ikb_global_prefs` constant `has_oracle_workflow` is discarded, and can be removed from `ikb_installation_properties` if present.

3.3. Release 8.1

3.3.1. JDK 11

JDK 11 is now the minimum required JDK version and introduces some changes to deployment and functionality. See upgrade section for required changes and required actions if you want to keep the old behaviour (where available).

3.3.2. Classic template support for JavaScript has been removed

Nashorn support is scheduled to be removed from the JDK. Support for JavaScript as classic template implementation type has therefore been removed from iKnowBase. See upgrade issues report in administration console for affected templates.

3.4. Release 8.0

3.4.1. Spring Social

- Replaced support for Spring Social (end of life) with Spring Security OAuth2. Reconfiguration is required.
 - As part of that change, we've removed support for authorized client connection for the external provider. This feature was never used.

3.4.2. Deprecate support for Internet Explorer older than version 11

Microsoft has ended support for Internet Explorer older than version 11. iKnowBase 8.0 will be the last version that supports Internet Explorer versions older than 11.

Beginning January 12, 2016, only the most current version of Internet Explorer available for a supported operating system will receive technical supports and security updates. Internet Explorer 11 is the last version of Internet Explorer, and will continue to receive security updates, compatibility fixes, and technical support on Windows 7, Windows 8.1, and Windows 10.

— <https://www.microsoft.com/en-us/WindowsForBusiness/End-of-IE-support>

3.4.3. Deprecate support for Java 8

iKnowBase 8.0 will be the last version with support for Java 8.

3.5. Release 7.7

3.5.1. WebLogic provider authentication against iKnowBase user repository no longer supported

Using WebLogic container mode to authenticate against iKnowBase user repository is not supported from iKnowBase 7.7+. iKnowBase 7.7+ will by default use bcrypt for password storage, which is not supported by WebLogic's standard authentication provider adapters.

See Web Application Security section for configuring iKnowBase's own authentication modules.

3.5.2. Deprecate support for Nashorn JavaScript Engine

Java has deprecated its support for the Nashorn JavaScript Engine (<http://openjdk.java.net/jeps/335>) in JDK 11. This leads to deprecation of support for the Nashorn JavaScript Engine in iKnowBase as well.

3.6. Release 7.6

- Going forward, documentation will only be delivered in HTML format.

3.7. Release 7.5

3.8. Release 7.4

3.8.1. Fix inconsistency in Java API

NOTE

The changes here apply only to the Java API. ContentViews and Templates in iKnowBase Classis are not affected.

The method `ContentQueryRow.getValue()` is available in two forms, one that takes an `Expression` argument, and one that takes a `String`. In previous releases, these two returned inconsistent results for items returning either an `ObjectReference`, `DocumentReference` or `UserReference`. For example, these two fragments returned different results:

```
// Assuming "ContentQueryRow row"
ObjectReference a = row.getValue(MasterMetadata.Expressions.IKB$ACL); ①
ContentQueryItemObjectReference b =
(ContentQueryItemObjectReference)row.getValue("IKB$ACL"); ②
ObjectReference b2 = b.getObjectReference(); ③
```

- ① Used with an `Expression`, it returned the `ObjectReference` directly
- ② Used with a `String`, it returned a `ContentQueryItem`
- ③ To get to the actual `objectReference`, you have to inspect the item

When called from Java code, the above change will be detected by the compiler. However, the same problem is more probable and less visible from inside `FreeMarker`-templates:

```
ACL: ${row.getValue("IKB$ACL").objectReference.label} ①
ACL: ${row.getValue("IKB$ACL").label} ②
```

- ① This assumes the intermediate `ContentQueryItem`, and will no longer work
- ② This is the proper mechanism

To find such problems, search for lines containing `".objectReference"`, `".documentReference"` and `".userReference"` in the `FreeMarker` templates using `ContentQueryRow`.

3.8.2. Fix inconsistency with missing references

In earlier releases, the `iKnowBase` API would return inconsistent data for missing references. For example, an `ACL`-reference field which was empty (no `ACL` given) would sometimes return the `NULL` value, and sometimes an `ObjectReference` where all elements (`id`, `guid`, `externalKey`, `label`)

were NULL.

3.8.3. Rename ContentServer configuration property

The configuration property `com.iknowbase.ContentServer.createResponseHeaders` has changed name to `com.iknowbase.ContentServer.createDocumentReferenceHeader`. This property is rarely used.

3.8.4. Remove default cluetip support

The ContentViewer is capable of rendering tooltip information on links it creates, by creating attributes for use with the cluetip library. This library is old, and does not represent current state-of-the-art for web solutions. The ContentViewer Portlet will no longer generate the required scripts to use cluetip. The old behavior can be restored by setting the configuration variable `com.iknowbase.contentViewer.clueTip` to one of the values `delayed` (recommended) or `traditional`.

3.9. Release 7.3

3.9.1. Desupport of iKnowBase Authentication Plugin for Oracle WebLogic

iKnowBase Authentication Plugin for Oracle WebLogic is no longer supported. Use WebLogic's own `ReadOnlySQLAuthenticator Authentication Provider` if you require "container" authentication.

3.9.2. iKnowBase Content Studio not deployed by default

The iKnowBase Content Studio now ships as an external plugin and is no longer deployed by default. This enables the projects to implement custom Content Studio versions.

NOTE

The document- and image picklists are part of the iKnowBase Content Studio plugin and will no be available unless the plugin is installed.

3.10. Release 7.2

3.10.1. Desupport of Oracle Database 10g

Oracle Database 10g is no longer supported for iKnowBase deployments. Oracle Database 11g is now minimum version.

3.10.2. Desupport of Oracle Secure Enterprise Search

Oracle Secure Enterprise Search is no longer supported for iKnowBase deployments.

3.11. Release 7.1

iKnowBase 7.1 is a maintenance release focusing on bug fixes and minor improvements. This release does not introduce any major changes in functionality.

3.12. Release 7.0

3.12.1. Desupport of Oracle Portal

iKnowBase no longer ships with portlets for Oracle Portal. The functionality supported by Oracle Portal can generally be implemented better and faster using the iKnowBase Page Engine.

3.12.2. Desupport of iKnowBase Add-in for Microsoft Office

From this release, the iKnowBase Add-in for Microsoft Office is no longer available. Existing customers should migrate to the WebDAV functionality which requires less setup and coding, and provides a better user experience.

Components (ContentViewers and SearchViewers) that use the "edit document" function to generate icons or links that use the add-in are automatically changed to the "edit using webdav" function instead.

3.12.3. Desupport of Fatax Editor

The Fatax Editor is not available from this release onwards. The Fatax- integration was considered experimental, and no production installations will be affected by this.

3.12.4. Desupport of FTP-based access to documents

The WebDAV-server no longer supports FTP-based access to documents. No production installations will be affected by this.

3.12.5. Desupport of iKnowBase Process Services for Oracle BPEL PM

As all customers using Oracle BPEL have now upgraded to the newer Activiti-based business process management, the BPEL-specific components have been removed from the product.

3.12.6. Desupport of GlassFish application server

Deployment on GlassFish application server is no longer supported. GlassFish v3 has been deprecated and is excluded due to new infrastructure requirements for iKnowBase 7.0. Deployment on GlassFish v4 was previously supported, but not recommended due to various issues and support was eventually dropped in iKnowBase 6.6. We currently have no customers using GlassFish 4 for iKnowBase in production.

Customers on GlassFish v3 must migrate to either iKnowBase Web Server or Oracle WebLogic.

3.12.7. WebDAV browser integration

The WebDAV browser integration has changed from using the SharePoint NPAPI plugin to Microsoft Office URI scheme protocol extensions. The user will no longer need to approve use of a browser plugin. The user is instead prompted for a new application launch approval, which may be remembered, when clicking on WebDAV links.

3.12.8. Uploading HTML-files

Previous versions had a hard time to differ between content written in such editors as TinyMce and HTML-files upload as files. After an upload, the file content was available in editors and not as a file link as expected. HTML-files uploaded from Forms will now be stored as files instead of being converted to html-content. To upload the content from a file to be used from a editor later, either use the service-api to store the file content with the attribute IKB\$TEXT or cut and paste the html-file directly into an editor.

All other text files have been converted from CLOB to BLOB and are now stored in document.binary_indexed.

3.12.9. Content Studio now ships as a Java plugin

From iKnowBase 7.0 iKnowBase Content Studio ships as a Java plugin. During upgrade of an existing installation, iKnowBase Content Studio classic pages and targets replaced by new Java-based components will be renamed to `/cs/deprecated/` and `/ext/cs/deprecated/`. A new transport set, which includes the image form and iKnowBase classic components necessary to run forms and statistics, is included in the distribution. When importing this transport set, the image form will be converted to a Java-based form. It can easily be toggled back to iKnowBase classic form for customers who require special configuration.

3.12.10. iKnowBase Process Studio no longer installed by default

iKnowBase Process Studio has been converted to an iKnowBase plugin and is no longer installed by default. See installation documentation.

3.13. Release 6.7

3.13.1. One java web application

iKnowBase ships only two applications:

- `iknowbase-resources`, which contains only static resources and may be served by a web server in front of the java application server.
- `iknowbase-webapp`, which contains all other modules:
 - Batch (default enabled)
 - Instant
 - Fatax
 - Studio (default enabled)
 - Viewer (default enabled)
 - WebDAV
 - WebServices

The modules can be enabled/disabled, see Installation Guide.

All administration areas (/ikbStudio, /ikbBatch, <each application>/ikb\$console) have now been merged to /ikb\$console.

3.13.2. RequestModel.getFile() and .getFileMap()

The java-api, also used in groovy-scripts, provides access to uploaded files (technically parts of type "multipart/form-data") through the methods getFile() and getFileMap(). The return value from these methods used to expose certain spring-internals, namely the classes MultiValueMap and MultipartFile. These two methods have been rewritten, and they now use a standard java.util.Map and javax.servlet.http.Part instead.

We are not aware of any external uses of these methods, but if you do use them, a (trivial) rewrite is required.

3.13.3. ProcessServicesWS has been removed

The application ProcessServicesWS has been removed from the distribution. You may use previous versions of this web application if you require this functionality.

3.13.4. Default protection of /ikbStudio and /ikbBatch

With the new single-application deployment model, it is no longer possible to create iKnowBase pages matching /ikbStudio and /ikbBatch. Doing so was never a good form anyway, but is now forbidden.

3.13.5. Security

One application

As all modules are now available in one application, authentication between former applications like ikbStudio and ikbViewer are now one authentication. Of course, if you deploy several versions of the iknowbase-webapp application this means separate authentications.

"Simple authentication" for WebDAV and Instant

WebDAV and Instant is now part of the iknowbase-webapp and will use the following ordered approach for presenting the authentication challenge:

1. Header (default disabled)
2. Spnego (default disabled)
3. Basic (default enabled if non container mode)
4. Default

The first enabled module wins.

This means that you can have Form based login on all other areas without affecting WebDAV and Instant.

Login form changes

The included login form has been changed. If you have applied custom styling for the included iKnowBase 6.6 login form, you must update the custom styling settings.

Configuration

Form, Spnego and Header login option "realmName" used by XMLHttpRequest and WebDAV has been replaced by "realmName" in Basic configuration.

3.13.6. Plugin development

With the move to a single application for iKnowBase, we have done significant improvements as well as some breaking changes to the iKnowBase Development Toolkit.

You need to create a new plugin development workspace and manually migrate your plugins to the new build structure. See updated plugin development documentation.

Additional access requirements for plugin development:

- Access to the iKnowBase Artifactory repository

Spring Controller plugins support:

- Spring component scan on com.iknowbase.plugin removed.
- Bootstrapping your plugin using spring.factories and @Configuration is required.
- @Controller annotation should no longer be used. Use @RequestMapping annotation instead to signal that the Spring bean has @RequestMapping methods.

3.13.7. Instant

Javascript onError callback will now be called for all server errors. Previously this required custom error detection as not all server errors would result in onError callback.

3.14. Release 6.6

3.14.1. Require Java 7

iKnowBase now requires Java 7.0 or newer.

Java 7 has been shipping since July 2011, and Java 8 has been shipping since March 2014. Java 6 reached end-of-life in 2013, with the final public update in March that year.

All application servers currently supported by iKnowBase also support running under Java 7. However, Java 7 may require a newer operating system version than Java 6 does; check <https://www.java.com/en/download/help/sysreq.xml> for details.

3.14.2. GlassFish

Support for GlassFish 3 is now deprecated. From one of the next few releases, iKnowBase will require Oracle WebLogic or iKnowBase Quickstart.

Support for GlassFish 4 has been removed.

GlassFish authentication is no longer supported. Use iKnowBase supplied authentication modules.

3.14.3. Deprecate non-template presentation styles

FreeForm and tabular presentation styles has been around since the beginning of iKnowBase. These style types are a 100% data driven method where you define the layout by defining metadata from where the layout is generated. Later versions introduced FreeMarker as the preferred method.

FreeForm and Tabular will in future releases no longer be supported.

3.14.4. Authentication and authorization

Except for Oracle WebLogic server, the authentication setup has changed, with new default authentication methods and user repositories:

| Server | Authentication method | User repository |
|----------------------|-----------------------|--------------------|
| iKnowBase Quickstart | Form | iKnowBase |
| Oracle GlassFish | Form | iKnowBase |
| Oracle WebLogic | Basic | WebLogic container |

Previously, users would not be allowed access to iKnowBase unless they were granted the role `IKB_USERS`. From this release onwards, this requirement has been removed, and authorization will only rely on ACLs as specified in the application.

3.14.5. Various database changes

The tables `LOG_SESSIONS`, `LOG_DIMENSIONS`, `MENU_DYN_PREFS` and `IMAGE_SIZES` are no longer in use, and have all been dropped.

The Object types `DIMROWS`, `GENCODEVALUES`, `DIMPROPS`, `ATTRIBUTE_TYPE`, `ATTRIBPROPS`, `IKACLTYPE` and `IKBGENCODES` are no longer in use, and have all been dropped.

The old support for NOARK is dropped from the components. No customers are using this functionality.

3.14.6. Removed portlets

The portlets "forgot password", "register user" and "Custom login" made for Oracle Portal long time ago have not been used by any customers, and have all been dropped.

3.14.7. Removed menu renderers

Four menu renderers not in use have been removed:

| | | |
|------|--------------|--------------------------|
| COL4 | menu_dynamic | Vertikal - fire kolonner |
| YAH2 | menu_dynamic | Yahoo - to kolonner |
| YAH3 | menu_dynamic | Yahoo - tre kolonner |
| YAH4 | menu_dynamic | Yahoo - fire kolonner |

3.14.8. Banner style set

Banner style set used in Oracle Portal Viewers has been removed

3.14.9. iKnowBase Instant UserList

The one second delay for the UserList message `IKB.USERLIST.USERS` has been removed and this message will now be delivered immediately after the connection has been established.

3.14.10. ServiceAPI XML-support

Certain test scenarios have uncovered an internal error in the Oracle JDBC-driver stack while operating on XML-data from java or WebServices. There is no fix available, so you will need to test your application for this kind of error.

3.14.11. Removed functions from ActionPortlet

The actions "edit", "delete", "copy to another parent", "move to another parent" and "copy this + subdocs to a new parent" have been removed from the ActionPortlet. They have not been functional for a few versions, but were still available in the user interface.

3.14.12. Process Studio now ships as a Java plugin

From iKnowBase 6.6 iKnowBase Process Studio ships as a Java plugin, rather than iKnowBase components included in a transport set. During upgrade of an existing installation, all pages and targets in the iKnowBase Process Studio subsystem will be renamed to `/ps/deprecated/`.

3.15. Release 6.5

3.15.1. Activiti Explorer

The Activiti Explorer web application is removed from the iKnowBase distribution. The Activiti Modeler (BPMN web modeler) is part of the Activiti Explorer and will no longer be available. Use the Activiti Eclipse BPMN 2.0 Designer for process modeling.

3.16. Release 6.4.1

This is a critical maintenance release addressing database connection leaks.

3.16.1. Database connection leak in iKnowBase Batch

The PageEngine component in iKnowBase Batch fails to release acquired database connections and will leak one connection per execution.

The issue has been resolved in this release.

3.16.2. Database connection leak in iKnowBase Viewer

iKnowBase Viewer will suffer database connection leaks if an error occurs during database connection initialization.

The issue has been resolved in this release.

3.16.3. Documentation updates

Some documentation errors have been corrected in README.txt and SAMPLE.properties.

3.17. Release 6.4

3.17.1. Solr Configuration

In Solr Configuration you could define if body and description should be stored or not in SOLR. This is removed as options; use instead the SOLR schema.xml to define it on the attribute `body` and `description`. It resulted in unnecessary warnings in Solr console.

Abstract is also removed after TIKA was introduced. We cannot apply values to the field if the content should be extracted from the body. In earlier releases it was all done on the database.

3.17.2. Solr attributes

iKnowBase binary file attributes combined with binary content is not supported when indexing. SOLR/Tika supports only one binary file per document object.

3.17.3. Solr access from groovy

The old syntax for referring to a Solr search engine from a groovy script has changed; see the chapter on migration and compatibility for more information.

3.17.4. Oracle WebLogic 11g no longer supported

Oracle WebLogic 11g is no longer supported for running iKnowBase applications due to requirements for servlet 3.0.

3.17.5. Oracle WebLogic 12c supported

iKnowBase is supported on WebLogic 12c 12.1.1-3 application servers.

3.17.6. GlassFish 4 supported

iKnowBase is supported on GlassFish 4 application servers, but not recommended.

GlassFish 4 (build 89) does not correctly operate behind an SSL terminating reverse proxy and iKnowBase will be unable to determine that the request was originally HTTPS. This issue is reported in <https://java.net/jira/browse/GLASSFISH-20842>.

GlassFish 4 (build 89) also has problems with session replication in a clustered environment and as a result session failover does not work.

As we strongly recommend all sites to use https for all communication, we do not recommend running a production site on GlassFish 4.

3.17.7. iKnowBase Viewer is deployed to / by default

The iKnowBase Viewer application has traditionally been deployed to /ikbViewer. The application has supported context root /, but this is now set as the default context root.

Customers can still choose to deploy the application as/ikbViewer.

3.17.8. iKnowBase Quickstart configuration

The iKnowBase Quickstart configuration options have been standardized and changed. All previous options are present, but may have a new configuration name. See the provided SAMPLE.properties file.

3.17.9. Only one method in Sendmail will be maintained

Sendmail is used to send emails and have two different methods to build and send the email. The old method combines different functions like `sendmail.begin_mail`, `sendmail.write_text` and `sendmail.end_mail`. These functions will not be maintained, but kept for backward compability. The preferred method is `sendmail.mail` (with different signatures) and it will be the method that will be maintained in the future. It already have improved functionality like logging and better support for different character sets.

3.18. Release 6.3

Oracle OC4J is no longer supported.

3.19. Release 6.2

There is no known changed and deprecated functionality for this release.

3.20. Release 6.1

Key items for this release

- The embedded TinyMCE editor has been upgraded to release 3.5.2. Certain layout default has changed in this release of the editor. If you use custom TinyMCE profiles, you may want to verify that these still behave as expected.
- Ext JS has been migrated from Ext3 to Ext4.

3.21. Release 6.0

These are the key items for this release:

- All tooltip functions have been converted to use the new tooltip library "ClueTip". We operated with three different tooltip functions in former versions. They will all be converted to display title and description with cluetip from iKnowBase 6.0. The new library is much more flexible and can also use the content of a page as tooltip.
- The old Document Archive, delivered as a part of the Content Studio application, has been replaced with a new, modern rich web application.
- The tinyMCE 2.x plug-ins for the iKnowBase image and link pick lists are deprecated. If access to the pick lists are needed, existing tinyMCE 2.x profiles must be upgraded to the latest tinyMCE version.
- New signature for tooltip functions.

The signature for tooltip functions has changed. In order to achieve maximum performance, the document title will be sent to the custom written function as a parameter. The new API signature is shown below.

```
FUNCTION <tooltip_function_name>
(
    p_document_id      IN NUMBER,
    p_page_url         IN VARCHAR2,
    p_back_url         IN VARCHAR2,
    p_reference_path   IN VARCHAR2,
    p_language_id      IN VARCHAR2,
    p_version_no       IN NUMBER,
    p_title            IN VARCHAR2
) RETURN VARCHAR2;
```

Chapter 4. Upgrading from earlier releases

This chapter lists areas where you will need to change your application or infrastructure to support the same functionality as before, or to start using new functionality.

Read this chapter to find out which areas of your solution that may need rework, or where rework will provide better solutions. Start with the chapter describing the iKnowBase release you are upgrading from, and work your way through all the chapters regarding newer releases.

Remember that the installation guide is upgraded for every version. Please read the installation guide before starting your upgrade process.

4.1. Upgrade from iKnowBase 8.2

4.1.1. Discontinued config properties

'has_oracle_ordsys' can be removed from IKB_INSTALLATION_PROPERTIES if present.

4.2. Upgrade from iKnowBase 8.1

4.2.1. New ACL on exports

Import the ACL from Masterdata or create one with external key `IKB_SYSADM_ACCESS`.

4.2.2. Configuration changes

Changes for Spring Boot 2.5 and 2.6 and all their dependencies applies, and are documented at <https://github.com/spring-projects/spring-boot/wiki/Spring-Boot-2.5.0-Configuration-Changelog> and <https://github.com/spring-projects/spring-boot/wiki/Spring-Boot-2.6.0-Configuration-Changelog>

4.2.3. iKnowBase Plugin Development changes

This release has major library and JDK upgrades that will require some adjustments in your iKnowBase plugins.

As always, merge the contents from the updated plugin starter project with your plugin project and recompile and redeploy all plugins.

Spring changes

Changes for Spring Boot 2.5 and 2.6 and all their dependencies applies, and are documented at <https://github.com/spring-projects/spring-boot/wiki/Spring-Boot-2.5-Release-Notes> and <https://github.com/spring-projects/spring-boot/wiki/Spring-Boot-2.6-Release-Notes> . Few of these apply to plugins, but you might have to consider these:

- [Circular bean references disallowed](#) - can be reverted with config `spring.main.allow-circular-references=true`
- [New path matchers](#) - can be reverted with config `spring.mvc.pathmatch.matching-strategy=ant-`

4.3. Upgrade from iKnowBase 8.0

4.3.1. JDK 11

JDK 11 is now the minimum required version to run iKnowBase. Update using any of the OpenJDK 11 distributions.

IMPORTANT

Oracle's JDK distribution is NOT free. Choose between the free OpenJDK 11 distributions or commercial supported JDK 11 (LTS) distributions.

Updated Locale Data to Unicode CLDR

With the JDK upgrade the locale data will now by default rely on [CLDR - Unicode Common Locale Data Repository](#). Depending on usage and configuration in the customer specific solution this may affect:

- **Locale-specific patterns for formatting and parsing:** dates, times, timezones, numbers and currency values, measurement units,...
- **Translations of names:** languages, scripts, countries and regions, currencies, eras, months, weekdays, day periods, time zones, cities, and time units, emoji characters and sequences (and search keywords),...
- **Language & script information:** characters used; plural cases; gender of lists; capitalization; rules for sorting & searching; writing direction; transliteration rules; rules for spelling out numbers; rules for segmenting text into graphemes, words, and sentences; keyboard layouts...
- **Country information:** language usage, currency information, calendar preference, week conventions,...
- **Validity:** Definitions, aliases, and validity information for Unicode locales, languages, scripts, regions, and extensions,...

The default setting for locale providers is `java.locale.providers=CLDR,COMPAT,SPI`. To rely on the previous default used in JDK8 and earlier, you may set the system property to `java.locale.providers=COMPAT,CLDR,SPI`.

UTF-8 Properties Files

With JDK 9+ the default encoding when loading property files have changed from ISO-8859-1 to UTF-8, see [UTF-8 Properties Files](#).

Most property files will not be affected, however if there is an issue, consider the following options:

- Convert the properties file into UTF-8 encoding. (Recommended)
- Specify the runtime system property for the properties file's encoding, as in this example:
`java.util.PropertyResourceBundle.encoding=ISO-8859-1`

Some plugins have used a specific UTF8Handler when loading resource bundles. This can now be

removed.

4.3.2. Configuration changes

Changes for Spring Boot 2.3 and 2.4 and all their dependencies applies, and are documented at <https://github.com/spring-projects/spring-boot/wiki/Spring-Boot-2.3.0-Configuration-Changelog> and <https://github.com/spring-projects/spring-boot/wiki/Spring-Boot-2.4.0-Configuration-Changelog>

NOTE | Especially note these common properties in `application.properties` for iKnowBase:

- `server.use-forward-headers=true` has changed to `server.forward-headers-strategy` and most often the value `native`.
- The property for setting log directory has changed from `logging.path` to `logging.file.path`.

4.3.3. Spring HATEOAS breaking changes

Run <https://github.com/spring-projects/spring-hateoas/blob/master/etc/migrate-to-1.0.sh>

4.3.4. Instant HTTP API moved

The Instant HTTP API (`/ikb$service`) has been moved.

| From | To |
|---|--|
| <code>/ikbInstant/ikb\$service</code> | <code>/ikb\$instant/service</code> |
| <code>/ikbInstant/private/ikb\$service</code> | <code>/ikb\$instant/private/service</code> |

NOTE | The main asynchronous endpoint is unchanged and present at `/ikbInstant`.

4.3.5. Default JDBC socket read timeout

The default JDBC socket read timeout has been changed from no value (never time out) to 10 minutes. If you have long running queries that exceeds this timeout, set `spring.datasource.hikari.dataSourceProperties.oracle.jdbc.ReadTimeout`.

4.3.6. iKnowBase Plugin Development changes

This release has major library and JDK upgrades that will require some adjustments in your iKnowBase plugins.

As always, merge the contents from the updated plugin starter project with your plugin project.

Dependencies

Review the project's explicit dependencies vs what's included with iKnowBase.

Selected modules previously included in the JDK has been removed from the JDK itself. iKnowBase provides dependencies for

- JavaBeans Activation Framework
- Java Transaction API
- JAXB
- Commons Annotation

iKnowBase does not provide dependency for:

- JAX-WS (SOAP XML Web Services)
- CORBA

If you rely on any of the removed dependencies in your plugins you'll need to add an explicit dependency.

Spring changes

Changes for Spring Boot 2.3 and 2.4 and all their dependencies applies, and are documented at <https://github.com/spring-projects/spring-boot/wiki/Spring-Boot-2.3-Release-Notes> and <https://github.com/spring-projects/spring-boot/wiki/Spring-Boot-2.4-Release-Notes> . Few of these apply to plugins, but note the change for `@ActiveProfiles` where you can no longer supply a comma-separated string of multiple profiles, they must be an array.

4.3.7. Datasource monitoring using Java Simon removed

Support for `com.iknowbase.datasource.simonWrapper=true` has been removed. Use normal metrics support for the datasource.

4.3.8. Oracle 19c: Oracle Multimedia is removed

iKnowBase 8.1 supports the Oracle 19c database, where Oracle Multimedia is no longer available. If the database is upgraded to 19c, any transformations using Oracle Multimedia will not work and must be replaced. The transformations are listed at [/ikb\\$console/development/advanced/transformation](/ikb$console/development/advanced/transformation). All transformations must be inspected, and any transformation instruction prefixed with `ordimg:` must be changed. See [Content Transformation Service](#) in the *Development Guide* for alternatives.

4.3.9. Java plugins: JDBC from ContentServicesClient is now initialized as current user

`ContentServicesClient.getJdbcOperations()` should according to its documentation return a connection initialized as the current user. It did not, but now it does. For plugins, this means:

- It will potentially run as a different user.
- The initialization might cause it to run a bit slower, which is unnecessary if initialization is not really needed.
- It becomes important to close the manually created `ContentServicesClient` (it always is if running a query, but was not important if the client was just used to fetch the JDBC object).

Validate any use, and if needed, change to `ContentServicesEngine.getJdbcOperations()`, which is a non-initialized JDBC.

4.3.10. Switch user no longer support GET requests

HTTP requests to invoke the Switch user functionality can no longer use GET requests, it must be POST.

4.4. Upgrade from iKnowBase 7.7.x

4.4.1. Review form definitions

Form definitions are now more strictly validated. Form definitions should be reviewed. When upgrading consult with iKnowBase Product Development and see report at `/ikb$console/development/database/report_iknowbase/inconsistency`.

4.4.2. Add new details ACL for iKnowBase Content Studio

iKnowBase content Studio has a new document details view that displays all attributes for the selected document. This new view requires ACL with externalKey `CS_DETAILS_ACCESS`.

Add the ACL manually or merge the included transport set for iKnowBase `etc/EXP-IKB_MASTER_<release>-B46F6A1ED4ABECCFE040000A180057BE-iKnowBase_Data.dmp`.

If you add manually, the included Access Control List is defined as:

Table 1. `CS_DETAILS_ACCESS`

| Key | Value |
|------------------|---|
| Label (n) | Tilgangsgruppe for Content Studio superbrukere |
| Description (n) | Tilgangsgruppe for Content Studio superbrukere som skal se alle attributter på dokumentene. Kun administratorer og superbrukere må legges til. |
| Label (us) | Access group for Content Studio super users |
| Description (us) | Access group for Content Studio super users that should see all attributes when viewing their documents. This should only be administrators and superusers. |
| External key | <code>CS_DETAILS_ACCESS</code> |
| Visible | No |
| Grants | Group "IKB_ADMINISTRATORS" with privilege "Read". |

If you merge the included transport set:

1. If you plan to continue using the Classic image form (id=81) after upgrade (default is now a Java based image form):
 - a. Before import of transport set: Make a copy of the image form (id=81)
 - b. After import of transport set: Convert the image form to an iKnowBase classic form (click on the button in the form edit panel in Development Studio) and reapply custom changes
2. If you have customized the quicklink "CS Publish links" used in Content Studio pages and picklists:
 - a. Before import of transport set: Backup the quicklink "CS Publish links"
 - b. After import of transport set: Reapply any custom changes to the quicklink "CS Publish links".
3. Import transport set
 - a. Upload the file "etc/EXP-IKB_MASTER_<release>-B46F6A1ED4ABECCFE040000A180057BE-iKnowBase_Data.dmp" (ikb\$console → Development → Advanced → Import → Upload a new file).
 - b. Make no changes to the settings and run a pre-check.
 - c. Verify the result, and if ok, go back to the edit tab and continue with the "Merge to iKnowBase" action.

4.4.3. Migrate identity federation settings for "social authentication"

Generic support for OAuth2 (and OpenID Connect) identity federation enables sign in support for a wide range of external identity providers. We now rely upon Spring Security's support for OAuth2.

1. If you've previously enabled "social authentication", you'll need to change the following configuration settings:

| From | To |
|--|--|
| com.iknowbase.spring.security.social.PROVIDERID.clientId | spring.security.oauth2.client.registration.PROVIDERID.clientId |
| com.iknowbase.spring.security.social.PROVIDERID.clientSecret | spring.security.oauth2.client.registration.PROVIDERID.clientSecret |
| com.iknowbase.spring.security.social.PROVIDERID.enabled | DELETE |
| com.iknowbase.spring.security.social.enabled | com.iknowbase.spring.security.oauth2.enabled |
| com.iknowbase.spring.security.social.encryptedPassword | DELETE |
| com.iknowbase.spring.security.social.encryptedSalt | DELETE |
| com.iknowbase.spring.security.social.socialSignupURL | com.iknowbase.spring.security.form.signupURL |

(Where PROVIDERID is 'google', 'facebook', etc.)

- Change the allowed redirect URIs in the application registration you have with the external identity provider (represented by the `...clientId`):

| From | To |
|-----------------------|-----------------------------------|
| /ikb\$auth/PROVIDERID | /ikb\$auth/oauth2/code/PROVIDERID |

- If you use a custom login page, change the form action:

| From | To |
|------------------------------------|--|
| /ikb\$auth/PROVIDERID/authenticate | /ikb\$auth/oauth2/authorization/PROVIDERID? action=ikb\$auth |

Upgrade Gradle configuration

Major upgrade of Gradle to 5.x require some changes.

- Replace dependency configuration `compile` with `api` or `implementation`.
 - Use `api` if you want the dependencies to be transitive. This corresponds to the previous `compile` configuration.
 - Use `implementation` if you don't want the dependencies to be transitive.

Upgrade source

Major upgrade of java libraries, with the most notable being:

| Library | From | To |
|------------------|-------|-------|
| Spring Boot | 1.5.x | 2.1.x |
| Spring Framework | 4.3.x | 5.1.x |
| Spring Security | 4.2.x | 5.1.x |
| Spring Data REST | 2.6.x | 3.1.x |

The upgrade requires that you review, update and rebuild your plugins.

- Review changelogs and migration guides for Spring Boot:
 - [Spring Boot 2.0 Migration Guide](#)
 - [Spring Boot 2.1 Release Notes](#).
- Spring Data REST for iKnowBase

The Spring Data REST upgrade brings new method signatures to the custom iKnowBase repository implementation. Update to match the new signatures and resolve compile error and deprecation warnings.

Table 2. *RepositoryImpl

| From | To |
|------|----|
|------|----|

| | |
|--|---|
| <code>public <S extends T> Iterable<S> save(Iterable<S> entities)</code> | <code>public <S extends T> Iterable<S> saveAll(Iterable<S> entities)</code> |
| <code>public T findOne(ID id)</code> | <code>public Optional<T> findById(ID id)</code> |
| <code>public boolean exists(ID id)</code> | <code>public boolean existsById(ID id)</code> |
| <code>public Iterable<T> findAll(Iterable<ID> ids)</code> | <code>public Iterable<T> findAllById(Iterable<ID> ids)</code> |
| <code>public void delete(ID id)</code> | <code>public void deleteById(ID id)</code> |
| <code>public void delete(Iterable<? extends T> entities)</code> | <code>public void deleteAll(Iterable<? extends T> entities)</code> |

Table 3. Other notable changes

| From | To |
|--|--|
| <code>public PageRequest(int page, int size, Sort sort)</code> | <code>public static PageRequest of(int page, int size, Sort sort)</code> |

In addition, the ID is no longer required to extend `java.io.Serializable`.

3. Spring REST Docs are more strict and you may be required to update your tests.
4. `BootEmbeddedTestSetup` for full integration testing is now available from `iKnowBase` and you may replace your local `BootEmbeddedTestSetup` (may be named differently) in favor of the provided one.

4.4.4. Review duplicate mappings in user repository

New unique constraints on `IKB_USER.DOCUMENT_GUID` and `IKB_USER.DIMENSION_GUID` are now added during `upgradeAll` to resolve user synchronization issues where two accounts could map to the same person card/dimension.

The unique constraint on `IKB_USER.DN` has been removed, since the often stored value (leftmost RDN or CN) in this field is not required to be unique.

Review `upgrade` `log` and `Repository` `Check` `report` at `/ikb$console/development/database/report_iknowbase/inconsistency#/` and make sure all expected constraints are present.

4.4.5. LDAP sync will no longer fall back to DN lookup

The fallback to `IKB_USER.DN` lookup if the user was not found by username during sync has been removed (#885). If you rely on this particular behaviour (for example support for changing username) then you'll need to move this logic into the pre/post-procedures.

4.5. Upgrade from iKnowBase 7.6.x

4.5.1. Password algorithm in iKnowBase user repository has changed

Passwords stored in iKnowBase user repository will now by default use BCrypt. It still supports the old hashing algorithm and can verify both old and new style passwords, but it will change to BCrypt whenever the password is used during authentication or set using either the admin console, the setup application or the user activation page through activation token.

If you rely on integrations that use `ikb_authentication` package directly to verify password, you should consider migrating this functionality to java based BCrypt. If not, you may still continue using the old hashing algorithm by setting the configuration property `com.iknowbase.spring.security.ikbauth.passwordHandler=LEGACY`.

You may disable automatic password migration on authentication by setting the configuration property

`com.iknowbase.spring.security.ikbauth.legacyPasswordMigrationOnAuthenticationEnabled=false`.

4.5.2. Spring Security firewall settings

Spring Security's firewall settings are now more strict by default to better protect against frequent sources of security exploits.

If these new security rules block a request, they will normally log `The request was rejected because the URL contained a potentially malicious String...`. These types of requests should normally be avoided. Contact iKnowBase Product Development Team if you need to allow one or more of these common sources of security exploits.

4.6. Upgrade from iKnowBase 7.5.x

4.6.1. Changes to `ikb_global_prefs`-package

The mechanism for customizing the `ikb_global_prefs` database package has changed. **No manual steps are required** during upgrade, however please note the new mechanisms for changing these settings:

From iKnowBase 7.6, the `createGlobalPrefs` (also executed via `configureUser`) command will load custom values from the `ikb_installation_properties` table using instance_qualifier 'ikb_global_prefs', and use these when generating the package. The new mechanism also allows for adding custom properties, if desired.

To preserve your existing configuration, iKnowBase will automatically during the upgrade process add any non-default options you already have set in `IKB_GLOBAL_PREFS` to the `ikb_installation_properties` table.

4.6.2. URL encoding changes

URL encoding in iKnowBase has been updated to improve security and provide a more standardized experience. While most changes pose no risk to existing applications, the removal of iKnowBase's custom back url encoding in iKnowBase Classic might require updates in customer specific code.

Example:

- Start on page: `/example?p1=v1&p2=v2`
- Access a form from the current page (note the URL param `p_form_back_url`)
 - Old form URL: `/form?p_style_id=123456&p_form_back_url=/example?p1=v1^p2=v2`
 - New form URL: `/form?p_style_id=123456&p_form_back_url=%2Fexample%3Fp1%3Dv1%26p2%3Dv2`
- Look for custom code specifically handling URL params delimited with `^`.

4.6.3. WebDAV edit links in Content Studio

WebDAV edit links will by default only be available if the instance has WebDAV enabled. If you have deployed the WebDAV service to a different instance, you may explicitly enable the WebDAV links by setting configuration property `com.iknowbase.plugin.ikbcontentstudio.enableWebDavEditActions=true`.

Forms

To simplify handling List attributes, iKnowBase would previously ensure that all form bean properties of type `java.util.List` would be initialized to an empty list and never be null. This behaviour should have been limited to managed properties annotated with `@AttributeMapping`

From iKnowBase 7.6 backing form bean properties of type `java.util.List` without `@AttributeMapping` will no longer be initialized to an empty List. Check your existing form beans and ensure you don't rely on iKnowBase to initialize these properties.

4.7. Upgrade from iKnowBase 7.4.x

4.7.1. Resource configuration

The default configured embedded static resource handlers for `/ressurs/**` and `/plugin-resources/**` using configuration property `com.iknowbase.server.resource.embedded.handlers[index].*` have been grouped into a single handler for `/**` and serves resources from these locations:

- `classpath:/META-INF/resources/`
- `classpath:/resources/`
- `classpath:/static/`
- `classpath:/public/`

If you've **changed** configuration for a specific **embedded** resource handler you need to

1. See if the new configuration meets your needs, or
2. Change settings, such as caching, for `com.iknowbase.server.resource.embedded.handlers[0]`, or
3. Define a custom resource handler, which takes precedence over the embedded resource handler.

Spring Boot upgraded from 1.4.x to 1.5.x

iKnowBase has been upgraded from Spring Boot 1.4.4 to 1.5.3 and the Spring Boot wiki (<https://github.com/spring-projects/spring-boot/wiki/Spring-Boot-1.5-Release-Notes>) describes relevant changes.

In particular if you use `@ConfigurationProperties` validation for your plugins, this change applies:

If you have `@ConfigurationProperties` classes that use JSR-303 constraint annotations, you should now additionally annotate them with `@Validated`. Existing validation will currently continue to work, however, a warning will be logged. In the future, classes without `@Validated` will not be validated at all.

4.8. Upgrade from iKnowBase 7.3.x

4.8.1. Application configuration

Log configuration

If you rely on custom log configuration files (in Log4j v1.x format) you must upgrade these configuration files to Log4j 2.x format.

Note that log file names have changed from `log4j-<profile>.properties` to `log4j2-<profile>.properties`. See `application.properties.SAMPLE` for updated names.

Datasource configuration

Some properties have changed namespace due to upgrade of Spring Boot platform:

| From | To |
|---|--|
| <code>spring.datasource.<tuning options></code> | <code>spring.datasource.hikari.<tuning options></code> |
| <code>multipart.<all></code> | <code>spring.http.multipart.<all></code> |

See updated `application.properties.SAMPLE`.

Web Services configuration

Custom configuration option for the Web Services path (`/ws`) has changed from `com.iknowbase.ws.endpointRoot` to Spring Boot's default `spring.webservices.path`.

WebDAV configuration

If you use custom WebDAV file server in iKnowBase, you must update the new configuration option `com.iknowbase.webdav.pathExpr` to match the paths the WebDAV server should intercept. By default it will only intercept iKnowBase WebDAV Content server at `/ikb$content`.

4.8.2. Enable new REST API for user repository

A new plugin `iknowbase-rest-userrepository` is available in the distribution. Deploy it as a standard plugin.

The new REST service requires an Access Control List with external key `REST_REPOSITORY_ACCESS` to be present.

ACL privileges:

- READ privilege for list, read and query
- MODIFY privilege for create and update
- DELETE privilege for delete

You may change the ACL used by configuring `com.iknowbase.rest.*`

- `com.iknowbase.rest.custom.aclApiAcl` for Acl repository
- `com.iknowbase.rest.custom.aclMemberApiAcl` for AclMember repository
- `com.iknowbase.rest.custom.groupApiAcl` for Group repository
- `com.iknowbase.rest.custom.userApiAcl` for User repository

See detailed documentation available at `/ressurs/iknowbase/doc/html/rest/ikb/index.html` once the plugin has been deployed.

4.8.3. iKnowBase Plugin Development changes

Spring Boot upgraded from 1.3.8 to 1.4.4

iKnowBase has been upgraded from Spring Boot 1.3.8 to 1.4.4 and the Spring Boot wiki (<https://github.com/spring-projects/spring-boot/wiki/Spring-Boot-1.4-Release-Notes>) describes relevant changes.

In particular iKnowBase will now provide these additional test dependencies.

- `com.jayway.jsonpath:json-path`
- `com.jayway.jsonpath:json-path-assert`
- `org.assertj:assertj-core`
- `org.skyscreamer:jsonassert`

If you've included these in your iKnowBase Java SDK plugins, make sure you remove these explicit dependencies to avoid possible library collisions.

4.9. Upgrade from iKnowBase 7.2.x

4.9.1. WebDAV API - Lock Manager Events

WebDAV Lock Manager Events have been moved from non-API to official iKnowBase API area. If you have consumed these events in iKnowBase Plugins on earlier versions you need to update package locations for these events.

4.9.2. iKnowBase Authentication Plugin for Oracle WebLogic

iKnowBase Authentication Plugin for Oracle WebLogic is no longer supported. Use WebLogic's own ReadOnlySQLAuthenticator Authentication Provider if you require "container" authentication. See Installation Guide for configuration details.

4.9.3. Deploy and upgrade iKnowBase Content Studio

Consider if your site needs iKnowBase Content Studio. Note that iKnowBase Content Studio includes the document and image picklists which are used for publication. If you don't need iKnowBase Content Studio, you can skip this step.

iKnowBase Content Studio ships as an external plugin which must be deployed. To deploy iKnowBase Content Studio, follow the instructions in the [Installation Guide](#).

To upgrade iKnowBase Content Studio, please do as follows:

1. If you plan to continue using the Classic image form (id=81) after upgrade (default is now a Java based image form):
 - a. Before import of transport set: Make a copy of the image form (id=81)
 - b. After import of transport set: Convert the image form to an iKnowBase classic form (click on the button in the form edit panel in Development Studio) and reapply custom changes
2. If you have customized the quicklink "CS Publish links" used in Content Studio pages and picklists:
 - a. Before import of transport set: Backup the quicklink "CS Publish links"
 - b. After import of transport set: Reapply any custom changes to the quicklink "CS Publish links".
3. Import transport set
 - a. Upload the file "etc/EXP-IKB_MASTER_<release>-B46F6A1ED4ABECCFE040000A180057BE-iKnowBase_Data.dmp" (ikb\$console → Development → Advanced → Import → Upload a new file).
 - b. Make no changes to the settings and run a pre-check.
 - c. Verify the result, and if ok, go back to the edit tab and continue with the "Merge to iKnowBase" action.

4.9.4. iKnowBase Plugin Development changes

war plugins are no longer supported and all plugins must now use the regular **jar** setup. The **jar** projects have been enhanced with

- support for copying your additional libraries to build output directory
- support for generating a distribution zip file with your plugin code as .jar as well as all additional dependencies.

As always, merge the contents from the updated plugin starter project with your plugin project.

See Development Guide > iKnowBase Development Toolkit for details.

4.10. Upgrade from iKnowBase 7.1.x

4.10.1. iKnowBase application configuration

The iKnowBase application is now based on Spring Boot. This change brings MAJOR changes and enhancements to configuration of the embedded iKnowBase Web Server.

Your existing configuration contained in the properties file (e.g. `production.properties` or `iknowbase.properties`) MUST be migrated to the new configuration format.

1. Copy the provided `<distribution>/etc/application.properties.SAMPLE` as `application.properties`. Please note that `application.properties` is by default the required name of this file.
2. Migrate your settings from the old format to the new format.

While the new configuration format should be quite self-explanatory, you should note that:

- The `System.` prefix was previously used to set a System property, which was used to configure the iKnowBase application. This prefix is no longer in use and you may migrate your settings from `System.foo.bar.baz` to just `foo.bar.baz`.
- Embedded (Jetty) web server: While Spring Boot covers most settings under `server.*`, iKnowBase provides extra options under `com.iknowbase.server.*`.
- The static resources application `iknowbase-resources` is now part of the main application available at `/ressurs`.
- Custom static resources directories must now be specified using `com.iknowbase.server.resource.custom.handlers[<index>]`.

Advanced: The configuration options that are available and how they can be set are now based on Spring Boot. Please see [boot-features-external-config](#) and [common-application-properties](#) for more details.

4.10.2. iKnowBase application commands

With the move to Spring Boot, we no longer support specifying the properties file as the first parameter to `iknowbase.sh/IKNOWBASE.BAT`. The property file `application.properties` is the default and recommended name.

Example:

- OLD: `./iknowbase.sh production.properties upgradeAll`
- NEW: `./iknowbase.sh upgradeAll`

4.10.3. iKnowBase application logging

iKnowBase will now by default rotate logfiles on a daily basis. The application logs will log to `iknowbase.log` and change to `iknowbase.YYYY_MM_DD.log` after log rotation.

You may still provide your own log4j configuration file or even run without any (just standard out logging).

iKnowBase Web Server only:

The access logs will log directly to `iknowbase.request.YYYY_MM_DD.log`. Access logging will now log using NCSA format and supports various configurable options.

4.10.4. Static resources: Location and configuration

The static resources application `iknowbase-resources` is now part of the main application available at `/ressurs`.

See `application.properties.SAMPLE` for configuration options for the embedded resources as well as any custom resource areas you want to serve using the iKnowBase application.

Note for custom context root deployments only

The resource path is now relative to the context root for the main application. If you deploy to a custom context root, like `/example`, the static resource area will follow to `/example/ressurs` etc.

You must also ensure that the infrastructure (reverse proxy) maps the default paths to the context root paths.

- `/ressurs` to `/example/ressurs`
- `/plugin-resources` to `/example/plugin-resources`

4.10.5. Static resources: Cache headers

iKnowBase will now send cache headers for static resources (default areas: `/ressurs` and `/plugin-resources`).

Review any existing settings for caching of static resources. If you've already configured an intermediate server such as Apache httpd with cache headers, consider removing these settings and adjust the iKnowBase configuration instead.

See Development Guide > Performance and `application.properties.SAMPLE` for more details.

4.10.6. Static resources: Versioned resource resolution

iKnowBase supports versioned address based on content for static resources. These resources will by default be served with long cache max-age for browser and any intermediate cache capable servers since any change to these resources will generate a new address for the changed resources.

To take full advantage of this new capability, you'll need to update your presentation templates. See Development Guide > Performance and `application.properties.SAMPLE` for details.

4.10.7. Static resources: In-memory caching

All static resources, such as the embedded resources available at `/ressurs` and `/plugin-resources`, are

cached in-memory (non replicated) in the iKnowBase application for performance reasons.

This means that any change to these resources, or any other custom resource locations you define, require that you clear the cache (name prefix "serverResourceCache") either by using `ikb$console` or by restarting the application.

If you prefer to be able to change the custom resources without clearing the cache you may

- set the custom handler group's `defaultCacheResourceResolutionEnabled` to false to change the group's default setting, or
- set the specific resource handler's `cacheResourceResolution` to false and disable the in-memory cache for that particular handler.

Please note that disabling in-memory cache reduces performance to about 1/3 compared to in-memory cached resources (still quite fast, but not THAT fast).

See `application.properties.SAMPLE` for details.

4.10.8. Compression

Compression of text content is highly recommended to reduce bandwidth usage and transfer time from server to client.

The iKnowBase WebServer will by default compress all text content (html, text, css, js, xml) if the client signals that it supports compression using `@Accept-Encoding@` header. All modern browsers will send this header by default.

If you've already configured compression in an intermediate server, such as Apache httpd, you may consider disabling the compression support in Apache (or at least one of them) to keep the infrastructure configuration and functionality clean.

See `application.properties.SAMPLE` for configuration options.

4.10.9. HTTP Sessions

Default session handling is now using database persisted sessions and the sessions are fully managed by the application (not the application server).

The change also means that session cleanup due to session inactivity (timeout) is a global cleanup. If you have more than one iKnowBase application running against the same database repository, the timeout should be set to the same value for all. If you require separate session timeout settings for different sites, discuss the requirement, configuration possibilities and consequences with the iKnowBase Product Development team.

While the new database persisted sessions is the recommended approach, it is still possible to use in-memory or the server's native in memory session handling, see installation guide and `application.properties.SAMPLE` for details.

HTTP Session Attributes

The new default handling of data stored as session attribute requires that if you modify an existing session attribute, you must call `session.setAttribute(key, value)` to persist the updated object. Review all code calling `session.getAttribute` or `getSessionAttribute` and make sure modifications are persisted. `setAttribute` on session will mark the attribute as changed.

Background: Session attribute handling in earlier versions of iKnowBase had the same requirement to be able to replicate session attributes (replication was available for WebLogic and GlassFish), but you would be able to modify objects without an explicit `setAttribute`, however the attribute would not have been replicated. iKnowBase Web Server did not support session replication earlier, but you would be able to store a modified attribute without explicit calling `setAttribute`.

4.10.10. Content Transformation Service

The new Content Transformation service leverages preexisting support from existing Image Editor, File Converter, Oracle Multimedia and Oracle Text.

Image Editor, Oracle Multimedia and Oracle Text are by default enabled without any configuration requirements.

FileConverter

FileConverter was previously only executed by the Batch Server, but can now be triggered via both Content Server (Viewer) and Transformation Server (Batch).

If you've previously installed FileConverter and you want to use FileConverter via Content Server (HTTP to `/Content` or `/private/content`) you must make sure that FileConverter is installed on all servers running the Content Server or the service will not be available.

If you only use FileConverter through the PLSQL API you don't need to change anything.

With the exception of `com.iknowbase.batch.fileConverter.outsideInDirectory`, all `com.iknowbase.batch.fileConverter` configuration options have been removed. File Converter for Batch is now handled by the Transformation Server, which has similar AQ configuration options.

PLSQL API `batch_fileconvert_client` is still available for backwards compatibility. It uses the new PLSQL API `ikb_transformation_service`. You should consider changing to the new PLSQL API in custom code.

ImageEditor

All `com.iknowbase.batch.imageEditor` configuration options have been removed. File Converter for Batch is now handled by the Transformation Server, which has similar AQ configuration options.

PLSQL API `batch_fileconvert_client` is still available for backwards compatibility. It uses the new PLSQL API `ikb_transformation_service`. You should consider changing to the new PLSQL API in custom code.

4.10.11. Content Transformation Usage

By introducing the new content transformation service from iKnowBase 7.2, image variants will no longer be populated as attributes when an image is stored. Instead, image variants will be transformed on-the-fly and cached for later use. The upgrade script will automatically convert instances of `/attr=<attribute value guid>` to `/transformation=<transformation type>`. This applies to stored HTML-content (in `DOCUMENT` and `DOCUMENT_ATTRIBUTE` LOB-columns). The presentation style will also be migrated to use transformation instead of Image variant and the special functions [View as PDF/HTML/TEXT](#).

Still, there might be traces of `/attr=` in on-site code that need to be fixed.

- Check your custom PL/SQL for instances of `/attr=`. Check the page `/ikb$console/development/database/report_iknowbase/upgrade`. The code is normally a select against `document_attribute` where the variant was stored.
- Check your client code by searching `ikb$console` for instances of `/attr=`
- Be aware that transformation functions in a presentation style always will create a transformation. If the variant was non-existing in prior releases, the original images was displayed.

In PL/SQL code, skip the join against `document_attribute` and use a transformation-clause instead. e.g. `select '/Content/' || da.document_id || '/attr=' || da.object_guid || '/' || d.filename url from document d, document_attribute da` can be replaced with `select '/Content/' || d.document_id || '/transformation=' || <name of the transformation> || '/' || d.filename url from document d...`

4.10.12. LOBS stored as SECUREFILE

SecureFiles was first introduced in Oracle Database 11g. Write performance using SecureFiles is enhanced by a new cache that buffers writes before writing to disk. Advanced features such as compression and deduplication reduce disk I/Os further at the cost of a slight CPU overhead. Intelligent pre-fetching especially during streaming reads offer better performance during reads. SecureFiles uses an advanced space management routine that is optimized for large, contiguous I/Os. In addition, there are several innovations with the wire protocol, locking algorithms etc. that make SecureFiles far more scalable than LOBs or file systems. iKnowBase 7.2 is the first release with SECUREFILE as its default LOB storage mechanism.

- All LOB objects in a new installation will always use SECUREFILE.
- Custom LOB objects created on-site should be created with a SECUREFILE instruction. It can either be done by a database initialization parameter (`ALTER SYSTEM SET db_securefile = 'ALWAYS'`) or in the create-statement (`create table ... (lob_col BLOB) LOB (ERR_MSG) STORE AS SECUREFILE`).
- Upgrade from prior releases require some manual steps to move `DOCUMENT` LOB data from BASICFILE to SECUREFILE.
 - Make sure you have sufficient disk space (as least as the total size of the tables `DOCUMENT`, `DOCUMENT_ATTRIBUTE`, `VERSIONED_DOCUMENT` and `VERSIONED_DOCUMENT_ATTRIBUTE`).

- Check the page `/ikb$console/development/database/report_iknowbase/upgrade`. It can report disk usage for these tables.
- Make sure to back up the tables `DOCUMENT`, `DOCUMENT_ATTRIBUTE`, `VERSIONED_DOCUMENT` and `VERSIONED_DOCUMENT_ATTRIBUTE`.
- If running Oracle Enterprise Edition, do the following operations:
 - Grant permissions: `./iknowbase.sh dbscriptAsSys common/securefile_grant.sql <logfile>`
 - Create interim tables: `./iknowbase.sh dbscript common/securefile_tables.sql <logfile>`
 - Move from BASICFILE to SECUREFILE: `./iknowbase.sh dbscript common/securefile_ee.sql <logfile>`
 - Verify the error log before you continue. Either check the `ikb$console` page `/ikb$console/development/database/report_iknowbase/sql_script` or run the query `select instance, timestamp, to_char(err_msg) from ikb_error_tab where instance like 'redef_securefile_%' order by error_id`. If all columns are already converted to securefile, there is no need to recreate the Oracle Text index.
 - Create the Oracle Text index: Log off the session, log on again with iKnowBase schema owner and execute `begin ikb_adm_ctx.create_index; ikb_adm_ctx.start_indexing; end;`
 - Revoke the permissions : `./iknowbase.sh dbscriptAsSys common/securefile_revoke.sql <logfile>`
- If running Oracle Standard Edition, do the following operations:
 - Move from BASICFILE to SECUREFILE: `./iknowbase.sh dbscript common/securefile_se.sql <logfile>`
 - Verify the error log before you continue. Either check the `ikb$console` page `/ikb$console/development/database/report_iknowbase/sql_script` or run the query `select instance, timestamp, to_char(err_msg) from ikb_error_tab where instance like 'redef_securefile_%' order by error_id`. If all columns already is converted to securefile, there is no need to recreate the Oracle Text index.
 - Create the Oracle Text index: Log off the session, log on again with iKnowBase schema owner and execute `begin ikb_adm_ctx.create_index; ikb_adm_ctx.start_indexing; end;`

4.10.13. Removed end point

The unofficial endpoint `/cs/<externalkey>/valuelist.json` is no longer supported. Verify that this end point is not in use on your site by performing a search in Development Studio.

4.10.14. Development Toolkit for Java

The iKnowBase Development Toolkit for Java has been simplified and you may now choose between:

- `sample-starter-singleproject`
- `sample-starter-multiproject`

The single project setup is recommended if you want to share this plugin with other projects/teams/customers.

The multi project setup is recommended if you develop a set of plugins for a specific customer and you don't intend to share these plugins.

Developers are strongly encouraged to re-read the updated iKnowBase Development Toolkit section in the Development Guide.

Upgrade steps:

1. Update your gradle files to match the setup used in one the sample-starter projects.
 - `gradle.properties` (`artifactory*`-variables are no longer used and may be removed).
 - `gradle/wrapper/gradle-wrapper.properties`.
 - `build.gradle` (Greatly simplified through use of new iKnowBase Gradle script plugins).
2. Re-import / refresh your gradle project in IntelliJ.
3. Update all `src/main/resources/META-INF/spring.factories` files.
 - OLD: `com.iknowbase.api.server.SpringModule=Your.Spring.Module`.
 - NEW:
`org.springframework.boot.autoconfigure.EnableAutoConfiguration=Your.Spring.Module`.
4. Update application configuration (filename and contents).
 - OLD: `iknowbase.properties`
 - NEW: `application.properties` (Copy `application.properties.template` from `sample-starter-*`)
5. Update run configuration in IntelliJ.
 - OLD: `com.iknowbase.jetty.util.QuickstartFactory` ("Application" run configuration type)
 - NEW: `com.iknowbase.BootEmbeddedApplication` ("Spring Boot" run configuration type)
 - Profile: Use profile `dev` for local development. This will disable various optimizations that will reduce the need for restarts. With Spring Boot plugin to IntelliJ use the `Active Profiles` section. With standard Java application, use JVM property `-Dspring.profiles.active=dev`.
6. Optional: Migrate and simplify your Spring managed beans from manual `@Bean` instantiation to `@ComponentScan`. See samples.
 - Review/Update: ALL controller methods that return a response that should be interpreted as http response body (String, JSON, ..) MUST declare this using `@ResponseBody` on the controller method. This is and has been the recommended way, but iKnowBase 7.1 and earlier would resolve this as JSON without `@ResponseBody`. From iKnowBase 7.2 you will get an error stating that the page(or view) could not be found.

Note that all "ikb*" gradle tasks have been removed from the new setup as they are no longer required.

4.10.15. Updated minimum version of Oracle WebLogic

The minimum version of Oracle WebLogic is updated, see the chapter "Supported application servers".

4.10.16. Instant on Oracle WebLogic logs warnings (unresolved issue IKB-3343)

iKnowBase Instant will trigger warnings 'WELD-000714' from `org.jboss.weld.Servlet` and `WELD-000225` from `org.jboss.weld.Context` when the client closes the Instant connection, either explicitly by unsubscribing or when the web browser navigates away from a page with an active Instant connection.

iKnowBase Instant works despite these warnings and until the issue is resolved you should consider setting log level for these packages to `ERROR` to avoid spamming the logs.

4.11. Upgrade from iKnowBase 7.1.0

4.11.1. WebDAV

7.1.1 changes the WebDAV lock infrastructure from an in-memory to a database persisted solution. Default lock timeout is set to 1 hour (default Microsoft Office lock timeout) and the timeout is now also configurable (WebDAV configuration).

This change is done automatically and no additional upgrade steps are required if the default suits your needs.

With the lock infrastructure persisted to database, the WebDAV module may now be clustered.

4.12. Upgrade from iKnowBase 6.7

4.12.1. Infrastructure requirements

From this release, iKnowBase requires Java 8u40 or newer to run. The embedded web server automatically supports this, but if you use WebLogic you will also need to upgrade to the currently supported version newer. GlassFish v3 does not support Java 8, so GlassFish v3 is no longer supported. The embedded web server supports all known workloads currently being served by iKnowBase on GlassFish v3.

iKnowBase web server

The iKnowBase web server is now based on a Jetty version, which uses updated HTTP specifications.

This upgrade removes support for HTTP/0.9. While this update should not affect end user clients, it might affect systems requesting information from iKnowBase over HTTP. The systems need to adjust to follow updated HTTP specs.

4.12.2. New name for the wrapper scripts

Previously, the iKnowBase setup program and quickstart web server was started using the `QUICKSTART.BAT` or `quickstart.sh` scripts. This has been renamed to `IKNOWBASE.BAT` or `iknowbase.sh`. All scripts that reference the old script will have to be modified.

4.12.3. Security configuration changes

The LDAP authentication configuration option 'userDnPattern' has been changed to 'userSearchBase'. Update your configuration accordingly.

Example:

| Old option | Old value | New option | New value |
|-----------------|-------------------------|------------------|------------------|
| userDnPattern.1 | CN={0},CN=Users | userSearchBase.1 | CN=Users |
| userDnPattern.2 | CN={0},CN=Premium Users | userSearchBase.2 | CN=Premium Users |

The LDAP search will, like before, search for users in the specified tree(s) and below.

4.12.4. Desupport of iKnowBase Add-in for Microsoft Office

During upgrade, any usage of the presentation style function "edit document" is changed to an "edit using webdav" function instead. A component that already had both functions will now have two copies of the webdav-function; you should then manually remove the extra function after upgrading.

4.12.5. Merge Solr search engine configurations

Previous versions allowed you to set up two different URLs for each search source, one for indexing and one for searching documents. This was almost never used, and all known installations use the same URL twice. It is now only possible to specify a single URL for both indexing and searching. If you need different configurations, create a separate search engine configuration for each.

4.12.6. Service API for Java

In the java-version of the Service API (the interface DocumentService), several methods have received new overloaded versions. If you ever called any of these functions with a literal null parameter, you will have to add a cast to your code:

- setDocumentIdentity
- setParentDocumentReference
- setDocumentTypeReference
- setAclReference
- setStatusReference

```
// documentService.setAclReference (null);
documentService.setAclReference((ObjectReference)null);
// or
ObjectReference aclReference = null;
documentService.setAclReference(aclReference);
```

4.12.7. FreeMarker API

The formatted html value of a field, ie text and html properties, is escaped using Apache Commons, which escapes according to the HTML4 specification. In earlier versions of iKnowBase, a custom function which didn't escape norwegian characters was used.

4.12.8. HTML portlet #PARAM substitutions are now limited to strict validation

#PARAM substitutions in HTML portlets are now limited to strict validation due to security issue IKB-3068. Numbers, date strings and simple system strings (typical used as external key) are allowed. All other input values will result in logged (WARN) validation error "Unable to substitute #PARAM-tags..".

If you rely on any other types of input to #PARAM tags, you need to rewrite this functionality.

4.12.9. Upgraded Solr client libraries

The embedded Solr client libraries have been upgraded. With the version, there have been some API changes. The most relevant changes are listed below, but for full details you will need to check the Solr documentation.

- SolrQuery deprecated methods have been removed:
 - setSortField(String, ORDER) should use setSort(...)
 - addSortField(String, ORDER) should use addSort(...)
 - removeSortField(String, ORDER) should use removeSort(...)
 - getSortFields() should use getSorts()

4.12.10. iKnowBase Content Studio configuration

The iKnowBase Content Studio plugin requires a set of metadata with the external keys as given in the table below. Your site can be configured to use custom external keys, see [iKnowBase Installation Guide > Content Studio Plugin](#). Ensure that your site is either set up with the default external keys or that you have added the necessary configuration.

| Type | Label | External key | Usage |
|-----------|---------------------------------|------------------------|---|
| ACL | Access group for Content Studio | CS_PAGE_ACCESS | User authorization |
| Attribute | Copyright | IKB_ATTR_COPYRIGHT | Image form and image metadata; Automatically extracted and stored as document attribute when image is created, maintainable in image form |
| Attribute | Image Archive | IKB_ATTR_IMAGE_ARCHIVE | Image form |

| Type | Label | External key | Usage |
|----------------|--|-------------------------|---|
| Attribute | Photographer | IKB_ATTR_PHOTOGRAPHER | Image form and image metadata; Automatically extracted and stored as document attribute when image is created, maintainable in image form |
| Attribute | Image height | IKBIMAGE_HEIGHT | Image form |
| Attribute | Keep image ratio | IKBIMAGE_RATIO | Image form |
| Attribute | Image width | IKBIMAGE_WIDTH | Image form |
| Attribute | iKB Common Subtypes | IKB_COMMON_SUBLIST | Document archive and picklist (filter) |
| Attribute | iKB Related Object | IKB_RELATED_OBJECT | Newsarticle form (Optional) |
| Attribute | iKB Channel | IKB_CHANNEL | Newsarticle form (Optional) |
| Attribute | iKB Image | IKB_IMAGE | Newsarticle form (Optional) |
| Doctype | Images | IKB_DOCTYPE_IMAGE | Image and document archives and picklists, image form |
| Doctype | Information | IKB_DOCTYPE_INFORMATION | Newsarticle form (Optional) |
| Form | Image | CS_FORM_IMAGE | Image form |
| ValuelistValue | Finished (Valuelist:iKB Document Status) | IKB_COMPLETE | Document for approval page (IKB\$STATUS filter) |

4.12.11. iKnowBase Process Studio

iKnowBase Process Studio has been converted to an external iKnowBase plugin and is no longer installed by default. The plugin is provided alongside the iKnowBase distribution files. For installation details, see iKnowBase Documentation > Installation Guide > Java Applications > Installing plugins and patches.

4.12.12. Oracle JDBC driver (bug #19857183)

Due to a bug in the Oracle JDBC driver (bug #19857183), certain XML operations are only available when using the Oracle 12c database.

iKnowBase issue reference: IKB-2878

4.12.13. Repository changes and custom code

iKnowBase 7.0 has introduced a few changes that might have an impact on custom PL/SQL code.

| Description | Solution |
|---|---|
| IKB_PORTLET_PREFS.REFERENCE_PATH is replaced by ID | Queries against IKB_PORTLET_PREFS with reference_path in the statement has to use ID instead. e.g. "where reference_path = ", use "where id = " |
| DOCUMENT.CONTENT_TYPE doesn't exist anymore | CONTENT_TYPE was used to identify if the content was text or binary. Use the column DOCUMENT.STORAGE_TYPE instead. The possible values are FILE, TEXT, URL, XML or NONE. |
| IKB_PCK_DOCUMENT.GET_FORMAT (p_filename) doesn't exist anymore | The function returned ikb_format.content_type based on the extension. Use the column DOCUMENT.STORAGE_TYPE instead. |
| Deprecated Object types (IKBACLTYPE, IKBGENCODES + GENCODEVALUES) | The object types still exist, but we recommend to use OT_ACL/CT_ACLS, OT_VALUELIST/CT_VALUELISTS and OT_VALUELIST_VALUE/CT_VALUELIST_VALUES |
| IKB_SERVICE_API.SAVE_DOCUMENT.P_CONTENT_OPERATION | By default, P_CONTENT_OPERATION is set to MERGE if you don't explicitly set it. If you then update a document without any content (e.g. ot_document.binary_content/text_content/url/xml_data is null), it will clear the content fields. You have to set P_CONTENT_OPERATION to IKB_SERVICE_API.SAVE_OPERATION_NONE to avoid a clearing of the content data. To identify all places where the function is used, please run a query like this : Select * from all_source where upper(text) like '%IKB_SERVICE_API.SAVE_DOCUMENT%'. |
| New signatures for some functions in OID_SYNC | The functions Get_group_memberships, Get_group_membership and Getattributevalue now use an object type to transfer sync profile data. oid_sync.ldap_instance_rec has been introduced and if you need to create an instance of it, use oid_sync.initialize (p_sync_id IN NUMBER, p_external_key IN VARCHAR2 DEFAULT NULL) RETURN oid_sync.ldap_instance_rec; |

4.13. Upgrade from iKnowBase 6.6

4.13.1. Application to modules

All web applications have been merged to one web application.

Review your current deployments and deploy the application with the required modules enabled. By default, the modules Batch, Studio and Viewer are enabled.

See installation guide for updated instructions and configuration.

4.13.2. WebServices

The application `iknowbase-webservices-webapp` has been removed, and the WebServices functionality has been incorporated into the single `iknowbase-webapp`. This means that there is (by default) no deployment at the endpoint `/ikbWebServices` anymore, and references to `/ikbWebServices/ws` will thus not work.

The web services endpoint root is from this release available as an installation property. The default value is `/ws`. You should change this to `/ikbWebServices/ws` for existing sites which already use the iKnowBase web services.

Note! On WebLogic Server the web services endpoint root must be changed to something different than `/ws`, e.g. `/ikbWebServices/ws`, as the `/ws` endpoint in iKnowBase is currently reserved for web socket communication when deployed on WebLogic.

4.13.3. Plugin Development

You need to create a new plugin development workspace and manually migrate your plugins to the new build structure. See updated plugin development documentation.

Update all Spring Controller plugins must

- Replace `@Controller` with `@RequestMapping` annotation.
- Add new `@Configuration` class as the Spring beans factory that will create your Controller.
- Add new `spring.factories` file that points to the `@Configuration` class.

4.13.4. Instant

Javascript `onError` callback will now be called for all server errors. Previously this required custom error detection as not all server errors would result in `onError` callback.

If you require the old reconnect behavior, set atmosphere option `reconnectOnServerError` to true.

4.14. Upgrade from iKnowBase 6.5

4.14.1. Migrate FreeForm and tabular presentation styles

This release offer a tool to convert from free form/tabular styles to freemarker templates. You can do it either one by one, or as a bulk operation to convert all styles. You do also have the option to rollback. The functions are available from iKnowBase Studio → Development tools → Presentation styles.

4.14.2. Authentication

Customers using iKnowBase Quickstart (now known as iKnowBase Web Server) need to review all authentication configuration, since all iKnowBase Web Server specific modules has been replaced by new authentication modules.

Customers using Oracle WebLogic may use the default container mode for username and password authentication. They may also change from container mode to the new set of authentication modules. Use of some of WebLogic authentication modules like SPNEGO and SAML2 require special deployment descriptor and role protection not included in the standard web archive to function properly. Contact support for assistance if you require use of these WebLogic authentication modules. Note that iKnowBase's set of authentication modules includes both SPNEGO and SAML2.

4.14.3. Authorization

The roles IKB_USERS, IKB_DEVELOPERS and IKB_SYSADMINS are no longer in use. Groups that exist only to provide these roles may be removed.

Users that need developer / system administrator access must have the admin flag set in the iKnowBase User Repository. User synchronization may need to be adjusted if administrator access is controlled from an external repository.

4.14.4. Logout

If in use, change the logout target from /ikb\$logout to /ikb\$auth/logout and the redirect URL from path parameter to the new url parameter "redirect".

4.15. Upgrade from iKnowBase 6.4

4.15.1. New signature for Custom Save procedures

Custom Save-procedures are used when the default behavior during a save process from a form needs customizations. Normally the starting point is the standard procedure `ikb_ce_custom_editor_portlet.save_document` when a new custom save procedure is created. The standard procedure signature has been expanded during the years and to enable new functionality in custom save procedures you need to change the signature and also some of the logic within the procedure. To identify mismatches between the standard procedure and a custom procedure, use the report "Custom Save (Form) compability" under `ikbStudio` → Database Admin → Reports. For backward compability it will work AS IS, but new functionality will not be enabled. The list describes the arguments and what functionality it enables:

| Argument name | Description |
|-------------------|--|
| p_description | Replaces p_description_array (used by the LEAD-attribute in iKnowBase). From iKnowBase 6.5, large text areas can be posted as CLOBS. Enables support of arbitrary text-editors in Forms. |
| p_text_indexes | Replaces p_text_array (used by the CONTENT-attribute in iKnowBase). From iKnowBase 6.5, large text areas can be posted as CLOBS. Enables support of arbitrary text-editors in Forms. |
| p_attribute_clobs | Replaces p_long_text_arrays (used by the CLOB-attributes in iKnowBase). From iKnowBase 6.5, large text areas can be posted as CLOBS. Enables support of arbitrary text-editors in Forms. |
| p_session_id | Used to check if the session has changed since the form was loaded. |
| p_last_timestamp | Used to check if a document has been changed since the form was loaded. |

Make sure to add the arguments to the call of the stored procedure `ikb_ce_custom_editor_portlet.func_save_document` too, e.g:

```
l_document_id := func_save_document (
    ...,
    p_description      => p_description,
    p_text_indexed    => p_text_indexed,
    p_attribute_clobs => p_attribute_clobs,
    p_last_timestamp  => p_last_timestamp,
    p_session_id      => p_session_id);
```

4.15.2. iKnowBase Quickstart sessions cookies

To avoid session collisions between iKnowBase Webapp deployed to / and any other applications also using sessions, the sessionid is given a unique name per web application.

- Old: `JSESSIONID`
- New. `IKBSESSION` using default session handling
 - `JSESSIONID` using native WebLogic sessions (not default)
 - `IKBSESSIONSERVER` using native iKnowBase Web Server sessions (not default)

4.15.3. iKnowBase Instant

Reconnect on close

In case the server is unavailable, sends an error or there is a network outage for the client, the iKnowBase Instant JS API will no longer reconnect forever to prevent browser locking and unnecessary server load. Five (5) attempts are made to reconnect before the connection is aborted with onError callback. The atmosphere option `maxReconnectOnClose` controls this behavior.

onOpen-callback

When using the default long-polling transport, the onOpen callback will now be triggered properly without the client needing to publish a message.

As described in the previous section, the onError callback will be triggered after 5 reconnect attempts (and onReconnect callbacks) are made.

JOIN-message

Javascript clients will no longer receive JOIN message for their own join. The user is still present in the USERS message sent after joining if the client subscribes to these messages.

Message format

The message format **IKB** used by the asynchronous javascript clients carried a **data** payload encoded as JSON string. This extra encoding has now been removed and clients need only parse the whole response message body.

In the onMessage callback, keep the JSON parsing of the response.responseBody to IKBResponseMessage object, but remove the extra JSON-parsing for IKBResponseMessage.data.

Configuration

The iKnowBase Instant installation properties configuration has been adjusted. Review the renamed configuration changes and update installation_properties accordingly.

Removed:

- com.iknowbase.instant.suspendTimeoutLP: Default heartbeat functionality has been added.

Renamed:

- disconnectCleanupInactivityThreshold:
- cleanupDisconnectedConnectionsThreshold

disconnectCleanupInterval: cleanupTopicThreshold

Added:

- broadcastDelayUserListUsers
- broadcastDelayUserListJoin
- broadcastDelayServerRequest

4.16. Upgrade from iKnowBase 6.3

4.16.1. Solr

Due to the improved Solr support, the syntax for referring to a solr search client from a groovy script has now changed:

```
// Old vs new
// def client = iknowbase.beans.searchClient
// def client = searchClients.<name>; e.g. for the intranetsearch
engine: def client = searchClients.intranet
```

The old syntax is typically used only a few places, and can easily be found using the search function in the Development Studio.

4.16.2. iKnowBase Application is deployed to / by default

The iKnowBase application has traditionally been deployed to /ikbViewer. The application has supported context root /, but this is now set as the default context root. See [Installation Guide > iKnowBase Web Server](#)

4.17. Upgrade from iKnowBase 5.8 or lower

If you are upgrading from iKnowBase 5.8 or lower, please contact the iKnowBase product team.

Chapter 5. Closed issues

5.1. Release 8.3

5.1.1. New features

| Issue# | Description |
|--------|-------------|
|--------|-------------|

5.1.2. Improvements

| Issue# | Description |
|--------|-------------|
|--------|-------------|

5.1.3. Bugfixes

| Issue# | Description |
|--------|--------------------------------------|
| #894 | Missing documentation for Java forms |

5.2. Release 8.2

5.2.1. New features

| Issue# | Description |
|--------|---|
| #1033 | Make ImageEditingService a documented API |

5.2.2. Improvements

| Issue# | Description |
|--------|--|
| #903 | Support Solr 8 |
| #958 | Batch emailsender should not be blocked if a recipient fails |
| #1019 | Upgrade Spring Boot from 2.4.1 to 2.6.14 |
| #1021 | Upgrade Gradle from 6.6.1 to 6.9.1 |
| #1024 | Upgrade Kotlin from 1.4.21 to 1.4.32 |
| #1025 | Remove special treatment of Internet Explorer 7 to 9 |
| #1030 | Remove leftover references to Oracle Workflow |
| #1038 | Let pagerunner deque timeout be configurable |
| #1042 | Upgrade Groovy to 3.0.13 |
| #1049 | Support salted SHA1 password hashes |
| #1050 | Generated export .dmp files does not get an ACL |
| #1055 | Add way to abort sending newsletters without content |

| Issue# | Description |
|---------------|--|
| #1064 | Validate email addresses upon subscribing to newsletter |
| #1067 | ikb\$console API endpoints expose all users and groups |
| #1073 | Upgrade Oracle JDBC driver to 21.3 |
| #1078 | Update image editor dependencies |
| #1100 | Replace % with _ in file name in Content URLs |
| iknowbook#125 | Make it possible to configure the TinyMCE-profile |
| iknowbook#128 | Rename package/configprops from no.acando.iknowbase to com.iknowbase |
| microsite#91 | Rename package/configprops from no.acando.iknowbase to com.iknowbase |

5.2.3. Bugfixes

| Issue# | Description |
|-------------------|---|
| #399 | IKB-3049: ikb\$console header should support PDB or service name for multitenant databases |
| #996 | When a user is deleted from IKBStudio, the reference of this user in the "userconnection" table is not getting deleted. |
| #1023 | Set default log dir to "work/logs" rather than literally "\${sys:LOG_PATH}" |
| #1029 | Log message was not propagated when message type not logged in ikb_error_tab |
| #1031 | Inline help in ikb\$console is missing |
| #1034 | Broken UTF-8 chars in URL upon homeplace URL-mapping |
| #1043 | portlet_manage_event.run_event may show wrong event id in error log |
| #1044 | LDAP sync can fail during group sync if attribute is set but empty |
| #1046 | It's possible to initialize an already initialized connection |
| #1059 | Form validation give NPE on non-declared built-in attributes |
| #1066 | In viewer, sorting by an attribute of document link fails |
| #1069 | OT_BATCH_PAGEENGINE_MESSAGE has too small buffer |
| #1070 | Don't equal "None" and empty value for SameSite cookie parameter |
| content-studio#30 | Document attribute viewer hides decimal digits |
| content-studio#31 | In attribute viewer, CLOB-link for description and content does not work |
| content-studio#32 | In attribute viewer, parent doc is not listed |

5.3. Release 8.1

5.3.1. New features

| Issue# | Description |
|--------|--|
| #941 | Upgrade to Java 11 |
| #978 | Support Oracle Cloud Autonomous Database |

5.3.2. Improvements

| Issue# | Description |
|--------|--|
| #944 | Upgrade jsoup from 1.11.3 to 1.13.1 |
| #947 | Remove Nashorn support due to marked for removal in jdk |
| #949 | Upgrade Kotlin from 1.3.21 to 1.4.21 |
| #952 | Upgrade Atmosphere to 2.5.15 |
| #953 | Set default socket read timeout for jdbc |
| #954 | Batch queue listeners should not start before application is ready |
| #968 | Upgrade commons-text to 1.9 |
| #969 | Upgrade Oracle jdbc driver to 19.3.0.0 |
| #975 | Use jackson as the default json-path provider |
| #981 | Upgrade Java Simon to 4.2.0 |
| #983 | Remove support for datasource monitoring using Java Simon wrapped datasource |
| #985 | Support Oracle Database 19c |
| #1006 | Make it visible in the user console whether a user has a password |
| #1009 | Upgrade to Spring Boot 2.4.1 |
| #1013 | SwitchUser defaults to POST only from Spring Boot 2.2.6 |
| #1016 | Upgrade Groovy to 3.0.7 |
| #1018 | Upgrade to Gradle 6.6.1 |

5.3.3. Bugfixes

| Issue# | Description |
|--------|---|
| #943 | NullPointerException in console runtime request report |
| #946 | Batch Page Engine must always free temporary clob regardless |
| #951 | ikb\$console runtime config fails if spring.application.name is set |
| #961 | Repository check report of overridable forms always list all form runners |
| #966 | Vulnerability: CVE-2019-10086 |

| Issue# | Description |
|--------|--|
| #999 | ContentServicesClient.getJdbcOperations() didn't return connection initialized as the current user |
| #1015 | Forms with a required file attribute fails validation |

5.4. Release 8.0

5.4.1. New features

| Issue# | Description |
|--------|---|
| #911 | Generic support for OAuth2 (and OpenID Connect) |

5.4.2. Improvements

| Issue# | Description |
|--------|--|
| #32 | Remove Jetty server header through standard Spring Boot Configuration |
| #361 | IKB-2844: EHCACHE: ObjectGraphWalker: The configured limit of 1,000 object references was reached.. |
| #384 | Add support for HTTP/2 in iKnowBase Web Server |
| #531 | Use of application.properties for PropertiesLauncher is deprecated |
| #582 | Upgrade Spring Boot from 1.5.x to 2.1.x |
| #680 | Upgrade to log4j2 version 2.11.2 |
| #832 | Verify support for Oracle database 18c (12.2.0.2.x) |
| #835 | Replace Spring Social authentication with Spring Security 5 due to Spring Social End Of Life |
| #883 | Support custom interceptor before SPNEGO challenge is issued |
| #886 | Consistent order of rows in a result set generated by a classic viewer/searchsource should be guaranteed independent of sort key |
| #899 | Google sign in can no longer use Google Plus |
| #905 | Intermittent socket closed when using LDAP authentication |
| #907 | Support account autoconnect for OAuth2 |
| #909 | Update JDBC driver to Oracle 18c |
| #910 | Add support for Spring AOP with AspectJ |
| #914 | Improve performance in dimension navigator by setting certain dimension types to exclude when traversing |
| #917 | For Jackson Kotlin classes support please add "com.fasterxml.jackson.module:jackson-module-kotlin" to the classpath |
| #926 | Remove Jetty send version and powered by |

| Issue# | Description |
|--------|---|
| #936 | LDAP sync should ignore character encoding error on selected attributes |

5.4.3. Bugfixes

| Issue# | Description |
|--------|--|
| #885 | LDAP sync for users with equal CN results in merged account, person dimension and person card |
| #895 | Prometheus database metrics reports type as help and help as type |
| #897 | CVE-2019-3773: Spring Web Services: XML External Entity Injection (XXE) |
| #898 | CVE-2018-1000873: Jackson: Denial of service when parsing a big JSON number as Instant/ZonedDateTime/OffsetDateTime |
| #912 | Remove commons-email from Activiti dependency tree |
| #915 | SAML - Authentication statement is too old to be used |
| #921 | Failures in filter chain should not display stacktrace to end user |
| #924 | Form validation must allow versioning properties |
| #927 | Classic form "Display/add other attributes" is not allowed to update undeclared attributes already present in document |
| #930 | Form session timeout error message is no longer displayed for unauthenticated users |
| #931 | p_form_back_url with url param key without value blocks form save |
| #933 | Related object with null title fails in Java form |
| #937 | CVE-2018-15756: Denial of Service attack Spring MVC static or Resource handlers |
| #938 | Switch user access check does not pass switch to user to procedure |
| #939 | Switch user state is not reflected in access log |

5.5. Release 7.7

5.5.1. New features

| Issue# | Description |
|--------|---|
| #762 | Create supported passthrough-provider for ContentTransformation |
| #782 | Support Java-form in Classic Portlet |
| #807 | Content Query row should support mapping to a bean |
| #869 | Allow specifying XML or BINARY for Solr network communication |

5.5.2. Improvements

| Issue# | Description |
|---------------|---|
| #269 | Support bcrypt password hashing function |
| #777 | List Manifest information for all accessible manifest files |
| #779 | Make it possible to read sys-password from stdin |
| #780 | Add setup commands "testConnection" and "testSysConnection" |
| #783 | Make the iKnowBase Solr plugin a better docker-citizen |
| #809 | Improve error handling on ikb authentication if user/pass is empty |
| #812 | ikb\$console should hide sensitive environment variables |
| #815 | Upgrade to Spring Security SAML 1.0.4 |
| #824 | Exception handling in AbstractQueueListener should log with level WARN or ERROR |
| #833 | Support prometheus metrics for database |
| #834 | Add "Purge expired" button to console for queue based services |
| #837 | Support jvm exit and bean restart/shutdown commands for deployment |
| #845 | Make AttributeMapping understand enums |
| #854 | FreeMarker error handling should use rethrow handler instead of HTML_DEBUG or DEBUG |
| #857 | Upgrade to Spring Boot 1.5.16.RELEASE |
| #860 | Deprecate Nashorn support |
| #861 | Create remove()-method on DocumentAttributes |
| #862 | Make changes to targets invalidate relevant java-caches |
| #878 | Update Solrj client to 7.5 |
| iknowbook#127 | Inline editor should support regular user specified links |

5.5.3. Bugfixes

| Issue# | Description |
|--------|---|
| #786 | Escaped HTML is printed in ikbconsole domains |
| #789 | Search source with dynamic url search param does not URLEncode query param value as UTF-8 |
| #790 | Content Query SqlFunctionBuilder does not work with attribute |
| #792 | Functions console statistics timing is not presented in ms |
| #803 | DimensionQuery problems when specifying root nodes that you have no access to |
| #810 | Error message when creating subsystem |

| Issue# | Description |
|--------|---|
| #818 | solrj 6.6.2 error while working with solr 7.2.1 version |
| #838 | FormProcessor.save() should update documentReference on form bean, before calling @AfterXXX-methods |
| #872 | CVE-2012-0881: Upgrade Xerces to 2.12.0 |
| #873 | CVE-2016-2510: Upgrade bsh to 2.0b6 |
| #875 | CVE-2018-8013: Upgrade batik to 1.10 |

5.6. Release 7.6

5.6.1. New features

| Issue# | Description |
|--------|---|
| #592 | iKnowBase Functions — managed functions execution |
| #665 | Allow java-based layout page in classic |

5.6.2. Improvements

| Issue# | Description |
|--------|--|
| #505 | Upgrade Groovy to 2.4.12 |
| #521 | Support "hasPermission('executionUser', 'CREATE')" |
| #555 | Metadatagenerator should sort subsystems by name |
| #557 | SAML2 Metadata Generator should output full configuration for use in application.properties |
| #558 | Suppress unnecessary WARN log statements from standard log setup |
| #577 | Add org.jsoup:jsoup to default libraries to enable validation like @SafeHtml |
| #578 | Document usage of property source iknowbase-alias.properties |
| #588 | Repository check displays "last updated" in title, but the meaning is not obvious |
| #596 | Add withPrompt()-shortcuts to all objects that have Prompts. |
| #597 | Add withSubsystem()-shortcuts to all objects that have a subsystem reference |
| #598 | Enable multiple predicates in ContentQueryBuilder.where(...) |
| #599 | Create DocumentAttributes.get(...) that returns an Optional<DocumentAttribute> |
| #600 | Remove ChildSession-concept from Tracer |
| #602 | Support a "NoChallenge" authentication entry point for javascript clients |
| #609 | JavaDoc for ContentServicesEngine.createClient should explain that the returned client must be closed |
| #610 | Upgrade Oracle OutsideIn distribution to 8.5.3 |

| Issue# | Description |
|---------------|--|
| #617 | Validation issues in java image form (81) in ikb 7.5 |
| #621 | Changelog number in AD/OID-sync should be defaulted to 0 |
| #625 | ContentQuery: map into java class |
| #626 | SOLR: Value list ID is not populated to SOLR |
| #628 | SOLR: when trying to dequeue a non-existing message (can occur), its not necessary to throw an error |
| #629 | AQ: The combination of l_dequeue_options.deq_condition and sort_list doesn't work |
| #639 | @AttributeMapping should support field as well as method |
| #650 | ContentServicesEngine should be accessible in Activiti scripts |
| #651 | Default login redirect entry point should support redirect query parameter to facilitate preserving a hash parameter |
| #652 | Login redirect at /private/login/ should support absolute redirect target |
| #653 | Content Server should support not sending content-disposition header |
| #655 | Content Server should support setting default content disposition for each mimetype |
| #660 | Remove documentation from /ressurs/iknowbase/doc. Publish to dev.iknowbase.com only. |
| #664 | Add Jackson serialization/deserialization support for Java 8 date/time types |
| #667 | OID_SYNC.GV_SYNC_GUID should be defined in header instead of body. |
| #668 | Database connection pool connectionTimeout should by default be increased from 3 to 10 seconds |
| #669 | Database connection pool minimumIdle should by default be increased from 1 to 10 connections |
| #674 | Spring Boot's JmsAutoConfiguration should be disabled to support multiple JMS Connection Factories |
| #675 | Java SDK Portlet registration failures should fail hard and prevent application startup |
| #678 | Add more options for database profiling |
| #682 | Support request-specific extra logging |
| #684 | Ldap sync should always log errors |
| #697 | Remove documents from solr index when the event doesn't fit anymore |
| #700 | Support versioned documents in WebDAV |
| #705 | Make application.properties.SAMPLE available from documentation |
| #706 | Attribute iKB Resource's external_key should be set to IKB_RESOURCE |
| #707 | Better handling of ikb_global_prefs |

| Issue# | Description |
|-------------------|---|
| #709 | Upgrade to Spring Boot 1.5.9.RELEASE |
| #710 | Remove unprocessed duplicate events from solr queue when a new updated event is generated |
| #713 | Add console page that displays active security configuration |
| #714 | Upgrade to Gradle 4.4 |
| #715 | Provide access to HttpServletResponse.urlEncode() from FreeMarker for Java SDK |
| #717 | Disabled batch services should not be loaded at all |
| #718 | iKnowBase configuration report should display actual global prefs name |
| #765 | ContentQuery RowTransformationClient should support renaming the source file before submit to provider |
| content-studio#13 | Support default folder config and client side folder validation for the image form |
| content-studio#18 | Present edit webdav links for versioned documents |
| content-studio#19 | Configuration option to enable WebDAV actions. |
| iknowbook#115 | Publish documentation per release |
| iknowbook#118 | Documentation should specify that iKnowBase Content Studio is normally deployed as a separate application and not as dependency |
| iknowbook#119 | Document installation requirement to create the configured admin ACL if it does not exist |
| microsite#86 | Publish documentation per release |
| microsite#88 | Document installation requirement to create the configured admin ACL if it does not exist |

5.6.3. Bugfixes

| Issue# | Description |
|--------|--|
| #24 | FreeMarker loadURL cannot be used in target ⇒ inline template |
| #34 | Content query fails on binary files without filename |
| #583 | Reflected XSS vulnerability in iKnowBase Classic |
| #584 | Create subsystem without external key results in an error |
| #586 | SolrSearchClient.getRowSet() returns a non-traversing row set, while it should be traversing |
| #589 | X-IKB-AUTH-HEADER with invalid token ends in redirect loop |

| Issue# | Description |
|-------------------|--|
| #594 | Error: Setting the has_add_permission is invalid. Doesn't use the setting from acl.create_subdoc |
| #612 | Reload tasks on EmailReader will start a disabled EmailReader |
| #616 | Users get a error when trying to replace value in single value attribute (ie ikb image) |
| #618 | Default value is ignored for folder in classic image form (81) in 7.5 |
| #619 | Description of "Return full document object?" is missing in Help-tab on viewer in ikb 7.5 |
| #630 | ORA-14551: cannot perform a DML operation inside a query after upgrade to 7.5 |
| #633 | Template viewers with cache key and onload render does not render (ikb 7.5) |
| #634 | UpgradeAll for tinymce_profiles fails with ORA-01489: result of string concatenation is too long |
| #637 | IKNOWBASE.BAT (windows) does not support plugin loader path |
| #641 | An error has occurred when reading existing sub-variable "contentLink" after upgrade to 7.5 |
| #644 | Error in the documentation regarding Solr setup |
| #662 | Document service storage of HTML-encoded varchar2 document attribute value is decoded before storage. |
| #671 | ikb_instant.publish fails if username exceeds 30 characters |
| #672 | search_engine_name is not updated when documents in solr_changelog is updated |
| #677 | Cache navigation in ikb\$console does not work with elementKeys containing / and back to parent directory |
| #698 | Error page vulnerable to reflective XSS |
| #699 | Documents with text content show both file and content attributes in form after upgrade to 7.x |
| #704 | Stored XSS vulnerability in ikb\$console |
| #711 | CSS error on standard error page |
| #712 | Error saving form defaults when form is configured with a dimension attribute with a subset of data |
| #716 | The loadXML FM Macro fails (doesn't return expected data) occasionally without any trace in the error logs |
| #724 | Documentation points to non existing yui3-grids-min.css |
| #733 | LDAP authentication configuration error responds with illegal statusline if HTTP Basic is used |
| content-studio#15 | An error has occurred when reading existing sub-variable "contentLink" after upgrade to 7.5 |

| Issue# | Description |
|-------------------|---|
| content-studio#16 | Error message in view properties in document archive when document is versioned |
| content-studio#17 | View PDF and View HTML missing since 7.4 |
| content-studio#23 | Search in image archive for image prefix does not work |
| iknowbook#116 | Migration fails with DocumentService\$MissingInputException: ORA-20108: Unable to get the subsystem type. No input is given |
| iknowbook#117 | iKB Resource has no external key. Should be set during database migration. |
| iknowbook#121 | Chapter numbering is broken - should start on 1 |
| iknowbook#122 | Levels in navbar is missing css for levels > 3 |
| iknowbook#124 | Warning in Firefox when toggling editMode |
| microsite#87 | Installation fails if query for YesNo valuelist returns more than one row |
| process-studio#15 | Support english language in UI |

5.7. Release 7.5

5.7.1. New features

| Issue# | Description |
|--------|---|
| #33 | Enable default mapping of jar-file resources to / |
| #116 | Audit logging: Log all changes to a document |
| #515 | Support recovery of deleted documents |
| #528 | Add SolrSearchClient-api for easy streaming of json-content |
| #537 | Manage subsystems through the ServiceAPI |
| cs#7 | Add trash bin functionality |

5.7.2. Improvements

| Issue# | Description |
|--------|--|
| #22 | Upgrade to Spring Boot 1.5 |
| #27 | Improve management of triggers |
| #312 | Implement fault-tolerance in EMailReader |

| Issue# | Description |
|------------------|---|
| #490 | Patchset: "Build dataset" should not submit edit-tab |
| #499 | Triggers should be stored as files and installed during upgradeAll |
| #507 | Support environment specific iknowbase-alias.properties with configuration overrides |
| #516 | Configurable default acl for images |
| #518 | Upgrade to Gradle 3.4.1 |
| #524 | Replace Spring defaultHandler with dynamic mapping for classic page and target |
| #525 | Support resolution of default welcome file /index.html in static resource directories |
| #529 | Content Studio: Document archive should support dimension url parameter |
| #530 | Suppress confusing warnings with fallback MessageInterpolatorFactory (HV000184) |
| #533 | Upgrade to Spring Boot 1.5.3 |
| #534 | FreeMarker Form Macro API: Improve logic for filtering metadata (POOR performance at NSF) |
| #535 | Turn tinymce-profiles into generic html widgets |
| #536 | Upgrade JDBC driver from ojdbc7 12.1.0.2 to ojdbc8 12.2.0.1 |
| #544 | EmailReader should support configurable setting to only fetch unprocessed emails for IMAP |
| #546 | EmailReader should support marking unreadable messages to avoid reprocessing |
| #550 | EmailReader should keep import/create and update timestamps in import tables |
| #553 | EmailSender should warn on invalid recipient, but otherwise continue with sending to the valid recipients |
| #564 | Update of document.metadata_text for Oracle Text search should be optional for improved performance |
| #566 | Upgrade to Gradle 3.5 |
| content-studio#6 | Automatically select dimension and show documents when the document archive is opened, if dimension URL parameter given |
| process-studio#1 | /ps/definitions should list only latest version by default |
| process-studio#2 | /ps/definitions should be sortable by date (if that exists!) |
| process-studio#3 | /ps/instances "sort by id" should be numeric |
| process-studio#4 | Radio buttons should have clickable labels (e.g /ps/definitions) |
| process-studio#5 | Most lists should be default sorted on date, newest first (e.g. /ps/tasks) |

| Issue# | Description |
|------------------|---|
| process-studio#6 | Tables with actions should have a clickable link on table itself (e.g. /ps/tasks) |
| process-studio#7 | HTML title tag should reflect page, e.g. "tasks" or "instances" |
| process-studio#8 | In process instance list, duration should display in readable format |

5.7.3. Bugfixes

| Issue# | Description |
|-----------------------|---|
| #498 | IKB-3499: Dynamic load of Java-based form doesn't work in IE |
| #508 | An instance with batch-module enabled and viewer-module disabled uses wrong executor / task scheduler |
| #509 | X-IKB-AUTH-TOKEN should be allowed even if user has already been authenticated |
| #510 | Spring Social Live update due to changed OAuth URL by Microsoft |
| #543 | SAML2 entityId should follow URI requirement and URL recommendation |
| #547 | EmailReader only reads 1000 first emails in folder |
| #549 | EmailReader IMAPS can't connect to server |
| #554 | Gradle UploadTask's renameSearchExpression adds an additional CRLF |
| #559 | ikb_service_api.save_document_attribute doesn't make new versions |
| content-studio#9 | XSS vulnerability through specially crafted links |
| process-studio#13 | XSS vulnerability through specially crafted links |
| rest-userrepository#2 | saveUser fails if documentGuid and/or dimensionGuid is set |

5.8. Release 7.4

5.8.1. New features

| Issue# | Description |
|----------|--|
| IKB-3486 | Add support for Spring Data REST using custom repository implementations |
| #4 | Support java-functions in ContentQuery |
| #17 | Create a PortletRunner to run portlets on-demand |
| #18 | Spring Data REST Infrastructure |

5.8.2. Improvements

| Issue# | Description |
|----------|---|
| IKB-3315 | The loadURL FreeMarker macro should handle longer feeds |
| IKB-3429 | Solr Events: If the exception list has many entries, it takes unreasonable long time to display the page /event/solrbatch |
| IKB-3430 | Upgrade from Spring Boot 1.3.8 to 1.4.2 |
| IKB-3431 | Upgrade from Log4j1 to Log4j2 |
| IKB-3433 | Content Query getItem with documentOperation FULL should retrieve external keys |
| IKB-3437 | Attribute IKB\$PARENT_DOCUMENT should be fetched as Object Reference. |
| IKB-3438 | Deprecate IKB\$PARENT_DOCUMENT_REFERENCE - use IKB\$PARENT_DOCUMENT instead |
| IKB-3444 | Support choosing more images for attributte with datatype "Link to images" |
| IKB-3448 | Form generator for java: Callback for beforeInsert should use actual document type |
| IKB-3449 | Form generator for java: Add bean validation NotNull to required attributes |
| IKB-3469 | Classic Form: dimensional attributes with style e.g SELECT without subset - select to show all / none of the dimensions |
| IKB-3470 | Group Admin is slow if the group has a lot of members |
| IKB-3471 | ikb_ctx_admin.create_ctx_prefs: Should be possible to define tablespace name |
| IKB-3474 | Improved error message when creating a user (username is mandatory) |
| IKB-3475 | Login token should be supported as HTTP Header |
| IKB-3480 | EofException caused by connection reset by peer should not be logged on error |
| IKB-3481 | Solr Search Client Provider should be available for Java SDK Portlet |
| IKB-3482 | Reduce log level for token based authentication |
| IKB-3483 | Login token should be supported for all HTTP methods |
| IKB-3485 | Targets: Should be possible to delete parameters without value |
| IKB-3490 | Upgrade from Spring Boot 1.4.2 to 1.4.4 |
| IKB-3492 | mv_log_documents materialized view på enterprise edition bør bruke 11g sin støtte for fast refresh. |
| #2 | Hide application property "bearer_tokens" from console views (ref prometheus configuration) |
| #3 | Allow multiple deploy tokens |
| #9 | Remove old SmartResourceManager infrastructure in favor of spring boot-supplied solution. |
| #10 | Need a way to do "where document_guid = xxx" in ContentQuery |

| Issue# | Description |
|--------|--|
| #13 | ContentServer should produce Last-Modified header, and honor If-Updated-Since CLOSED 1 |
| #15 | Provide access to HttpServletResponse.urlEncode() from FreeMarker |
| #16 | ContentServer should produce "public" cache control for public documents |

5.8.3. Bugfixes

| Issue# | Description |
|----------|--|
| IKB-3428 | Object type returned from content query row should be the same for retrieval by expression and by String |
| IKB-3432 | File attribute in form gives error when choosing many files |
| IKB-3435 | EmailReader should accept file attachments with " in filename. |
| IKB-3436 | EmailReader nullpointer |
| IKB-3439 | Order condition in presstyle: Cannot use attribute in function if already selected as order by attribute |
| IKB-3447 | Form generator for java: Wrong variable name for attribute used in callback |
| IKB-3450 | iKnowBase JavaSDK Portlets used for testing should not be included in distribution |
| IKB-3452 | Installation properties should have higher precedence than defaultProperties |
| IKB-3454 | Inline functions in PL/SQL {} doesn't return any values if the function returns NULL |
| IKB-3455 | Increase l_order in ikb_content_viewer - 3000 is not enough if you have many order conditions |
| IKB-3456 | ikb_portal_api.get_values should be defaulted to return all values with an option to retrieve only the unique values |
| IKB-3457 | Improved performance running upgradeAll |
| IKB-3458 | Poor performance when accessing the list of ACLs |
| IKB-3459 | In FORMS - replace_check and replace_radio cannot replace with <label for=> |
| IKB-3460 | Checkboxes and radio buttons should be named with as before if only one value exists for an attribute |
| IKB-3461 | Forced utf-8 encoding on response traffic without explicit encoding may conflict with static resources with norwegian characters |
| IKB-3462 | Backport support for confirm<form> in forms. Very often used by ajax-submits |
| IKB-3464 | Consider changes of default behavior of SELECT, RADIO and CHECK items in FORMS |
| IKB-3465 | UpgradeAll to 7.0 contains error when restructuring content in document |
| IKB-3466 | Tilgang til dokumentattributter i presentasjonsstil med bruk av ekstern kilde |
| IKB-3467 | /consule/user: Permission overview doesn't group the result correctly |

| Issue# | Description |
|----------|--|
| IKB-3468 | Combined External datasource doesn't extract attributes for more than one instance of the document |
| IKB-3472 | Language - Not all of the prompts were displayed in console/advanced/language/metadata |
| IKB-3473 | Invalid comment in javascript generated by ikb_ce_custom_editor_portlet |
| IKB-3476 | Data from the tables IKB_PORTLET_SEARCH_DIALOG_DET and PK_IKB_PORTLET_ACTION_LIST are not exported |
| IKB-3477 | FreeMarker \${context.commonScripts} should honor use expanded resources from dev mode |
| IKB-3478 | Page component runner should honor use expanded resources from dev mode |
| IKB-3488 | Spring Security infrastructure should send application events |
| IKB-3491 | /ikb\$console/development/database/report_database/parameter må bruke gv\$ og ikke v\$ når det er RAC cluster. |
| IKB-3494 | Non-WebDAV link from Office intercepted by WebDAV filter |
| IKB-3496 | CloudConvert fails if compile jackson-dataformat-xml is present on classpath |
| #1 | ContentQueryRow: getValue(String) and getValue(Expression) should return same value |

5.9. Release 7.3

5.9.1. New features

| Issue# | Description |
|----------|--|
| IKB-3322 | When copying a group - let the user decide if acl membership also should be copied |
| IKB-3356 | Support WebDAV @ResourceController extensions |
| IKB-3372 | Simplify continuous deployment for plugin development |
| IKB-3383 | Support for iKnowBase Classic Portlet implementations using Java SDK |

5.9.2. Improvements

| Issue# | Description |
|----------|---|
| IKB-2794 | Installation properties: Enabled edit of property name in administration gui |
| IKB-3228 | Move Content Studio to an external plugin project |
| IKB-3242 | Increase document.url from 300 to 4000 to allow long urls |
| IKB-3245 | Support running sqlplus as SYS from the iknowbase installation program (quickstart) |
| IKB-3297 | ikb_imageedit: timeout bør være konfigurert |

| Issue# | Description |
|----------|--|
| IKB-3335 | Add support for line shift etc in description field of patchsets |
| IKB-3350 | Add the command "dbscriptAsSys" to the setup program |
| IKB-3355 | Add BitKinex and GoodReader User-Agents to default WebDAV filter |
| IKB-3357 | WebDAV requests should not be sensitive to trailing / |
| IKB-3358 | Avoid updating document.xml_data more than once in schema.sql for 7.0 |
| IKB-3359 | Support optional connection tweaks for Setup connection in case of long running commands |
| IKB-3368 | Service API should not log unauthenticated user as ERROR |
| IKB-3369 | Service API: Support create object with specified GUID |
| IKB-3374 | Content Query: Support regexp_like for String fields |
| IKB-3376 | ContentQuery: Add support for up and down traversal |
| IKB-3381 | Align Document and DocumentModel objects |
| IKB-3385 | Upgrade from Spring Boot 1.3.5 to 1.3.7 |
| IKB-3386 | Upgrade from Jetty 9.3.9.v20160517 to 9.3.11.v20160721 |
| IKB-3387 | Upgrade from Spring Session 1.2.0 to 1.2.2 |
| IKB-3389 | LDAP profiles should support wallets |
| IKB-3390 | Guid of valuelist values should be visible in Metadata manager |
| IKB-3392 | Upgrade from Spring Boot 1.3.7 to 1.3.8 |
| IKB-3396 | Usersync: Be able to configure external_key on DOCUMENT and DIMENSIONS |
| IKB-3397 | IKB\$console → Database → Report → iKnowBase → Time consuming report doesn't report java based queries |
| IKB-3398 | Upgrade from Jetty 9.3.11.v20160721 to 9.3.12.v20160915 |
| IKB-3404 | Patchset: Add link to selected object |
| IKB-3405 | Content Query should contain trace information about the caller |
| IKB-3427 | Enable detailed logging for Batch EmailSender |

5.9.3. Bugfixes

| Issue# | Description |
|----------|--|
| IKB-3239 | Setup: SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder". |
| IKB-3403 | Content Query getItem should return Optional empty if the item has not been selected |
| IKB-3416 | Development mode toolbars, statusbars and components broken since 7.1 |
| IKB-3391 | Edit with WebDAV on create from template does not start automatically in IE |
| IKB-3367 | Error messages in ikb_error_tab when adding target in Development tools |

| Issue# | Description |
|----------|---|
| IKB-3371 | Form with optional format: Selecting format as text will hide the text input field if initially stored without text |
| IKB-3411 | Forms: Should show selected dimensions in select box even if they are not selectable anymore |
| IKB-3349 | HTML-output from iknowbase.sh should not refer to script requiring internet access (e.g log from upgradeAll) |
| IKB-3393 | IKB\$console → Report → iKnowBase → Errors gives errors when viewing aggregated result |
| IKB-3401 | ikb\$console → Parameters: Set default condition when creating iKnowBase parameters |
| IKB-3377 | ikbFile print url even if it does not have file |
| IKB-3409 | iknowbase.request.log is missing from runtime → logging → targets |
| IKB-3326 | Improve performance in LDAP Sync - group mappings should use a POPUP instead of a list |
| IKB-2183 | LDAP-sync from AD to IKB. Changes in OID_SYNC.retrieve_user_information |
| IKB-3408 | Not possible to clear cache of ikbBatch PageEngine |
| IKB-3347 | ORA-12899: value too large for column "IKB"."T72_CALL_IKB_POPUP_ERROR"."ERRORMSG" (actual: 306, maximum: 300) |
| IKB-3354 | Performance - v_acl_readable and v_acl_protected are slow when #members are high |
| IKB-3384 | Precheck of patchset does not report on missing component |
| IKB-3364 | Presentation style: Link with text source "from the label" where label is blank print value of "link to"-attribute |
| IKB-3365 | Presentation style: When using "revert from template" styleset-setting is lost |
| IKB-3394 | Remote precheck commits data to 'base'-tables after precheck |
| IKB-3353 | Remove the column ATTRIBUTE.UPDATEABLE - Its no longer in use |
| IKB-3370 | Service API get_document logs UNKNOWN USER in error_tab if document cannot be found |
| IKB-3360 | Should be able to search for free text input in forms customization |
| IKB-3414 | Subsystem filter in user administration (user, group, acl) does not support and should not display subsystem filter |
| IKB-3400 | Support multiple values as input to viewer attributes like Related documents, document ID and parent ID |
| IKB-3419 | Support use of text elements defined on the template for a template viewer |
| IKB-3395 | Tinyprofiles in forms should honor attribute definition order and individual width |
| IKB-3361 | war plugin with starter-singleproject cannot resolve BootEmbeddedApplication |
| IKB-3375 | WebLogic authentication plugin broken on WebLogic 12.2.1 |

| Issue# | Description |
|----------|--|
| IKB-3420 | Support use of text elements defined on the template for a presentation style |
| IKB-3422 | CICO icon missing if checked out by other user |
| IKB-3423 | Saving a form with a XML-attribute without content will result in ORA-31011 |
| IKB-3424 | Java Form Macro: Attribute label does not support proper language resolution |
| IKB-3425 | Import: ikb_preference_store.value is not updated if the value has been remapped |
| IKB-3426 | Java Form Macro: Reference labels should support proper language resolution |

5.10. Release 7.2

5.10.1. New features

| Issue# | Description |
|----------|--|
| IKB-3224 | Upgrade Activiti to version 5.19 |
| IKB-2903 | Support for persisted and replicated sessions in the quickstart webServer |
| IKB-3184 | IKB-824 JavaScript API: Delete document |
| IKB-3319 | Document Service API: Support IKB\$PARENT_DOCUMENT_ID in service_api (save document attribute) |
| IKB-3321 | Allow sort on CLOB-columns |
| IKB-3334 | Stored PL/SQL Function in Presentation style should allow return types like NUMBER and DATE |

5.10.2. Improvements

| Issue# | Description |
|----------|--|
| IKB-725 | Utilize result caching in database 11g |
| IKB-1053 | Homeplace: Add mechanism to find homeplace usage for a document |
| IKB-1436 | Support on-the-fly compression of text content in iKnowBase Web Server to reduce transport |
| IKB-1507 | The old javascript /ressurs/evita/iKBDesktop/javascript/iknowbase-common-full.js should be removed |
| IKB-2261 | Implement on-demand generation of image variants |
| IKB-2416 | WebDAV lock infrastructure must be persisted to database |
| IKB-2847 | Support case sensitiv search in ikbStudio |
| IKB-3023 | iKnowBase Web Server request log should use NCSA Combined Log Format |
| IKB-3038 | Add text to first <option> tag in value-list generated dropdown |
| IKB-3112 | Run iKnowBase on top of Spring Boot |

| Issue# | Description |
|---------------|--|
| IKB-3186 | Reload component after delete document rather than refresh entire page |
| IKB-3187 | Content Studio: Reuse deleteDocument function from ContentStudio |
| IKB-3197 | WebDAV lock infrastructure must be extensible from Java |
| IKB-3198 | WebDAV lock timeout should be configurable |
| IKB-3205 | Automatically fix normalized GUID-values in DOCUMENT and DOCUMENT_ATTRIBUTE |
| IKB-3206 | iKnowBase Console: Automatically trim search string |
| IKB-3209 | Cluster support for WebDAV |
| IKB-3215 | Refactoring of iknowbase-common-full.js |
| IKB-3216 | Error when replacing :PARENT_ID in form template code |
| IKB-3218 | No need to print the error message when a target is without a page reference |
| IKB-3223 | SAML authentication failure due to configuration error should log cause to error log |
| IKB-3225 | Create FreeMarker-variable "viewer.logic.hasContainer" to show if a contentViewer has ajax-ready container |
| IKB-3229 | Document Service API: Declare explicit SerialVersionUIDs in Serializable classes |
| IKB-3252 | Remove default value for valid from/valid to |
| IKB-3253 | Display NLS_DATABASE_PARAMETERS and NLS_INSTANCE_PARAMETERS in database report |
| IKB-3254 | Should show "name" of attributes in picklists in ikbStudio instead of label. |
| IKB-3259 | Convert LOBS to SECUREFILE |
| IKB-3266 | ImageEditor should support CMYK-encoded jpeg images |
| IKB-3267 | ImageEditor should support PSD images |
| IKB-3270 | Remove embedded /index.html |
| IKB-3272 | LOG_DOCUMENTS: Support both aggregated and simple log (one row per user per document, with or without counter) |
| IKB-3274 | Content Server should support option for specifying configuration file for file converter |
| IKB-3275 | File Converter should support custom configuration file |
| IKB-3277 | Performance improvements in Content Viewer |
| IKB-3280 | ContentQuery: Implement contentLinkBuilder for a ContentQueryRow |
| IKB-3281 | Support UTF-7 charset |
| IKB-3285 | Plugin samples: Move outside com.iknowbase package and demonstrate component scan |
| IKB-3286 | Plugin setup: Add sample project for both single and multiproject builds |

| Issue# | Description |
|----------|--|
| IKB-3288 | Support fingerprinted URLs for static resources for improved browser caching |
| IKB-3291 | During an upgrade the iikb_format.name should not be updated if it already exists |
| IKB-3298 | URL generated by the viewer should always be cacheable |
| IKB-3299 | Remove support for Oracle Secure Enterprise Search |
| IKB-3302 | Authentication providers should support restriction configuration |
| IKB-3304 | Log file should by default be rotated daily |
| IKB-3306 | Change to iKnowBase specific session cookie name by default |
| IKB-3310 | Process Studio: Support composite form keys |
| IKB-3313 | Document Service API: Should not be dependent on an initialized db connection |
| IKB-3314 | Delay iKnowBase Web Server shutdown handler until just before port bind to minimize downtime |
| IKB-3320 | Stopped by DB lock when importing patchset |
| IKB-3330 | UpgradeAll should start a gather_schema_stat-job |
| IKB-3345 | Improved transaction handling |

5.10.3. Bugfixes

| Issue# | Description |
|----------|---|
| IKB-2272 | Picklist: Preselected values are removed after a new document is created |
| IKB-2329 | Popups from edit-link does not open in center of screen anymore |
| IKB-3179 | Last change date of attributes should not be updated when saving solr configuration |
| IKB-3200 | WebDAV form based login static resources should not be protected |
| IKB-3201 | WebDAV default User Agent expression should include "ms-office" and "MSOffice" |
| IKB-3203 | Improve performance on queries against ikb_error_tab |
| IKB-3207 | Document Service API: All operations should have a default value |
| IKB-3208 | auth-ie7andie8.css refers to missing resource ../icon/saml16.png |
| IKB-3210 | Desupport of Oracle Database 10G |
| IKB-3211 | Document Service API: Parent document attribute instantiated with the parent document's external key is not saved by saveDocumentAttributes |
| IKB-3217 | Poor performance in ikb\$console when searching for a target |
| IKB-3221 | Cannot delete viewer |
| IKB-3222 | Norwegian characters in solrconfig.xml → Solr fails to start |
| IKB-3226 | The "iKnowBase Data" transport set is configured with wrong actions |

| Issue# | Description |
|----------|---|
| IKB-3230 | Documentation: Update the Content Studio chapter in the Development Guide (not updated after CS was implemented as a plugin) |
| IKB-3231 | Remove JS-function call_ikb_popup |
| IKB-3233 | Process Studio: Render variable updates of type "serializable" as XML for a process instance |
| IKB-3235 | Form: Numeric or value error in ikb_ce_custom_editor_portlet, line 4523 |
| IKB-3236 | Ikoner i meny mangler (src-url "http" i stedet for "https") |
| IKB-3237 | Create new documents with a parent you don't have read access to fails |
| IKB-3240 | The printout of context variables exceeds its limits |
| IKB-3241 | Document toString fails if documentIdentity is null |
| IKB-3243 | DataHandler / DataSource returned from the Document Service API should have filename in getName(), instead of blank |
| IKB-3244 | Content Studio: In the image picklist, the add image button and edit image action are not available for users without Content Studio access |
| IKB-3246 | Form: User without creatable privilege to a form doesn't have access to edit a document in that form |
| IKB-3248 | ikb\$console: Save form defaults fails if the attribute acl doesn't have a default value |
| IKB-3250 | Form: Save fails if a form contains a related object which the user doesn't have access to |
| IKB-3251 | Last updated date is set on the form I'm copying |
| IKB-3263 | ikb_portlet_prefs.create_cacheable_ulr is ignored when returning a BLOB-attribute |
| IKB-3264 | Trouble with uploading jpeg images with color profile CMYK |
| IKB-3269 | Valuelist value description no longer exposed in ikb\$console > metadata management > valuelist |
| IKB-3273 | IKB\$console → Runtime → Monitor doesn't show detailed timed statistics for components within a page |
| IKB-3276 | Forms: Wrong CLOB-attribute is updated from html-based form when order of attributes in attribute-tab does not match in order in html |
| IKB-3278 | ContentServer accept= does not change filename used by browser |
| IKB-3282 | Order-BY condition on TITLE disappear during upgrade to 6.7 (or higher) |
| IKB-3289 | ikb\$console: ikbStudio.css contains reference to knett.evita.no for the iKnowBase logo |
| IKB-3296 | Export does not update setting on traverse-tab in search source |
| IKB-3303 | LDAP authentication should only retrieve required attributes |
| IKB-3305 | Cannot log in with form authentication if domain is configured without public user |
| IKB-3308 | /ikb\$console/runtime/monitor/pageRunner is broken |

| Issue# | Description |
|----------|--|
| IKB-3311 | Process Studio: View process instance diagram causes java.lang.NoClassDefFoundError: Could not initialize class sun.awt.X11GraphicsEnvironment |
| IKB-3318 | Import of iKnowBase transportset iKnowBase_Data.dmp should not create domain |
| IKB-3324 | Document Service API: No validation in Service_api on LANGAGE_REFERENCE |
| IKB-3325 | Dimensions - It should not be possible to move a dimension to its own child dimension |
| IKB-3327 | Last changed date on page is not updated when editing a template in a template viewer |
| IKB-3329 | Document Service API: ikb_service_api.save_document and save_document_attributes should not require a logged on user |
| IKB-3331 | <IKB:SAVE_FUNCTION> missing in documentation |
| IKB-3332 | Search source - Select dynamic attributes gives ORA-06502 |
| IKB-3333 | Support pagination in User Administration → Users → Acl Membership |
| IKB-3342 | Inline templates didn't handle template labels (issue if the template was detached) |

5.11. Release 7.1

5.11.1. New features

| Issue# | Description |
|----------|--|
| IKB-2222 | Support [@include] of FreeMarker templates |
| IKB-2649 | Order values in valuelist |

5.11.2. Improvements

| Issue# | Description |
|----------|--|
| IKB-440 | [HD-22532] Additional configuration options for delete dialog |
| IKB-544 | ikbStudio - Error handling - comments |
| IKB-896 | Change default option when deleting subdocuments |
| IKB-1027 | ikbStudio - Batchjob - copy |
| IKB-1280 | Support custom javascript validation function in search source |
| IKB-1291 | Support callback in delete dialog |
| IKB-1619 | Add search-feature to standard page for expired documents (/cs/tools/expired) |
| IKB-2168 | Image picklist: Owner of an image should be able to edit it from the picklist, even when the image doesn't have an acl |
| IKB-2198 | Use of BETWEEN where parameter is greater and smaller than a value |

| Issue# | Description |
|----------|---|
| IKB-2573 | Search sources and Forms: when dimension attribute is style "select" all dimensions should be selectable by default |
| IKB-2578 | Make "delete"-function use Notification to confirm, rather than modal popup |
| IKB-2626 | New default for edit and delete icons in templates |
| IKB-2757 | Make save function available as tag in html insert/update |
| IKB-2779 | Security: Support CSS override configuration for login form |
| IKB-2795 | Installation properties: Trim tab from input |
| IKB-2853 | Remove xnet application and metadata from distribution |
| IKB-2881 | Content Studio: Add "show as html" and "show as txt" |
| IKB-2939 | ikbStudio: Schedules - Run Once |
| IKB-3000 | Change include directives in solrconfig.xml to support SOLR_HOME outside Solr distribution |
| IKB-3026 | Trim blank characters in quickstart-property files |
| IKB-3074 | Support sorting of value lists in forms |
| IKB-3091 | Implement responsive design for the logon page |
| IKB-3094 | Make jQuery-version user selectable |
| IKB-3096 | Upgrade to Spring Security 4 |
| IKB-3109 | Search code labels should be editable |
| IKB-3110 | Replace the multiselect with a popup in Export → Excluded subsystems |
| IKB-3117 | Performance issue with /cs/statistics |
| IKB-3122 | Content Studio: Do not exclude/include documents based on document types on the /cs/publish and /cs/tools/expires pages |
| IKB-3123 | Log error message if Java Cryptography Extension (JCE) is not installed when loading dependant modules |
| IKB-3124 | Content Studio: The image form doesn't save the form guid |
| IKB-3130 | Image variants should have subsystem |
| IKB-3131 | Need of a SQL_HINT for the outer part of a query (viewer/search) |
| IKB-3135 | FreeMarker ParametersModel should implement ScalarModel (String), for simple debug output |
| IKB-3141 | Disable homeplace |
| IKB-3148 | Should be able to perform remote precheck of patchset between errata-versions |
| IKB-3156 | Form Macro API: Options in selectlists should have tooltips |
| IKB-3157 | Convert shared templates used by a single component to inline |
| IKB-3160 | Content Studio: Use relative references to static resources in contentstudio.css |
| IKB-3161 | Support for multiple SAML2 service providers on same instance |

| Issue# | Description |
|----------|--|
| IKB-3162 | Process Studio: Improvements implemented at SKOP |
| IKB-3163 | Fix reported issues from healthcheck (TOAD) |
| IKB-3164 | From ikbConsole, make it possible to search for a template guid used within a page |
| IKB-3166 | Popups: Search and select using keyboard only |
| IKB-3175 | IKB Service API: Add child operation to the delete document function |
| IKB-3176 | A SearchViewer should not render an error message when no search source is specified |
| IKB-3177 | OID_SYNC: Paging filter & character set conversion feilmelding |
| IKB-3181 | Remove support for security configuration "autoform" |
| IKB-3189 | Administration console should be reachable on WebDAV hostnames |
| IKB-3191 | Upgrade gradle in development toolkit for Java from 2.3 to 2.9 |
| IKB-3192 | Dependency on iknowbase-webapp should not include javax.servlet-api directly |
| IKB-3195 | Service API: Support delete document version |

5.11.3. Bugfixes

| Issue# | Description |
|----------|--|
| IKB-596 | Content Studio: Advanced search dialog - some info are places outside of 'frame' |
| IKB-706 | Picklist/explorer and root dimension |
| IKB-1580 | Forms: Displaying clobs (>4000 chars) causes ORA-06502 in procedure IKB_CE_CUSTOM_EDITOR_PORTLET.REPLACE_DISPLAY |
| IKB-2189 | It is not possible to use a script target as target for text in a search source configuration |
| IKB-2541 | Target: Wrong a-tag on title generated when popup and overwrite homeplace |
| IKB-2558 | Forms: buttons should be disabled on click (not after validation). |
| IKB-2858 | image archive: arbitrary file upload |
| IKB-3064 | Valid valuelist values in filter of search source does not reflect the sort order |
| IKB-3086 | Menu items without URL_TYPE are not possible to maintain |
| IKB-3087 | Milton Security Advisory |
| IKB-3089 | Process Studio does not support deployment to a non default context root for iKnowBase web app |
| IKB-3097 | Set/unset bookmark can create invalid redirect urls |
| IKB-3101 | Filter values on dimension (mappe/DIMENSION_ID) doesn't filter on the input values |
| IKB-3111 | CVE-2015-5211 RFD Attack in Spring Framework |

| Issue# | Description |
|----------|---|
| IKB-3113 | ORA-06502: PL/SQL: numeric or value error: hex to raw conversion error in ikb_show_content |
| IKB-3116 | Unable to select ACLs for Export |
| IKB-3120 | Java-based image form doesn't save form_guid |
| IKB-3121 | Return an error message if editing a document with a form → target → without a page |
| IKB-3126 | Development Studio dimension navigator: save and close does not work properly |
| IKB-3128 | Deadlock detected when indexing document to SOLR |
| IKB-3132 | Security risk when building call_ikb_popup_dynamic |
| IKB-3133 | Error template should be named "error" (lowercase) |
| IKB-3134 | ContentViewer should handle titles of full length |
| IKB-3136 | External datasource: dates does not behave as dates. |
| IKB-3138 | Content Studio: The save button in the image form should be disabled when form is submitted |
| IKB-3139 | Content Studio: Do not show input fields which are extracted from image metadata in insert mode of the image form |
| IKB-3142 | The queue name in dbms_aq.enqueue in ikb-packages should be prefixed with user name |
| IKB-3143 | Events is not executed for subdocuments when deleting the master |
| IKB-3144 | WebDAV should not require hostnames config when relying completely on user agent detection |
| IKB-3146 | ikbStudio: User directory → edit User → The "Copy" button has disappeared. |
| IKB-3147 | Form: Automatic update of HTML template for a form fails if a new attribute is added |
| IKB-3149 | A Save from Form check in the document automatically |
| IKB-3150 | ikbStudio is very slow if we have a lot of data of an instance |
| IKB-3151 | Not possible to read help column if template-editor is wider than default |
| IKB-3153 | Removed functions and procedures |
| IKB-3154 | Events - Delete event is executed before the delete-statement, should be possible to execute it after too |
| IKB-3155 | Content Studio: Don't allow save of news article without title |
| IKB-3159 | Conditional loading of modules with default=true cannot be disabled |
| IKB-3165 | RequestEntryFilter logs metrics as RequestLogFilter |
| IKB-3178 | Avoid using ikb_api in projects |
| IKB-3182 | The JSON renderer doesn't produce valid json, it escapes string using EcmaScript rather than Json string rules |

| Issue# | Description |
|----------|--|
| IKB-3183 | Solr event: Incomplete text on popup when resending items from exception queue. |
| IKB-3188 | ikbUrl returns blank even if document has link |
| IKB-3190 | Social login using Facebook is broken - JsonParseException |
| IKB-3194 | WebLogic with container mode authentication does not redirect after /private/login/ authentication |

5.12. Release 7.0.4

5.12.1. New features

No new features.

5.12.2. Improvements

| Issue# | Description |
|----------|---|
| IKB-3161 | Support for multiple SAML2 service providers on same instance |

5.12.3. Bugfixes

No bugfixes.

5.13. Release 7.0.3

5.13.1. New features

No new features.

5.13.2. Improvements

No improvements.

5.13.3. Bugfixes

| Issue# | Description |
|----------|---|
| IKB-3122 | Content Studio: Do not exclude/include documents based on document types on the /cs/publish and /cs/tools/expires pages |
| IKB-3124 | Content Studio: The image form doesn't save the form guid |
| IKB-3128 | Deadlock detected when indexing document to SOLR |
| IKB-3132 | Security risk when building call_ikb_popup_dynamic |
| IKB-3138 | Content Studio: The save button in the image form should be disabled when form is submitted |

| Issue# | Description |
|----------|---|
| IKB-3142 | The queue name in dbms_aq.enqueue in ikb-packages should be prefixed with user name |
| IKB-3148 | Should be able to perform remote precheck of patchset between errata-versions |
| IKB-3149 | A Save from Form check in the document automatically |

5.14. Release 7.0.2

5.14.1. New features

No new features.

5.14.2. Improvements

No improvements.

5.14.3. Bugfixes

| Issue# | Description |
|----------|--|
| IKB-3097 | Set/unset bookmark can create invalid redirect urls |
| IKB-3111 | CVE-2015-5211 RFD Attack in Spring Framework: Upgrade Spring Framework from 4.2.0 to 4.2.2 |

5.15. Release 7.0.1

5.15.1. New features

No new features.

5.15.2. Improvements

No improvements.

5.15.3. Bugfixes

| Issue# | Description |
|----------|--|
| IKB-3087 | Milton Security Advisory: XML parser |
| IKB-3093 | Menu items without URL_TYPE is not visible in ikb\$console component for menus |

5.16. Release 7.0

5.16.1. New features

| Issue# | Description |
|----------|--|
| IKB-472 | Support for error procedure in ldap user synchronization |
| IKB-2010 | Sync support for OpenDJ |
| IKB-2683 | Java-API for running a DimensionQuery |
| IKB-2689 | Java-API for running a ContentQuery |
| IKB-2856 | Service that generates java-class containing all metadata-definitions in a repository. |
| IKB-2860 | Java-API for generating QuickLinks |
| IKB-2906 | Chained templates in iKnowBase classic |
| IKB-2907 | Support Nashorn (javascript) scripts for templates |
| IKB-2908 | Support form-based authentication with WebDAV |
| IKB-2911 | Support Spring Forms for editing iKnowBase documents |
| IKB-2914 | Create screencast to demonstrate DevelopmentToolkit setup |
| IKB-2959 | Remove support to create new pres.styles of type FORM and TABULAR |
| IKB-2961 | Add support for editing XML-content using iKnowBase Form |
| IKB-2971 | Create SolrServer-objects from java plugin |

5.16.2. Improvements

| Issue# | Description |
|----------|--|
| IKB-857 | Make it possible to refer to forms directly from viewer, not only quicklink (a form is also a quicklink) |
| IKB-2415 | Missing userinfo in WebDav locks list |
| IKB-2737 | Docx4j: Security alert CVE-2012-0213 - poi-scratchpad |
| IKB-2738 | Image variants - handle delete of an existing |
| IKB-2783 | Implement Content Studio as a plugin |
| IKB-2813 | Installation properties: Instance qualifier should default to * |
| IKB-2822 | Document iKnowBase Global Prefs |
| IKB-2832 | Documentation: ikb_mailsender package for sending emails |
| IKB-2833 | Simplify ikb_mailsender API |
| IKB-2851 | Forms: Dato og tid uten Ext kalender på dato attributter |
| IKB-2887 | OID_SYNC should return an error_code when running a single dn with failure |
| IKB-2905 | Link to RSS Feed in ikbStudio is misleading |
| IKB-2917 | Disable atmosphere classpath scanning in Instant for quicker startup |
| IKB-2918 | WebDAV server should be able to co-exist with Viewer on / on the same hostname |

| Issue# | Description |
|---------------|--|
| IKB-2933 | Performance in Forms with large select lists |
| IKB-2936 | Func_Save_Document in Form should validate session and timestamp before other tests |
| IKB-2937 | Security: LDAP authentication option userDnPatterns should be converted to userSearchBases |
| IKB-2945 | Remove iKnowBase add-in for Microsoft Office |
| IKB-2957 | Instant: Upgrade atmosphere to runtime 2.3.4 with javascript 2.2.12 |
| IKB-2958 | Service API: Populate object reference label when a metadata object is retrieved using the service api |
| IKB-2964 | User CloudSolrServer for searching in SolrCloud |
| IKB-2970 | Allow more characters in External Datasources (tables and where-condition). |
| IKB-2973 | Remove Oracle BPEL-specific components |
| IKB-2985 | WebDAV browser integration change from NPAPI plugin to protocol extension |
| IKB-3002 | Instant - Add blockers to default broadcasters |
| IKB-3006 | IKB_SERVICE_API: IKB\$FILE - all files should be saved in binary_indexed |
| IKB-3008 | Service API: Expose objectGuid for document attribute value in Java- and WS-API |
| IKB-3010 | WebDav script should be exposed for administration in /ikb\$console/development/advanced/mimetypes |
| IKB-3013 | Query conditions in Viewer : Allow search for NULL / NOT NULL for document fields |
| IKB-3014 | Add SVG images to list of registered mime types |
| IKB-3015 | Change SOLR.xml files to run 5.x of SOLR |
| IKB-3016 | ikb_common_objects.get_prompt should return something else then Undefined if a label exist in another language |
| IKB-3017 | Upgrade Solrj client library to v5.x |
| IKB-3021 | Batch Email Sender should be default for sending emails on new installations |
| IKB-3022 | Batch Image Editor should be default for image conversions on new installations |
| IKB-3024 | Removed functions and procedures in 7.0 |
| IKB-3027 | Security: Social module should be enabled if SAML module is enabled |
| IKB-3032 | In the ServiceAPI, create shortcuts for settings references on the Document object |
| IKB-3033 | Display a link to the selected image for image attributes (in forms) |
| IKB-3044 | Search dimension triggered by ENTER in ikb\$console, image- and document archive |
| IKB-3051 | Support Microsoft Edge (Windows 10) browser |
| IKB-3059 | IKB_ERROR_TAB : Log page_component_guid is available |

| Issue# | Description |
|----------|---|
| IKB-3067 | FreeMarker API: Extend HTML-escaping to fully support all HTML4-entities |
| IKB-3069 | Lightweight Oracle Text Index |
| IKB-3071 | Documentation: WebLogic: Http basic auth does not work with iKnowBase in Spring Security non-container mode |
| IKB-3076 | org.eclipse.jetty.io.EOFException should not be logged as ERROR |
| IKB-3084 | Use Oracle Text index on Title |
| IKB-3085 | Navigate to parent and child dimensions from the dimension edit panel without reloading the dimension tree |

5.16.3. Bugfixes

| Issue# | Description |
|----------|---|
| IKB-2192 | Fields in service-api documentation is not sorted |
| IKB-2741 | Test Case ID IKB-1746 :: Version : 1 /SYSTEST/Interaction/Target/ListenerUrl - Unexpected URL format |
| IKB-2774 | Documentation: Documentation of types is missing in the iKnowBase PL/SQL API documentation |
| IKB-2793 | Wrong link on external datasource parameters in viewer |
| IKB-2835 | Security: Activation token available for social connection even if activation configuration is disabled |
| IKB-2840 | Edit with webdav links missing after upgrade from 6.5 to 6.6 |
| IKB-2888 | TaskWizard fails on "cancel" |
| IKB-2924 | Fix "reference" values returned for reference objects from content viewer |
| IKB-2926 | Documentation for WebDav in dev guide contains removed functionality |
| IKB-2935 | Implement automatic cache-refresh on save from Development Studio |
| IKB-2938 | WebDAV: LOCK on existing locked resource held by different user may result in 409 Conflict |
| IKB-2942 | Form based login with rememberMe does not honor configuration option rememberMeTokenValiditySeconds |
| IKB-2943 | WebDAV lock refresh locks with username=token instead of username. |
| IKB-2946 | Microsoft Account/Live authentication broken |
| IKB-2947 | The acl popup selector is not visible in forms |
| IKB-2952 | Instant: Blocks chrome browser for 5 minutes during navigation |
| IKB-2953 | DocumentAttribute and DocumentAttributeValue constructors must handle null-values |
| IKB-2955 | IKB_GLOBAL_PREFS overwritten during upgrade from 6.6 to 6.7 |

| Issue# | Description |
|----------|--|
| IKB-2956 | Presentation style: Link elements and "Text Source" doesn't work as before |
| IKB-2960 | When editing attributes of type F, datatype is cleared from ATTRIBUTE.DATATYPE |
| IKB-2963 | Sortering på lagret funksjon i presentasjonsmal |
| IKB-2965 | WebDAV logs NotAuthorizedException when authenticated and resource was not found |
| IKB-2967 | Presentation style: Unable to add external attributes as order columns if the attribute is used as a select column |
| IKB-2968 | Single instance LDAP-sync on a group can remove members |
| IKB-2969 | Upgrade spring-social-facebook to v2.0.0 |
| IKB-2974 | ikbStudio - User list - showing <current user> in created by/last changed by when db field actually is null |
| IKB-2977 | ikb_ce_custom_editor_portlet.rebuild_runtime_params - numeric or value error: character string buffer too small |
| IKB-2978 | Content Studio: Picklist doesn't reset dimension start point upon reopen |
| IKB-2979 | Export: Precheck against a remote schema doesn't work |
| IKB-2982 | IKB_AUTH_TOKEN.TOKEN_TYPE should be 10 byte long |
| IKB-2983 | Redirect after activation link does not honor redirect url param |
| IKB-2986 | Quickstart JAVA_OPTIONS=-Dlog4j.properties=log4j-trace.properties is not honored |
| IKB-2987 | SAML authentication button has prefix "Log in using ". Should be removed. |
| IKB-2988 | Order by clause on a database function return errors |
| IKB-2989 | NullPointerException in Process Studio if group is member of ACL PS_PAGE_ACCESS |
| IKB-2990 | Save from "search sources → style" in ikbConsole return errors |
| IKB-2991 | Forms: Validation of mandatory text content fails with Javascript error |
| IKB-2992 | Unable to copy or edit document type in 6.7 |
| IKB-2994 | Image Scaling event did not create missing image variants for images |
| IKB-2995 | Instant - Duplicate messages received and private messages broadcasted to all |
| IKB-3004 | Precheck function in Export causes deadlocks when retrieving valid database links |
| IKB-3005 | Import of data from IKB_USER and DOCUMENT can result in FK-error |
| IKB-3007 | Cannot use target type script as target after insert in form |
| IKB-3009 | Document.Content_type and ikb_format.content_type should be removed |
| IKB-3019 | Metadata Management > Dimension: Dimension search field loses focus when search is performed |
| IKB-3020 | iknowbase.request.log is missing info about user |
| IKB-3028 | Security: CVE-2014-0107 regarding SAML module and xalan library |
| IKB-3029 | Instant user may sometimes fail to leave topic |

| Issue# | Description |
|----------|---|
| IKB-3036 | Last changed date should be updated when disabling/enabling component on a page |
| IKB-3037 | SolrClient.getRowSet() fails with NullPointerException when first document in SolrResponse is a non-iknowbase document |
| IKB-3046 | IKB_CONTENT_VIEWER - l_edit_onclick sprekker på lengde |
| IKB-3048 | Get_document_ident doesn't throw error if document_id or document_guid is invalid |
| IKB-3056 | ORA-00600 errors might occur when compiling PL/SQL with native compiler |
| IKB-3058 | Cannot edit personal acl from form |
| IKB-3061 | TinyMCE 4 plugin: Insert from picklists gives a javascript error in IE |
| IKB-3068 | Security issue in HTML portlets |
| IKB-3078 | When the parent of a dimension is changed, the dmension tree is not updated correctly |
| IKB-3079 | ORA-32036: unsupported case for inlining of query name in WITH clause occurs in content viewer |
| IKB-3080 | Copying forms must not copy created_date and created_by |
| IKB-3082 | FreeMarker Model: ?has_content should return false for a property which doesn't have a value (ie non-existent document attribute) |
| IKB-3083 | Search source traversal with connect by clause and tabular presentation style fails |

5.17. Release 6.7

| Issue# | Description |
|----------|---|
| IKB-238 | ACLAdmin - change of owner_id |
| IKB-547 | API: The param child operation is missing from ws and java api for save valuelist |
| IKB-1632 | Use of labels should be consistent througout Content Studio |
| IKB-1821 | ServiceAPI.SaveAttribute does not honor the use of externalkey in valuelist reference |
| IKB-1916 | Image Archive: It should be possible to ctrl+click to select multiple objects. |
| IKB-2295 | Patch set: should be set using regular save-button in component |
| IKB-2342 | Enable keyboard navigation in Ext based picklists in ikbStudio |
| IKB-2430 | Dev toolkit: Add iKnowBase doc and source for use in IDE |
| IKB-2464 | Need default_language concept to avoid hardcoded (and incorrect!) language |
| IKB-2505 | Instant: SecureTokenEngine\$TokenExpiredException: Token time-to-live has expired |
| IKB-2509 | Instant: onError callback in js api is not called when the server throws an error |
| IKB-2585 | Instant: Explicit unsubscribe may result in a hanging close-call from browser |

| Issue# | Description |
|----------|--|
| IKB-2600 | Webdav: Support for Chrome on Mac |
| IKB-2630 | Content Studio: Removed valid filter values for the information type search criterion |
| IKB-2640 | If the thumbnail variant is not configured for use in editors, the thumbnail doesn't show in step 2 of the image picklist wizard |
| IKB-2708 | Create single set of custom database error codes, for easier use on client |
| IKB-2711 | Merge all applications to a single web-app, with configuration options to enable/disable |
| IKB-2715 | Examine and possibly remove external flag |
| IKB-2740 | Content Studio: Update new image size in the lower right corner upon crop image (image edit) |
| IKB-2742 | Make WebDAV vhost-capable |
| IKB-2744 | Close dimension popup without prompt (when opened from Activiti Form in IE) |
| IKB-2745 | Authentication form: remember me out of place if no social modules are available |
| IKB-2746 | Sort in picklist (related objects) removes documents |
| IKB-2747 | ikbStudio: Attribute labels used in popups not html encoded |
| IKB-2748 | Content Studio: Image variant labels not encoded in image picklist step 2 (editor) |
| IKB-2749 | "Service API: Save operation ""REPLACE"" is not exposed in saveOperationEnumeration" |
| IKB-2750 | Add info on servlet and filter registrations to ikb\$console/java/webapp. |
| IKB-2751 | configureUser.sql should not create ikb_global_prefs, since it runs as sys |
| IKB-2755 | Service API: save_valuelist should throw an exception if a new value's external key violates the unique constraint |
| IKB-2756 | Service API: If a valuelist's subsystem is referenced by external key, it is not saved by save_valuelist |
| IKB-2758 | IKB_SOLR.validate_event_changelog return error if removing from changelog |
| IKB-2759 | Image/link references not logged in Document_usage |
| IKB-2761 | Increase size of instance qualifier in installation properties |
| IKB-2763 | Document all things related to single webapp-concept |
| IKB-2764 | "Add outside-in ""XML export"" support to iknowbase-fileconverter" |
| IKB-2765 | Spring Security: Support for ADFS single sign on (SAML) |
| IKB-2767 | Clean up the way spring beans are instantiated |
| IKB-2768 | EXPORT: Details data is exported even if the master should be excluded by subsystem constraints |
| IKB-2769 | EXPORT: It should be possible to export documents referred in HTML (set by tinyMCE) |

| Issue# | Description |
|----------|--|
| IKB-2770 | Installation property priority is broken |
| IKB-2771 | EXPORT/IMPORT: Need for a more fine grained control when importing data |
| IKB-2772 | Upgrade WebDAV Milton library from 2.5.1.8 to 2.6.3.2 |
| IKB-2773 | Upgrade Instant atmosphere core from 2.1.4 to 2.2.3 and js from 2.1.6 to 2.2.5 |
| IKB-2776 | Instant: ikb\$console - Add broadcaster cache statistics to topic details report |
| IKB-2782 | WebDAV: Cannot call getOutputStream() after getWriter() [WebLogic] |
| IKB-2784 | Migrate ikbStudio away from wicket, for easier maintainability |
| IKB-2785 | "Change priority of properties from installation_properties table to be ""last"" rather than ""first""" |
| IKB-2786 | Dimensions not available for tagging are available |
| IKB-2787 | Trenger samme user i Java og PL/SQL |
| IKB-2789 | Upgrade activiti to version 5.16.4 |
| IKB-2790 | Add Document.setContent-methods that do not require a DataHandler |
| IKB-2792 | Security: Support for Microsoft account / Windows Live social login |
| IKB-2796 | Quickstart: Support specifying SSL certificate alias |
| IKB-2798 | Minify the Ext JS 4 which is distributed with iKnowBase |
| IKB-2800 | Security: Simplify security configuration through rule based authentication router |
| IKB-2801 | Incorrect sort of add attributes in search form |
| IKB-2802 | Logging: Add trace logging option for http request and response headers |
| IKB-2803 | Logging: Request log filter should also include security area |
| IKB-2804 | Move /ikbBatch administration console to ikb\$console |
| IKB-2805 | Security: Add support for a HTTP Header forced authentication mechanism directive |
| IKB-2806 | Numeric fields in Forms should support negative numbers |
| IKB-2807 | "Remove field ""Length"" from attribute" |
| IKB-2809 | Restructure iKnowBase administration console |
| IKB-2810 | Security: Manual login at /ikb\$login is broken |
| IKB-2811 | Improve presentation of unhandled exceptions |
| IKB-2812 | SmartResourceManager should include all files referenced by Resources-model |
| IKB-2814 | Security: Internal errors during security filters should not display full stacktrace to client |
| IKB-2816 | Security: LDAP UsernamePassword authentication provider configuration index requirement for userDnPattern was not documented |
| IKB-2817 | Security: LDAP authentication broken with NullPointerException at UserContextFactory.java:79 |

| Issue# | Description |
|----------|--|
| IKB-2818 | "Endre fra ""menues"" til ""menus"" i Development Studio menus" |
| IKB-2819 | Content Studio: Implement filter for dimension navigator |
| IKB-2821 | Publish artifacts to artifactory maven repository |
| IKB-2823 | Documentation: ImageEditor batch service |
| IKB-2824 | Documentation: PageEngine batch service |
| IKB-2825 | Documentation: Solr Search Server in Installation Guide |
| IKB-2826 | Documentation: EmailSender batch service |
| IKB-2827 | Using quickstart, enable loading jar files into the web application without rebuilding war |
| IKB-2828 | Development mode: The toolbar should not be placed on top of (ie hide) other elements |
| IKB-2829 | Security: Social signup URL configuration is not honored |
| IKB-2834 | ikb_content_validator.validate_and_log return errors |
| IKB-2836 | Add the condition ISNULL/ISNOTNULL to the Parent-attribute |
| IKB-2839 | Security: LDAP authentication with multiple user bases fails if not found in first userBase |
| IKB-2840 | Edit with WebDAV links missing after upgrade from 6.5 to 6.6 |
| IKB-2841 | Change RequestModel File-methods to expose servlet-api mechanism instead of spring-mechanism |
| IKB-2843 | FreeMarker should expose title of linked documents (document_link, picture_link) |
| IKB-2845 | Simplify iKnowBase plugin build logic |
| IKB-2846 | Should also search on viewer.displayTitle and ikb_format.* when searching in ikbStudio |
| IKB-2849 | QuickLink entity should have externalKey |
| IKB-2852 | Fatax kan ikke inneholde ulisensiert versjon av cloudzoom |
| IKB-2854 | Allow external_key to be maintained from Form |
| IKB-2855 | Change index on ikb_users.user_name to UPPER(user_name) |
| IKB-2861 | Instant: Upgrade atmosphere to runtime 2.2.4 with javascript 2.2.7 (with patches) |
| IKB-2862 | Consolidate JdbcTemplate creation, and use default fetchSize of 100 |
| IKB-2863 | Service API: getUser should return null for user.documentReference if the user doesn't have a profile card |
| IKB-2864 | Indeksere multivalues på et solr-felt |
| IKB-2865 | Unauthenticated attempt on privileged document service operation should trigger authentication |
| IKB-2866 | Internal error when clicking the 'wrong' save-button on event |

| Issue# | Description |
|----------|--|
| IKB-2867 | Cannot edit documents via WebDAV on mac |
| IKB-2868 | When adding attributes in an event they also appear under patchset |
| IKB-2869 | Login and activation pages: Do not show username and password fields for sites not configured with either ikb auth or ldap |
| IKB-2871 | Certify iKnowBase with WebLogic server 12.1.3 and JDK 8 |
| IKB-2872 | WebDAV: EmptyResultDataAccessException should be handled |
| IKB-2880 | WebDAV: editDocument allow plugin blocked by authentication and redirect |
| IKB-2884 | The content studio file upload function should not process files uploaded by non-authenticated user |
| IKB-2885 | Instant: Atmosphere should not scan for annotated classes during startup |
| IKB-2886 | Instant: Close request on a non existing topic should result in HTTP 404 with error message |
| IKB-2889 | Content Studio: Edit office documents using WebDAV from the subdocument list in the document detail page |
| IKB-2890 | WebDAV: WARN ACLProtocol - requested property 'principal-url', but resource doesnt implement AccessControlledResource |
| IKB-2891 | WebDAV: WARN IKBMiltonUserManager - Creating user |
| IKB-2892 | WebDAV: WARN FtpService - createFileSystemView is a mock implementation |
| IKB-2895 | OID Sync removes preexisting dimension types |
| IKB-2898 | Security: WebServices: Authentication support for WebLogic container mode |
| IKB-2899 | Database: Deactivated installation properties on new install uses deprecated instance qualifier syntax |

5.18. Release 6.6

| Issue# | Description |
|----------|---|
| IKB-2733 | RegionsModel should keep regions in same order as encountered in page components |
| IKB-2725 | Remove solr distribution from iknowbase (instead shipping only iknowbase-solr-plugin) |
| IKB-2723 | Support Traverse from a SOLR Viewer |
| IKB-2722 | LDAP Sync create new personal cards and dimensions if cn is updated |
| IKB-2720 | ORA-01000 Maximum open cursors in SOLR indexing |
| IKB-2717 | Invalid flag set when importing EXP-<user>-A6EF476661D790B3E040000A18003EF8-iKnowBase-ContentStudio-ImageAndDocumentArchive.dmp |
| IKB-2716 | View crop alternatives in Image Archive - edit image - returns no data |

| Issue# | Description |
|---------------|--|
| IKB-2713 | Secure Token should be supported as HTTP header |
| IKB-2710 | Add FreeMarker variable "noRecordsFoundMessage" |
| IKB-2709 | New FreeMarker directive to run plsql-block and return HTP-written content |
| IKB-2706 | Convert tabular and free form presentation styles to template |
| IKB-2705 | Support for social authentication |
| IKB-2704 | Deprecate support for GlassFish 3 and remove support for GlassFish 4 |
| IKB-2703 | Quickstart: java.lang.IllegalStateException: Form too large |
| IKB-2702 | Tooltips generated using ikb_tooltip-package does not encode title |
| IKB-2701 | Under linux, it should be possible to chose java-installation using quickstart property file |
| IKB-2700 | Reuse QueryItems for the lifetime of a QueryRow |
| IKB-2699 | Load permission info into the ot_content_row, for higher fidelity on the java side |
| IKB-2698 | Rewrite ikb_content_viewer and ikb_show_content to load straight into ot_document |
| IKB-2697 | Installation properties: Add comment field |
| IKB-2696 | Upgrade Apache HTTPClient library to 4.3.4 (GA) |
| IKB-2691 | Import doesn't clean up data in IKB_VALUE_SET and TEMPLATE_LABEL |
| IKB-2687 | Picklist based on search source: Generated javascript on radio button has errors |
| IKB-2686 | Components in patchset show as not existing when using search in ikbStudio |
| IKB-2685 | Quickstart: Disable LDAP group search for determining roles |
| IKB-2684 | Obsolete functions in action portlet |
| IKB-2682 | Enable viewer and forms to edit a document in both WebDAV and Office plugin |
| IKB-2681 | Header login: Needs to be able to extract username from string for OSSO support |
| IKB-2680 | Import error when importing data from BROWSER_LANGUAGE |
| IKB-2679 | WebDAV: Bad performance when fetching document using WebDAV |
| IKB-2678 | Brødsmuler fungerer ikke helt vha freemarkerbasert meny |
| IKB-2677 | Database support for Spring Security hasPermission ACL |
| IKB-2675 | ApplicationServerUtils: Improve detection of iKnowBase Quickstart for development |
| IKB-2674 | Removed tables LOG_SESSIONS and LOG_DIMENSIONS |
| IKB-2673 | Pres.style: Attributes should have numbering on all tabs |
| IKB-2672 | Removed the old NOARK-support in iKnowBase |
| IKB-2671 | Removed old portlets not in use |

| Issue# | Description |
|----------|--|
| IKB-2670 | WebService: Authorize using iKnowBase ACL instead of trusted principal from authenticator |
| IKB-2669 | Removed Banner style set (used in Oracle Portal viewers) |
| IKB-2668 | Removed table MENU_DYN_PREFS |
| IKB-2667 | Removed old menu definitions (renderer) |
| IKB-2665 | Removed old object types |
| IKB-2664 | WebDAV FTP debug logging should not expose user credentials |
| IKB-2663 | get_document_attribute mot dimensjonsattributt: Får feil verdi i external_key på returen |
| IKB-2661 | Instant: The requestUserLilst will fail and timeout if the topic is not available. This should instead return immediately with an empty user list. |
| IKB-2660 | Instant: Error log "Message NOT sent due to client error" when topic does not exist should be debug level |
| IKB-2659 | Instant: Logging should not expose raw HTTP headers |
| IKB-2658 | Brukersync-problemer |
| IKB-2656 | Create freemarker-model for "Use expanded resources" |
| IKB-2653 | Spring MVC URI template variables should be available in the iKnowBase WebRequest |
| IKB-2652 | Support for instance qualifier expressions in installation properties |
| IKB-2651 | Standard iKnowBase model objects should be exposed to Spring FreeMarker views |
| IKB-2650 | ikb\$logout should allow redirect to / and absolute URLs |
| IKB-2647 | "resources" template model should contain information about url lifetimes |
| IKB-2646 | Support configuration of how an image variant should be created (operators to the image processing routine) |
| IKB-2645 | Stored functions doesn't support more than 32K output |
| IKB-2643 | ORA-06533: Subscript beyond count |
| IKB-2642 | Avoid displaying detailed error messages to unauthorized users |
| IKB-2641 | Change security framework to Spring Security |
| IKB-2639 | Content Studio: Present image variant labels rather than attribute labels for image variant links |
| IKB-2638 | Order by in ikbStudio Development tools |
| IKB-2637 | Integrate FATAX editor |
| IKB-2636 | Remove Oracle BPEL-specific ProcessStudio components from distribution |
| IKB-2635 | iKnowBase should not ship with image_sizes table, and remove it if present |
| IKB-2634 | Content Studio: Missing checkbox for image variant larger than original image |

| Issue# | Description |
|---------------|--|
| IKB-2633 | Instant: Unauthorized join does not clean up instant connection object |
| IKB-2632 | Improve development error messages when FreeMarker failures occur |
| IKB-2631 | Quickstart: Upgrade Jetty from 9.1.3.v20140225 to jetty-9.1.4.v20140401 |
| IKB-2628 | Content Studio: Enable webDAV editing in document archive |
| IKB-2627 | Content Studio: Should fill entire browser window |
| IKB-2624 | Create a new template - quicklinks |
| IKB-2623 | Ikke mulig å definere en template basert dimensjons viewer |
| IKB-2622 | Forms update - missing html code |
| IKB-2618 | Instant: InstantQueueServer - Message NOT sent due to client error: reason=Topic does not exist |
| IKB-2617 | Custom Editor should close all <input> tags; p_long_text_ids is not closed |
| IKB-2616 | Instant: Upgrade to Atmosphere runtime 2.1.4 w js 2.1.6 |
| IKB-2614 | Image Edit: The zoom in/out and rotate buttons are not enabled on restore after crop |
| IKB-2612 | Support for managed (cloud) databases - Amazon RDS |
| IKB-2605 | Quickstart fungerer ikke på pluggable 12c database |
| IKB-2598 | Keep filter in ikbStudio (development tools) after navigation from one component to another |
| IKB-2595 | "Feed" functionality should move from "Development tools" to "Advanced" |
| IKB-2583 | The data model consistency report should run automatically, as part of build |
| IKB-2582 | Automatically create distribution scripts (extract4distrib.sql) |
| IKB-2574 | Quickstart commands exportTransportSet/importTransportSet should fail when failing |
| IKB-2564 | Increase number of characters allowed in the title attribute |
| IKB-2532 | QuickStart → UpgradeAll: Decide how to deal with activi upgrade errors... |
| IKB-2526 | Support for logout |
| IKB-2522 | Fokusering av input felt i form |
| IKB-2496 | Convert iKnowBase Process Studio to a Java plugin |
| IKB-2475 | Picklists: Not possible to navigate directly to Sort-step of picklist when opened for an attribute which already has a selection |
| IKB-2473 | Dev toolkit requires quickstart authentication, which excludes authentication on various platforms and deployments |
| IKB-2456 | Service API: Enable save document attributes without specifying the datatype |
| IKB-2446 | Use iKnowBase repository authorization for all login modules. |
| IKB-2445 | Support for LDAPv3 authentication and authorization |

| Issue# | Description |
|----------|---|
| IKB-2402 | FreeMarker-modell for "Use expanded resources"-status |
| IKB-1883 | Personal Acl: Go directly to edit pane when an acl already is chosen |
| IKB-1725 | Set "system attributes" through IKB_SERVICE_API |
| IKB-1663 | Javascript action on button i picklist fungerer ikke dersom dokumenter her " i tittel |
| IKB-1662 | Support "Log on as"-feature |
| IKB-1303 | Establish new security framework |

5.19. Release 6.5

| Issue# | Description |
|----------|---|
| IKB-2553 | Connection leak in ikbBatch.PageEngineServer |
| IKB-2555 | Connection leak if database connection initialization fails |
| IKB-2478 | iKnowBase Addin for Microsoft Office is signed by an expired certificate |
| IKB-2531 | Database XML-operations do not work reliably across application servers |
| IKB-2529 | Replace spring-agent with transforming ClassLoader |
| IKB-2525 | Improve quickstart (jetty) tempdir handling |
| IKB-2511 | Instant: Upgrade to Atmosphere runtime 2.1.1 w js 2.1.5 |
| IKB-2546 | Change caching of prompts from caching a single large Map to caching individual String values |
| IKB-2544 | FreeMarker \${context.commonScripts} does not contain scripts and css |
| IKB-2466 | Support spring @Value annotations receiving values from ikb_installation_properties |
| IKB-2467 | Implement proper distribution of locale throughout spring app |
| IKB-2465 | Language lookup return uses lower(), and only once! |
| IKB-2463 | Access content viewer based on preset document list (primary usecase is Solr) |
| IKB-2452 | Add "shutdown" feature to Quicstart WebServer |
| IKB-2447 | Support "Whenever sqlerror exit sql.sqlcode" in Setup sql scripts |
| IKB-2439 | Support TinyMCE 4 |
| IKB-2432 | Support submitting array of CLOB through /pls |
| IKB-2429 | SOLR-example should be moved from ikb-systest to ikb-master |
| IKB-2428 | Build process should automatically export transport sets, and store under ./etc. |
| IKB-2426 | Support arbitrary text-editors in Forms |
| IKB-2482 | Quickstart should support property for setting web session MaxInactiveInterval |
| IKB-2579 | DatabaseAppender (logging) should not raise exceptions when database is unavailable |

| Issue# | Description |
|----------|--|
| IKB-2580 | The Sql-variable provided to groovy scripts by the TemplateRepositoryModel should use initialized connections |
| IKB-2530 | WevDAV-scripts do not work on Mac |
| IKB-2474 | iKnowBase should support sending email from the java layer, instead of (in addition to) the database |
| IKB-2485 | iKnowBase should support doing image manipulation in the java layer, instead of (in addition to) in the database |
| IKB-2148 | iKnowBase should install properly under managed (cloud) databases |
| IKB-2587 | Remove Activiti Explorer from iKnowBase distribution |
| IKB-2343 | Etter bruk av scrollbar i bildearkiv tolkes musebevegelse som multiselect (kun IE) |
| IKB-2539 | ContentServer should produce cache-control "public" or "private" depending on user |
| IKB-2538 | Changed behavior in Content Server : serve_content |
| IKB-2537 | Instant: ikb\$console test page does not work with IE7: JSON object is not defined |
| IKB-2534 | Content Studio: Image and document archives/picklists don't work in IE7 |
| IKB-2533 | Form JS-function Confirm<FORM> is undefined from 6.3 |
| IKB-2527 | Content Studio: The acl field in the image form should be a popup rather than a dropdown |
| IKB-2524 | Add cache instruction to /content/-links generated by the viewer |
| IKB-2521 | Image archive: Implement pres.style db function which generates image variant links for an image |
| IKB-2520 | Content Studio: Images/documents which are dragged and dropped to the archive/picklist should always be tagged with the chosen dimension |
| IKB-2518 | Instant: JS clients will reconnect immediately and forever when server throws error resulting in onClose |
| IKB-2514 | Instant: Websocket-connections trigger onClose callback after a few minutes. This should not happen. |
| IKB-2512 | Instant: onOpen callback is not triggered before the first message is sent using long polling |
| IKB-2516 | Instant: Remove JSON-encoding for IKBResponse.data |
| IKB-2515 | Instant: Support for (pipe) in all fields of messageFormat IKB |
| IKB-2510 | Direct link from ikbStudio → Database admin → Reports → "Show unused components" |
| IKB-2508 | Import of transport set disables constraints without enabling them at the end |
| IKB-2507 | PersonalAcl: Startday of the datepicker should be monday, not sunday |
| IKB-2506 | Invalid definition of Oracle Text section group |

| Issue# | Description |
|----------|---|
| IKB-2502 | Documentation: Document iKnowBase Instant CORS example |
| IKB-2424 | Eksterne kilde attributter er alltid VARCHAR feiler hvis innhold er lengre 3200 tegn |
| IKB-2423 | Some of the popups used in ikbStudio are too narrow |
| IKB-2420 | Support for websocket over HTTPS |
| IKB-2413 | Poor Error Handling: Empty Default Exception Handler |
| IKB-2409 | Savner mulighet for å legge til feltene Reply-To og Return-Path i SENDMAIL-pakka. |
| IKB-2572 | Image edit: Change the order of the fields in the image form |
| IKB-2571 | Image edit: Implement mouseover in toolbar |
| IKB-2569 | Image edit: Automatically shrink an image to fit within the editing window upon resize |
| IKB-2568 | It should be possible to avoid logging to log_documents for certain viewers |
| IKB-2565 | Image edit: Support selection of predefined crop area sizes (image variants) |
| IKB-2570 | Image edit: Implement function to make an image fit within the editing window without actually reducing its size |
| IKB-2561 | Provide a purge-AQ-exception queue procedure with the distribution |
| IKB-2562 | Instant: IE7-9 mode fails unsubscribe when using CORS (Documentation supported browsers) |
| IKB-2560 | Image edit: The user should have a choice to automatically customize the specified crop area if it is larger than the image |
| IKB-2557 | The notifier should always display on top, ensure that it is not hidden behind other elements |
| IKB-2556 | Image edit: The crop area should be set as the user enters height and width |
| IKB-2551 | Default log configuration should include requestId and sessionId for all file-based logs |
| IKB-2552 | Quickstart remote address restrictions in authenticator modules should use real remote ip and ignore x-forwarded-for |
| IKB-2547 | Support for trusted http header based authentication in iKnowbase Quickstart |
| IKB-2549 | Use unique session cookie per application on iKnowbase Quickstart to avoid authentication conflicts |
| IKB-2548 | Use shared authenticators and login services for all applications deployed to iKnowBase Quickstart |
| IKB-2545 | Oracle Text search: create a more flexible parser to define how to use wildcards in search |
| IKB-2396 | Behov for rettighetsstyring på pakkealias |
| IKB-2500 | Quickstart: SAMPLE.properties specifies webIkbRessurs, but engine supports the old name webRessurs |

| Issue# | Description |
|----------|---|
| IKB-2498 | Rework JDBC-management to allow the use of wrapped JDBC-objects |
| IKB-2499 | Quickstart: Legacy configuration option webapps works differently from web.apps |
| IKB-2495 | quickstart dropUserCascade failures should stop further quickstart processing |
| IKB-2494 | SAMPLE.properties is incorrect for User and Group lookup |
| IKB-2492 | Dev toolkit: Support static content in jar-plugin |
| IKB-2490 | The Spring EndpointsReport (/ikb\$console/java/endpoints) should order endpoints by their url pattern, and present clickable links. |
| IKB-2486 | CodeMirror editor starts with wrong mode |
| IKB-2475 | Picklists: Not possible to navigate directly to Sort-step of picklist when opened for an attribute which already has a selection |
| IKB-2472 | Java Plugin Spring bean name should be fully qualified to avoid name collisions |
| IKB-2471 | Viewer attribute of type date and NOW vs TODAY |
| IKB-2469 | iKnowBase.Instant.Atmosphere.publish requires JSON data but should also support object |
| IKB-2462 | Show toolbar for document picklist |
| IKB-2457 | iKnowBase Installation doc not updated with new .zip structure |
| IKB-2458 | Invalid comments in solrconfig.xml |
| IKB-2454 | Upgrade the quickstart Oracle JDBC-driver to version 12.1.0.1 |
| IKB-2455 | Picklists: Selection doesn't work if both image- and document picklists are open at the same time |
| IKB-2453 | Replace usages of spring specific "DisposableBean" in favor of Closeable |
| IKB-2449 | Master-data should originate from version-specific repository (schema) |
| IKB-2448 | exportFile/importFile should need extension (recommend .dmp) |
| IKB-2443 | OWASP Top Ten 2007: Password Management: Null Password |
| IKB-2441 | Provide dbDataPumpJobName property to all sql-scripts |
| IKB-2440 | Ikb Reset knapp i søkekilder fjerner quicklinker |
| IKB-2437 | Upgrade wicket to version 6.12 |
| IKB-2436 | Upgrade activiti to version 5.14 |
| IKB-2434 | Upgrade jetty to version 9.1.3.v20140225 |
| IKB-2438 | Upgrade groovy to version 2.2.1 |
| IKB-2435 | Upgrade ehcache to version 2.8.1 |
| IKB-2433 | Upgrade spring-framework to version 4.0.2.RELEASE |
| IKB-2431 | Dev toolkit: Add library doc and source for use in IDE |
| IKB-2427 | Move "split_text_and_description" functionality into /pls handler |

| Issue# | Description |
|----------|--|
| IKB-2481 | Form: Implement an iKB specific-tag for generation of image variant markup |
| IKB-2480 | Support javasimon-jdbc4 to monitor database connections. |
| IKB-2479 | Support for querying the Instant server |
| IKB-2477 | Support for HTTP Range-headers |
| IKB-2266 | Picklists: Edit label in list view sometimes displays the wrong label |
| IKB-2256 | Picklists: Multiselect in thumbnail-view in image picklist doesn't work after the document picklist has been opened |
| IKB-2319 | Support SSL in the quickstart web server |
| IKB-2313 | Run a Viewer w presentation style with a predefined set of documents |
| IKB-2217 | Feil i form: får ikke valgt ansvarlig |
| IKB-2603 | Instant: WARN DefaultAnnotationProcessor - Unable to detect annotations. Application may fail to deploy. |
| IKB-2606 | ikbBatch and ikbStudio should pass on proper location for ikbViewer to javascripts |
| IKB-2604 | GlassFish: Class invariant violation at org.apache.log4j.LogManager.getLoggerRepository |
| IKB-2611 | Quickstart: Default PermGen space settings for the JVM should allow deployment of all applications |
| IKB-2501 | IKB-2148 Replace use of OWA_UTIL in menu renders |
| IKB-2367 | Change sample database connection from JDBC URL to Oracle Net connection descriptor instead to allow oracle specific properties |
| IKB-2566 | Image Variants: Add support for auto rotate and extend configuration in order to differentiate use of image variants |
| IKB-2567 | Unable to execute DB-functions in presentation style with DML-statements |
| IKB-2497 | DevToolkit Samples for "Ian" |
| IKB-2517 | Instant: ConversationId in ikb\$console is incorrectly mapped to non-conversation events |
| IKB-2550 | Instant: onFailureToReconnect callback is not in use - remove it |
| IKB-2442 | OWASP Top Ten 2007: Password Management: Password in Comment |
| IKB-2425 | quickstart dropUserCascade required parameter is missing prefix "db." |
| IKB-2602 | WebLogic: weblogic.jaxrs.server.portable.servlet.JerseyServletContainerInitializer - override |
| IKB-2601 | Webdav: WARN HttpManagerBuilderEnt - Using the default calendar search service. Calendar search functions may exhibit poor performance. If thats a problem implement your own: interface io.milton.http.caldav.CalendarSearchService |

5.20. Release 6.4.1

| Issue# | Description |
|----------|--|
| IKB-2255 | Connection leak if database connection initialization fails |
| IKB-2253 | Connection leak in ikbBatch.PageEngineServer |
| IKB-2500 | Quickstart: SAMPLE.properties specifies webIkbRessurs, but engine supports the old name webRessurs |
| IKB-2494 | SAMPLE.properties is incorrect for User and Group lookup |
| IKB-2457 | iKnowBase Installation doc not updated with new .zip structure |

5.21. Release 6.4

| Issue# | Description |
|----------|--|
| IKB-0357 | Content Server - change in default access mechanism |
| IKB-1211 | ACL fra mor-dokument settes på dokument selv om "Copy ACL from master document" ikke er avhuket på informasjonstypen |
| IKB-1314 | quickstart.sh/.cmd should allow execution from other directory |
| IKB-1634 | Should display data-type of attribute on the "template"-tab of the presentation style |
| IKB-1654 | Content Service API: Handle user without defined language |
| IKB-1658 | Document archive - both icons have same tooltip |
| IKB-1787 | Konfigurasjon av tilkobling til epost-server for emailreader |
| IKB-2055 | Upgrade jetty to version 9.x |
| IKB-2075 | Flere kjekke bookmarklets |
| IKB-2185 | [001545] Bug in the sendmail package: Mail is not sent to the address specified in the cc field |
| IKB-2194 | OC4J is no longer supported - remove specifically implemented support |
| IKB-2206 | MENU_DYNAMIC varchar overflow |
| IKB-2207 | HTML_ITEM_PREFS missing index for last changed date |
| IKB-2220 | Distribute solr with (minimal) logging enabled |
| IKB-2225 | Content Studio: Center picklists upon reopen |
| IKB-2235 | ikb transport set issues related to solr config |
| IKB-2236 | Support several solr "installations" in one iknowbase installation |
| IKB-2241 | Sporing i meny blir ikke riktig dersom målsiden har dynamiske parametre |
| IKB-2249 | ikbActivitiExplorer: Class path contains multiple SLF4J bindings |

| Issue# | Description |
|----------|--|
| IKB-2250 | WARNING: The media type and language mappings declared in the ResourceConfig are ignored because there is an instance of com.sun.jersey.api.container.filter.UriConnegFilter present in the list of request filters. |
| IKB-2256 | Picklists: Multiselect in thumbnail-view in image picklist doesn't work after the document picklist has been opened |
| IKB-2259 | solr-søk: feilmelding i error-tab - PK_SOLR_CHANGELOG violated |
| IKB-2260 | Add support for groovy mode in ikbStudio code editor for HTML Viewer |
| IKB-2262 | StandalonePageEngineBuilder should not create it's own services, but rely on injected services instead |
| IKB-2263 | WebDAV: Support direct document access, similar to the content server (/docid/name) |
| IKB-2264 | Upgrade to Ext JS 4.2.2 |
| IKB-2265 | Content Studio: Fixed multiple bugs related to editing an image |
| IKB-2266 | Picklists: Edit label in list view sometimes displays the wrong label |
| IKB-2267 | Quickstart fresh install should assume that Oracle image-editing is available |
| IKB-2268 | Up to and including iKnowBase "Gordon" we use ant for building; now we want to use gradle instead |
| IKB-2269 | Certify iKnowBase with glassfish v4 |
| IKB-2270 | Certify iKnowBase with WebLogic server 12.1.2 |
| IKB-2271 | Remove encoding-dependent source code from Fatax server |
| IKB-2273 | TraceSession and TraceSessionHistory should be serializable (fails session replication) |
| IKB-2275 | Upgrade to wicket 6.10 |
| IKB-2282 | installation properties name, value and qualifier should be trimmed |
| IKB-2284 | Quickstart should have "listProperties" command to ... list properties! |
| IKB-2285 | Quickstart should have "logDirectory" property that controls where logfiles go |
| IKB-2286 | Quickstart should not add extension to logfiles that have extension |
| IKB-2287 | Quickstart "downloadFile" should let you specify the target directory of the file you download |
| IKB-2289 | Add URL-path to WebDAV root as domain-setting |
| IKB-2290 | ikbSelectUserPopup - sjekk om om brukeren er aktiv eller ikke |
| IKB-2291 | Add content viewer function to open document using WebDAV |
| IKB-2292 | Change the way we allocate and use database connections |
| IKB-2293 | Upgrade Instant to Atmosphere v2.0.3 runtime / v2.0.7 js |
| IKB-2297 | Weblogic. Problem with deploy of iKnowBase-6.3-WebLogicAuthenticator.jar |

| Issue# | Description |
|---------------|--|
| IKB-2298 | FreeMarker parameter model should support parameters with null value |
| IKB-2300 | Image scaling - some images variants are bigger than the original |
| IKB-2301 | Upgrade CodeMirror, and activate by default for all pages |
| IKB-2302 | Document upgrade overview in Installation Guide |
| IKB-2303 | Quickstart upgradeAll should also upgrade activiti schema |
| IKB-2304 | ValidateNumericInput prevents the use of tab |
| IKB-2305 | Send a single document to SOLR for indexing |
| IKB-2307 | WebApps should log warnings and above to database error tab |
| IKB-2308 | Secure token sendes inn enkodet med IE |
| IKB-2309 | Unable to parse query string - atmosphere issue 1321 |
| IKB-2311 | Webapps should have a unified index-page |
| IKB-2312 | OID Sync : Group membership are built before the user is created |
| IKB-2314 | Add NLS Definition ID in language console |
| IKB-2315 | Search field in ikbStudio is limited to 40 characters |
| IKB-2316 | ikbStudio: Side URLer er ikke lengre klikkbare |
| IKB-2317 | Create configuration property to disable cache distribution |
| IKB-2318 | Sendmail - improve performance |
| IKB-2320 | Long polling timeout/resubscribe causes leave/join |
| IKB-2321 | Unable to delete pages in ikbStudio - no error messages given |
| IKB-2326 | Feil i viewer med to dato parametre på samme attributt |
| IKB-2330 | Cannot import content studio transport set in ikbStudio due to ORA-39001: invalid argument value |
| IKB-2331 | IKB_SOLR.GET_DOCUMENT fails if we have dimensional attributes where PATH should be indexed |
| IKB-2332 | Form fails if the number of attachments exceeds 60 |
| IKB-2333 | Sendmail: Need to ensure correct CRLF in body-text |
| IKB-2335 | Forhåndsutfyll feltet datasource i nye presentasjonsmaler med "iKnowBase - Documents" |
| IKB-2337 | Store failed emails in a seperate table |
| IKB-2338 | Solr: Should support instance qualifiers other than * for secure token engine secureKey |
| IKB-2339 | Solr: Document installation settings for secure token engine. |
| IKB-2340 | Ensure that Ext is ready before callback is run in "withExt4" |
| IKB-2341 | Add development toolkit for creating custom iKB applications with modifications and plugins |

| Issue# | Description |
|----------|---|
| IKB-2343 | Etter bruk av scrollbar i bildearkiv tolkes musebevegelse som multiselect (kun IE) |
| IKB-2344 | Attribute list for ikb attribute is not sorted for ldap sync profile. |
| IKB-2345 | oid_sync.retrieve_user_information |
| IKB-2346 | Instant: Google Analytics for Atmosphere Framework should be disabled |
| IKB-2347 | Installation Documentation - error |
| IKB-2348 | SOLR queue-name in queries must be stripped |
| IKB-2350 | ikbStudio: Data model consistency report: No more data to read from socket |
| IKB-2354 | Invalid name given to date-fields in SOLR |
| IKB-2355 | SOLR indexing: Created date is not handled by IKB_SOLR |
| IKB-2356 | ikbInstant: Unsubscribe should clear the conversation uuid |
| IKB-2357 | Webdav: Document installation to separate WebDAV-specific hostname |
| IKB-2358 | Håndtering av charaterencoding på LDAP attributter |
| IKB-2359 | ikbViewer should by default be deployed to / |
| IKB-2361 | Add "virtual host" support to quickstart, to allow WebDAV to run in the same container as everything else |
| IKB-2362 | SENDMAIL pakka |
| IKB-2364 | Quickstart should include defaults for webIkbInstantWar and -Path |
| IKB-2365 | ikbWebdav: IKB_DEVELOPERS and IKB_SYSADMINS missing in weblogic deployment descriptor |
| IKB-2368 | Manglende attributter ved flytt av ekstern kilde med transportsett |
| IKB-2369 | Remove documentation for WebLogic 11g |
| IKB-2372 | Sendmail: ÆØÅ in body doesn't work on ISO-8859-Px |
| IKB-2373 | ikbViewer to context root /: Check document usage conters |
| IKB-2374 | ikbViewer to context root /: Check hardkoded "/ikbViewer" in source code |
| IKB-2375 | Do not save personal attribute dimensions when using service api |
| IKB-2376 | Path seperator + viewerPath need to be configurable in solr configuration |
| IKB-2378 | Quickstart basic auth ad: NullPointerException if no username is provided |
| IKB-2381 | Quickstart should support ad (ldap) authentication without wna |
| IKB-2382 | Quickstart wna: support conditional negotiate auth based on request params |
| IKB-2383 | Quickstart properties: Standardize format and show all properties in sample config |
| IKB-2390 | Development toolkit: Add activiti sample |
| IKB-2392 | Upgrade TinyMCE to version 3.5.10 (support for IE11) |
| IKB-2393 | Large list difficult to select as export objects |
| IKB-2394 | Invalid encoding of subject in Sendmail (UTF8) |

| Issue# | Description |
|----------|--|
| IKB-2395 | HTTP/1.1 413 FULL head error with Windows SSO on iKnowBase Quickstart |
| IKB-2397 | Add event-handling to action "Set version active" on documents |
| IKB-2398 | Error in ikb_portlet_predefined_search.build_query:ORA-06502: PL/SQL: numeric or value error: character string buffer too small : ORA-06512: at "IKB_SYSTEST.IKB_PORTLET_PREDEFINED_SEARCH", line 3118 |
| IKB-2399 | Quickstart apps will be partially unavailable if temp directory is cleaned during runtime |
| IKB-2400 | Flere forskjellige charater encoding på felter i LDAP |
| IKB-2401 | Validate email-address Client side - newsletter subscribe/unsubscript |
| IKB-2403 | [002057] Links in mails sent to iPhone/iPad don't work |
| IKB-2404 | [002013] Dimension navigator doesn't show any dimensions for the document field dimension attribute |
| IKB-2405 | Avoid HTML/PDF/TEXT conversion for file formats like images, videos ... |
| IKB-2406 | Should be possible to define how menu active is identified |
| IKB-2407 | IKBStudio → LDAP Sync → Bad performance |
| IKB-2408 | Quickstart pooled database connections are closed while in use due to bug in maxConnectionsResuseTime |
| IKB-2410 | ikbWebdav does not currently support clustering - disable cluster config and document |
| IKB-2411 | ikbInstant undeliverable messages added with plsqli api when server is down will block plsqli api message queue |
| IKB-2412 | The function another_proc() in ikb_merge_generator.pkb sometimes fails to close the cursor opened by open_cursor() |
| IKB-2413 | Poor Error Handling: Empty Default Exception Handler |
| IKB-2419 | Remove support for mounting dimensions as WebDAV folders |
| IKB-2421 | ActiveXControl check for office addin does not work in IE11 |
| IKB-2422 | Remove cluster in deploymentdescriptor for iknowbase-resources |
| IKB-2380 | Quickstart: Error during startup if loginService only contains spnego-ad (and not iknowbase) |
| IKB-2418 | Oracle AQ queues are disabled after import on a fresh install |

5.22. Release 6.3

| Issue # | Description |
|----------|---|
| IKB-1080 | PORTLET_CUSTOM_LOGIN støtter ikke https |
| IKB-1269 | Create URL-parameter to ignore content cache (always refresh) |

| Issue # | Description |
|----------------|--|
| IKB-1643 | reloadComponent: Burde være mulig å angi en js funksjon som callback |
| IKB-1767 | Functionality to add personal access group |
| IKB-1769 | Fix position of SQL hint in SQL |
| IKB-1844 | Check filename for valid characters |
| IKB-1882 | Positioning of popups should be relative to where they are opened from |
| IKB-1886 | Should be possible to choose form on edit-links |
| IKB-1932 | Autokorrektur på Ext dato felter har feil format på dato |
| IKB-1976 | Ext 4 Dato felt i forms har søndag som første dag i uken |
| IKB-1978 | Forms: placeholder vises ikke i Ext datofelt |
| IKB-1983 | Transportsett: Ønske om mulighet til å klargjøre patch-sett uten å endre subsystem |
| IKB-2040 | Transport set for language does not include 'Browser language' settings |
| IKB-2048 | Functionality to edit personal access group |
| IKB-2056 | Image Scaling Event generates very high load on database |
| IKB-2062 | /go/target url gir 404 til eier av dokumenter eller public brukere |
| IKB-2066 | Oracle Text Search - DRG-50901: text query parser syntax error |
| IKB-2071 | [001177] Newsletter - Include feature to filter content by "news since last newsletter" |
| IKB-2085 | Versjonering av dokumenter fungerer ikke |
| IKB-2087 | XSS errors found when running Acunetix |
| IKB-2088 | New database report - show inconcequence between datamodel and xi-tables |
| IKB-2089 | In IKBStudio, it would be nice to see where the data is stored (TABLE-information) |
| IKB-2090 | In IKBStudio, make it possible to search for a GUID also |
| IKB-2091 | ContentServer should support converting files to PDF, HTML and TEXT; ContentViewer should have functions to generate such links |
| IKB-2092 | Caching infrastructure does not use configured values for setting up replicated caches |
| IKB-2094 | Use of sys context in parameters for created date |
| IKB-2095 | Feil i ikb_common_procs.get_language ved brukernavn lenger enn 30 char |
| IKB-2096 | Write object_guid to SQL also for count-query |
| IKB-2097 | Forbedre ytelsen på Dimensjonsnavigatoren |
| IKB-2101 | Create a report to display inconsistency between a local database and IKB-master |
| IKB-2102 | Versjonering: opprettes ny versjon dersom man tar Avbryt på boks for kommentering |
| IKB-2103 | Cache: Support for replicated metadata cache |

| Issue # | Description |
|----------------|--|
| IKB-2104 | Cache: GUID on cached components in ikb\$console/cache should be linked to ikbStudio definition |
| IKB-2106 | Cache: Support for administration of content cache strategy in ikbStudio |
| IKB-2107 | Cache: Support for URL-params in Content Cache Strategy per portlet |
| IKB-2108 | Cache: Cache options that are only applicable to Oracle Portal should be marked accordingly |
| IKB-2109 | Cache: Support for cache invalidation by cache type |
| IKB-2111 | Cache: Support for max-memory limit |
| IKB-2112 | Cache: Display memory used for caching in ikb\$console |
| IKB-2113 | ikb\$console - Report: Show all components configured for content caching |
| IKB-2114 | Improve documentation for cache support |
| IKB-2118 | ikb_pck_document.ConvertBlob2Clob gives wrong result |
| IKB-2120 | Hardcoded text in PORTLET_SEARCH_DIALOG - Enter a searchstring |
| IKB-2123 | Display HTTP session content in ikb\$console |
| IKB-2124 | FreeMarker model/property "viewer.data.level" contains subdocuments |
| IKB-2125 | Invalid target built when using a popup with window options |
| IKB-2129 | ContentServer does not properly support URL-syntax for specifying file by guid |
| IKB-2130 | Implement POPUPS on large select lists |
| IKB-2131 | Support for instant messages for web clients, replacing iKnowInstant |
| IKB-2133 | Better support for deploying ikbViewer to the root context (/) |
| IKB-2134 | Parameterized cleanup of session (so that LOG_DOCUMENTS-deletion can be configured) |
| IKB-2136 | [001389] Development Studio > Form: Not possible to set default content format to "file" or "content" |
| IKB-2138 | HTML-portlet adds one extra whitespace when printed |
| IKB-2139 | From a component definition (form, viewer), make it possible to add the object to a transport set |
| IKB-2140 | ikb_content_viewer.set_parameter_value returns Buffer too small |
| IKB-2142 | Content Studio: Disable insert of copyright and photographer in the image form (this info is inserted from the image metadata) |
| IKB-2145 | SnoopSpringEndpointsReportProvider logs with classname EHCACHEReportProvider |
| IKB-2146 | Upgrade SOLR to 4.2 |
| IKB-2147 | Removed obsolete parameters to procedures in Forms |
| IKB-2149 | Error in doc: quickstart.sh iknowbase.properties exportScripts scripts.zip |

| Issue # | Description |
|----------------|--|
| IKB-2150 | OID_SYNC throws unnecessary error on data lookup |
| IKB-2151 | Enable automatic upload (script based) on transport sets |
| IKB-2152 | Make it possible to redirect to a different domain from a homeplace definition |
| IKB-2156 | Sporing i menyer fungerer ikke helt lengre i siste versjon av ikb |
| IKB-2157 | Ved obligatorisk datofelt uten kalender blir det genererte validate-javascriptet feil |
| IKB-2159 | Unable to define specific groups to map when using AD |
| IKB-2160 | It should be possible to create a homeplace restricted to more than one domain |
| IKB-2162 | Rework page engine development css/js to render toolbars properly when used from reloadComponent |
| IKB-2163 | Integrate newest Activiti 5.13 when ready |
| IKB-2164 | l_result in ikb_contentstudio_functions.get_image_variant to small |
| IKB-2165 | Image picklist styling might be affected of custom css |
| IKB-2166 | Development Studio: Document type filter is missing in search source filter tab |
| IKB-2167 | Character string buffer too small - ikb_ce_admin_editor_portlet - view selected acls |
| IKB-2170 | Quickstart and WNA group lookup: Support for separate and multiple user and group bases |
| IKB-2172 | Detecting active menu in a dimensional PL/SQL menu failed |
| IKB-2175 | ikb_show_content : Validating URL-params (numbers) failed if the number was negative |
| IKB-2176 | Advanced menu: active menu detection fails if present URL is to long |
| IKB-2179 | Content Studio: Change default sort in Image- and Document Archive and picklist to "changed date" descending |
| IKB-2181 | Content Studio: Picklists displays wrong empty text when reopened |
| IKB-2193 | Documentation: OC4J is no longer supported - remove in documentation |
| IKB-2196 | Content Studio: In the "View properties" panel for an image the file size should be shown |
| IKB-2201 | Emailreader klarer ikke lese epost med bilder |
| IKB-2205 | Activiti Form: Error in process execution gives stack trace |
| IKB-2210 | Activiti Form: Dimension popup doesn't work if the field already has a dimension guid |
| IKB-2216 | Activiti Form: Dimension popup does not properly handle multivalued attributess |
| IKB-2221 | Activiti Form should qualify all parameters, to avoid them being available to other components |
| IKB-2227 | Activiti: Not able to remove value in text input-field |
| IKB-2229 | solr: result set navigation issue |

| Issue # | Description |
|----------|---|
| IKB-2231 | Content Studio: ACL should not be required attribute in image form |
| IKB-2232 | Solr: navigationBar viser av og til både "neste" og "siste" på nest siste side; skal bare vise siste |
| IKB-2234 | Content Studio: Edit properties for an image in the document archive doesn't display the form correct |
| IKB-2239 | Create thresholds to log warnings and block indexing of large documents |
| IKB-2240 | Need better way to specify datapump properties |
| IKB-2245 | Replace validation javascript with local resource |
| IKB-2247 | Process Studio: Filters don't work |
| IKB-2248 | Quickstart WNA: Enable lookup of username from alternative attribute |
| IKB-2257 | Support for session replication for ikbViewer |

5.23. Release 6.2

| Issue # | Description |
|----------|--|
| IKB-238 | ACLAdmin - change of owner_id |
| IKB-240 | No error msg when submitting text in an attribute defined as NUMBER |
| IKB-457 | [HD-20395] Input validation in forms |
| IKB-623 | Add timeout to loadURL and loadXML FreeMarker macros |
| IKB-765 | Investigate simple process solution |
| IKB-1132 | Enhance ContentServer cachability through fingerprinting |
| IKB-1183 | Manglende validering av numeriske felt i forms |
| IKB-1415 | FreeMarker ContentViewer Model: Add separate DataFieldXxx objects for all relevant types |
| IKB-1519 | iKB Studio > Development Tools: "Test" button for search source |
| IKB-1770 | Missing indexes on IKB_CRAWLER_LIST |
| IKB-1771 | Showing objects that reference ACL when deleting |
| IKB-1778 | Document the property "callback function" for Viewer and Search Source |
| IKB-1791 | [000420] Security Issue |
| IKB-1804 | Importing menus with "delete details and load again" causes "Submenu" column on MENU_INSTANCE to lose the reference to MENU_ITEM |
| IKB-1807 | Should be possible to use special characters in label of form-buttons |
| IKB-1814 | Transportsett: Kobling til submeny forsvinner dersom man velger "delete details and load again" |
| IKB-1815 | Upgrade from Ext JS 4.0.7 to Ext JS 4.1.3 |

| Issue # | Description |
|----------|---|
| IKB-1823 | Add last_run_duration for Scheduler in ikbStudio |
| IKB-1845 | Content Studio: Implement image add links as viewer instead of menu (like document add links) |
| IKB-1874 | ikbStudio: Not possible to create an image variant without checking the enable-flag |
| IKB-1875 | Personal Acl: Implement paging and search |
| IKB-1881 | ImageScaling: Ratio should be kept if only width or height is given for the image variant |
| IKB-1903 | Use of sys context in external datasource |
| IKB-1909 | Allowing use of {} in FROM-part of external datasource |
| IKB-1910 | ikbStudio: Values fanen i en form inneholder en select med alle ACLer |
| IKB-1912 | Advanced search i Content Studio inneholder en select boks over alle ACLer |
| IKB-1919 | Content Studio: When javascript is disabled in browser, the user should get a proper message |
| IKB-1920 | ikbStudio: Enhance the "Installation Properties" editor, so that it is possible to insert new rows. |
| IKB-1925 | Upgrade to activiti 5.10 |
| IKB-1937 | Form: Kan ikke ha tegnet > i value på en knapp i en html basert form |
| IKB-1938 | FreeMarker model: The showMore property of a Content Viewer should include target attribute |
| IKB-1939 | Feil i ikb_api.get_generic_code_ext_key |
| IKB-1940 | Error in ikb_show_content.get_attribute_values |
| IKB-1941 | "Run using queue" test action in the ikbBatch Page Engine fails when running under WebLogic |
| IKB-1942 | ikb_content_validator.document_usage returns too many errors |
| IKB-1943 | OID Sync: Person dimension is always moved to the top dimension |
| IKB-1944 | _ikbRequestTracefile does not work for ikb\$run (ComponentRunnerController) |
| IKB-1945 | Documentation: Activiti Task Form not documented in Portlet Reference |
| IKB-1946 | Extended "scan" of document-usage |
| IKB-1947 | Add parent_id to upload_document in ikb_contentstudio_functions |
| IKB-1949 | Support for Logout in ikbViewer |
| IKB-1950 | WicketNotSerializableException: Unable to serialize class: java.util.logging.Logger |
| IKB-1955 | Upgrade spring-framework to release 3.1.2 |
| IKB-1956 | Upgrade jQuery to 1.8.3 |
| IKB-1957 | Upgrade spring-ws to version 2.1.x |
| IKB-1958 | Upgrade Groovy to 2.0.x |

| Issue # | Description |
|----------|--|
| IKB-1959 | ikbWebdav: FTP server - Authentication failure - java.lang.IllegalArgumentException: No Configuration was registered that can handle the configuration named oracle.security.jazn.oc4j.JAZNUserManager |
| IKB-1960 | Upgrade apache-httpclient to 4.2.1 |
| IKB-1961 | Create new batch module "contentIndexer", to forward content changes to external search index / engine |
| IKB-1966 | Tilrettelegge for å gruppere logg-entries per "service" |
| IKB-1967 | Upgrade from Ext 4.0.7 to Ext 4.1.2 |
| IKB-1968 | Import doesn't remove prompts that have been deleted from source |
| IKB-1970 | Export: Missing XI tables |
| IKB-1971 | Content Studio: Edit-links in document archive should open the form in a new window |
| IKB-1973 | Image Map Advanced preference name too large |
| IKB-1974 | Upgrade jackson to 2.0.x |
| IKB-1975 | Form2mail as standard functionality in iknowbase forms |
| IKB-1979 | Only one dimension is selected when editing multi-selected dimension attributes |
| IKB-1980 | Quickstart webServer should not require restart when roles are reconfigured |
| IKB-1981 | ikbBatch/fileConverter test programs do not properly handle Content-Type; original docx opens as zip |
| IKB-1982 | If a user cancels execution of reloadComponent, an error message is given |
| IKB-1987 | Tabular layout search source renders NO_DATA_FOUND in illegal html |
| IKB-1990 | FTP Server: Viser templates men ingen presentasjonsmaler |
| IKB-1992 | Change default value on show add/edit links in presentation style to show in show mode |
| IKB-1993 | http:// is added to urls in presentaion style if "link only if content" is selected on title-attribute |
| IKB-1994 | The ikbGoTarget-script doesn't work in Firefox (leads to non-working links) |
| IKB-1995 | ORA-06512: at "IKNOWBASE.IKB_IMPORT", line 1838 during import |
| IKB-1996 | IKB_IMPORT: Mapping of users where ID and GUID is different fails |
| IKB-1999 | Process Studio: Support deployment |
| IKB-2000 | Script actions should be able to retrieve file uploads |
| IKB-2002 | ikb_crawler fails with BAD_SQL_GRAMMAR error |
| IKB-2003 | Validering av numerikse felt |
| IKB-2004 | Unable to compile ikb_show_content at NSF |
| IKB-2005 | ikbStudio: Selecting dimensions for editing does not work in IE under Jetty |

| Issue # | Description |
|----------|--|
| IKB-2006 | ikbGoTarget returns error in firefox |
| IKB-2008 | Searchcode definition for date fields are changed on update. New value set does not contain all values from original set. |
| IKB-2009 | Documentation: Link to Development Guide from the page "iKnowBase Process Services for Activiti - Samples page" doesn't work |
| IKB-2011 | Add support for groovy mode in ikbStudio code editor |
| IKB-2012 | Timestamps/timers in script-logs (e.g. upgradeAll) |
| IKB-2017 | Forslag til presisering i dokumentasjon vedr IKBAAuthenticationPlugin |
| IKB-2018 | iKBStudio - Advanced OID Synch - show log does not do any filtering |
| IKB-2019 | Bookmarklets not functional - missing void |
| IKB-2020 | Support ACL on script targets |
| IKB-2023 | OID_SYNC_IKB.integrate_person set dimension "sort key" to 0 |
| IKB-2025 | Enable the generation of heap dumps from ikb\$console |
| IKB-2026 | Improve handling of HTTPS-scenarios |
| IKB-2037 | Wrong URL for editing Word document |
| IKB-2038 | Fix the DocumentService java-api so that it uses an org.w3c.dom.Element for XML-data |
| IKB-2039 | Job 9351 with sync_ikb_index('NORMAL') does nothing after upgrade from v5.4.1 ⇒ v6.1 |
| IKB-2041 | Missing logger definitions on WLS 12c |
| IKB-2043 | Upgrade slf4j to 1.7.2 and log4j to 1.2.17 |
| IKB-2046 | Create freemarker-model for isDevelopmentMode |
| IKB-2047 | Groovy MarkupBuilders should always have setExpandEmptyElements(true) |
| IKB-2049 | Brukersynk: Personkort-attributt blir ikke slettet - selv om "kilden" ikke lenger har en verdi |
| IKB-2051 | [000367] - Filename is escaped twice for links to related objects |
| IKB-2052 | [000343] - numeric or value error: character string buffer too small in Forms |
| IKB-2054 | Session cookie should handle sso through multiple domains/vhosts on embedded Jetty server |
| IKB-2057 | plsql.QueryRowSetImpl - Error setting locale: dbLocale=null; dbLanguage=n |
| IKB-2060 | Export : Be able to exclude objects without subsystem |
| IKB-2061 | Export: Only export the object itself without all references |
| IKB-2065 | Feil ved åpning av dokumenter med / i filnavn |
| IKB-2070 | In viewer conditions, results from a stored function may be wrong when the sql-clause is built. |

5.24. Release 6.1

| Issue # | Description |
|----------|--|
| IKB-228 | DOCUMENT_TYPE - indexes for check-in / check-out and lock. |
| IKB-729 | In viewer-config: "max records" should be set to "# records" when "#records" is more than 100 (always) and "max records" is empty. |
| IKB-758 | WebDAV-support in the Development Studio. |
| IKB-852 | External Datasource: it would be nice to see the SQL generated. |
| IKB-1450 | Vise "ingen treff" i søkekilde/viewer. |
| IKB-1508 | All required javascripts should be merged and minified into a single file. |
| IKB-1514 | Document the feature to return JSON data upon save from form. |
| IKB-1543 | Image Archive: Make information about image usage available. |
| IKB-1546 | Wrong styling of Lists (ordered and unordered) in xNet and Content Studio. |
| IKB-1568 | Check in and check out link information should be available to FreeMarker templates. |
| IKB-1648 | Publisere tittel med prosenttegn. |
| IKB-1649 | Add null / not null information to procedure signature. |
| IKB-1650 | Add more detailed error information for IKB_CONTENT_VALIDATOR. |
| IKB-1651 | Add more logging to sendmail errors. |
| IKB-1670 | Filtype XLSM inkluderes i standard iKnowBase. |
| IKB-1673 | Improving error logging in IKB.IKB_SOLUTION_EVENTS. |
| IKB-1675 | Search source based on external source: conditions disappear when you change presentation style based on the same external source. |
| IKB-1679 | Signature for <simple> Pres.Style:Database Function added to then documentation. |
| IKB-1688 | iKnowBase System administration.pdf updated with correct procedure for handling gn_seconds_threshold. |
| IKB-1689 | Make "help"-panel in ikbStudio persistent |
| IKB-1690 | Content Studio: Prevent Metadata info overflows in the document card view mode |
| IKB-1691 | HD-71787 Feil rekkefølge i dimensjonsattributt |
| IKB-1692 | Expose ikb\$console in all web applications |
| IKB-1693 | The dimension viewer sometimes fails under Java5. |
| IKB-1694 | Content-Disposition header is incorrect; save as fails |
| IKB-1696 | Add "action" endpoint for running template/code |
| IKB-1697 | HD-53622 How to include images (from image attributes) in newsletters |
| IKB-1703 | Import: Mapping IDs in Generic_codes failes if we have more than one entry (but for different valuelists) with the same ID |

| Issue # | Description |
|----------|---|
| IKB-1704 | Får ikke hentet ut korrekt språk på ledetekstene |
| IKB-1706 | Remove size restrictions on sendmail.attach_text and attach_text_html |
| IKB-1707 | Language pane window: Unable to add HTML in text elements |
| IKB-1708 | Viewer add attributes show english labels, while Pres style add attributes show norwegian labels. |
| IKB-1714 | 000355 Document Picklist: The dimension tree is not filtered according to attribute configuration (dimensions). |
| IKB-1717 | ikbViewer feiler dersom det brukes en meningsbærende URL til en beskyttet side med PUBLIC_BRUKER (ikke pålogget). |
| IKB-1718 | sendmail.begin_mail_in_session_bcc setter ikke feltene cc og bcc i mime-header. |
| IKB-1719 | Unauthorized access to dimensions in search form using select-list. |
| IKB-1720 | Service API should support creation of subdocuments to documents you do not |
| IKB-1721 | Aksjonsportlet mister parameter i URL. |
| IKB-1722 | Add support for ordering document links in form (lost in iKB 6.0) |
| IKB-1723 | [HD-73630] Development Studio: Show created date for acl/group memberships |
| IKB-1724 | [000079] Add support for validity period for personal acl members |
| IKB-1726 | Tuning Prompt Query |
| IKB-1727 | Cannot use index on IKB_PREFERENCE_STORE |
| IKB-1728 | For å få korrekte urler i RSS-feeds som leveres fra iKnowBase må det benyttes & mellom params og ikke & |
| IKB-1729 | Feil rekkefølge på parametere i IKB_SHOW_CONTENT |
| IKB-1730 | Mangler dokumentuttrekk på VarselSKOP-siden |
| IKB-1732 | Content Studio: Initial load of data in document- and image archive should not be performed |
| IKB-1734 | Regression: DimensionViewer will (improperly) display full dimension path when acting as selector |
| IKB-1738 | Feil ved bruk av Personlig ACL |
| IKB-1740 | Feil håndtering av p_document_id i ikb_ce_custom_editor_portlet.redirect_form |
| IKB-1741 | Event rammeverket blir ikke trigget når det skjer endringer på grupper via OID synk. |
| IKB-1743 | Possible tuning of SELECT |
| IKB-1746 | Usage-tab of search sources does not show where the component is used |
| IKB-1749 | Fra NSF: problem med kursrom og to nettleservinduer |
| IKB-1758 | Changing user information in ikbStudio will remove the link to the person card (document_guid) |

| Issue # | Description |
|----------|--|
| IKB-1763 | Show the proper Attribute types (ACL / Information type / User) to the client instead of F. |
| IKB-1764 | Rename portlets for more consistent naming |
| IKB-1768 | Fix error in viewer for folder id in SQL |
| IKB-1774 | Quicklinks disappear |
| IKB-1776 | 000315 Ekstra tegn etter opplasting av fil |
| IKB-1777 | Add online help documentation for page-based newsletters (ikbStudio) |
| IKB-1779 | Debug of redirect cannot be done if log level is ERROR |
| IKB-1780 | Attribute and document content overridden in SES crawler |
| IKB-1784 | 000411 Information in page-based newsletters are not updated as expected |
| IKB-1785 | Query filter plugin error due to ikb_common_procs.get_user_id caching |
| IKB-1788 | Custom picklist: Result set with subdocuments not displayed correctly |
| IKB-1789 | WebDAV missing subfolders |
| IKB-1791 | 000420 Security Issue |
| IKB-1792 | Edit a search source fails when it is configured with many quick links |
| IKB-1793 | SES Crawler with changed behavior for dimension attributes after upgrade to 6.0 |
| IKB-1797 | Content Search Banner portlet does not correctly handle external search targets of type IKB |
| IKB-1800 | Fix logging from EMailReader |
| IKB-1801 | Implement busy indicator |
| IKB-1802 | Implement notifier |
| IKB-1803 | Improve Personal Acl Dialog |
| IKB-1810 | Performance and load issues with ikb_metadata_search.metadata_xml_batch |
| IKB-1811 | Performance issues with evita_portal_generic.remove_duplicates_in_array |
| IKB-1812 | ikb_metadata_search.metadata_xml_batch will fail if there are no documents to process |
| IKB-1816 | Blaing/"ajax reload" feiler i viewer |
| IKB-1817 | OID Sync: Bootstrap sync will remove membership information for all remaining users if LDAP connection is terminated |
| IKB-1826 | Development mode gir 500 Internal server error |
| IKB-1828 | Error for call to db function for versioned document |
| IKB-1832 | Endrer https til http på attributlenker |
| IKB-1833 | [000355] Support dynamic load of dimensions in Content Studio (image- and document archive) |

| Issue # | Description |
|----------|---|
| IKB-1834 | Presentation style with html tags in style attribute is encoded if Show sort [Show sort icons]=[Clickable label] is set. |
| IKB-1836 | Content Studio: Use quicklink labels from viewer configuration in the add menu (document archive) |
| IKB-1841 | Test of components does not work in ikbStudio |
| IKB-1842 | It should be possible to create database trace file using URL parameter |
| IKB-1843 | Show portletTitle in MenuViewer. |
| IKB-1846 | Content Studio: Escape JSON strings in iKnowBase templates which produce JSON data |
| IKB-1848 | Replace hashing function in SecureTokenEngine, from SHA1 to HmacSHA |
| IKB-1849 | Oracle Text - conflict between index sections and use of <title> in HTML-documents |
| IKB-1851 | BatchServer queue listeners does not release database connections properly |
| IKB-1853 | Upgrade TinyMCE to latest version (currently 3.5.2) |
| IKB-1856 | Imagearchive archive with huge dimension tree scrollbar not visible |
| IKB-1860 | HD-72078 Cannot send email to many recipients |
| IKB-1861 | Picklists: Selected items collections not instantiated correctly (erroneously "remember" selection) |
| IKB-1862 | Service API getDocument() should return proper title in document.documentIdentity.label |
| IKB-1863 | ikbProcessServicesWS can't connect to ikbProcessServices EJB |
| IKB-1864 | AD-integrasjon i Quickstart fungerer ikke |
| IKB-1867 | Events: Run batch shows incorrect status on jobs |
| IKB-1868 | Quicklinks should be displayed even if you set "iKB Attrib: DocumentID" to "must have value" and it does not have a value |
| IKB-1870 | ikb_pck_admin.save_prompt updates unchanged rows in PROMPT with new timestamp |
| IKB-1873 | Development mode toolbars should only be rendered on html-pages (i.e. not json, xml, et al) |
| IKB-1877 | Allow manual specification of a page component's markupId |
| IKB-1878 | Quickstart: Import of document/document_attribute is NOT working with Oracle DB 11.2 |
| IKB-1879 | OID Sync - Wrong instance name used in exception-logging for retrieve_user_information |
| IKB-1880 | ikbPopup-based dialog boxes are mis-positioned in ie7, and page is "locked" (rendered grey, modal) |
| IKB-1890 | Upgrade CodeMirror to version 2.3 |

| Issue # | Description |
|----------|---|
| IKB-1892 | Påkrevde attributter av typen dimensjon valideres ikke lengre ved Edit |
| IKB-1896 | Update of a title for an inactive version of a document, leads to update of the document itself |
| IKB-1898 | Reimplement and improve existing Ext3 components using Ext4 |
| IKB-1901 | Norwegian characters are erroneously encoded in old style picklists |
| IKB-1904 | The Url til "Edit Document" is invalid if the target has dynamic parameters |
| IKB-1908 | Info about the returning page is lost (p_form_back_url) when we save a document more than once |
| IKB-1911 | Add several attachments in one operation from Form |
| IKB-1913 | p_operation parameter no longer works in search sources |
| IKB-1914 | Users are always created with Norwegian language when running OID sync |
| IKB-1926 | Support paging when querying LDAP |
| IKB-1928 | Form: character string buffer too small ved for mye html kode eller tekst mellom |
| IKB-1931 | Export: Keep Merge / Delete details flags when creating new transport sets |
| IKB-1934 | Create a function for converting clob to blob (evita_portal_generic.clob_to_blob) |

5.25. Release 6.0

| Issue # | Description |
|----------|--|
| IKB-1455 | ikb_viewer_api initialization — change data caching mechanism for PL/SQL |
| IKB-1529 | Unable to run the new image archive with a different ikbViewer-path |
| IKB-1595 | rss_feed should not change database session settings |
| IKB-1133 | Gibberish in some k*nett forms after upgrade (applies to Chrome and Safari) |
| IKB-1426 | Fjerne bruk av Javascript ved standard søk |
| IKB-1535 | URL documents are opened in same window if no target is defined |
| IKB-1547 | Create Batch service that renders a page using the page engine |
| IKB-1550 | FreeMarker templates for DimensionViewer and MenuViewer should provide access to URLs that are not already HTML-encoded, for example for use in JSON-scenarios |
| IKB-1554 | Very slow editing of Dimension Viewer with 200K+ dimensions |
| IKB-1562 | Errors during import/export are sometimes not saved to log file |
| IKB-1572 | Fix bug where check in and check out (cico) fails |
| IKB-1573 | Mail from iKnowBase does not handle norwegian characters and gets marked as spam |
| IKB-1604 | When saving document from Microsoft Office, events will not fire for the document |

| Issue # | Description |
|----------|---|
| IKB-1544 | Create embeddable page engine |
| IKB-1560 | Upgrade Quickstart application server to jetty 8 |
| IKB-680 | Split Development Studio "development tools" into more sub-sections |
| IKB-945 | Forbedre feilhåndtering ifm SES-crawler konfigurasjon |
| IKB-1257 | ikb crawler: IKB_CRAWLER_LIST not updated correctly |
| IKB-1301 | Propagate request id into database logs, for easier log rendering |
| IKB-1443 | Usertoken does not give access to documents via ikbViewer/Content. However accessing the document through a page works. |
| IKB-1449 | Move ikbViewer NLS-texts from java to ikb_nls_string |
| IKB-1451 | Søkekilde: endre default verdi på "add dynamic parameter" til "can have value, in search filter" |
| IKB-1463 | Aksjonsknappene inne på komponentene ("save", "save and close" etc.) bør ligge nedest på hver side |
| IKB-1462 | Link til oppsett av hurtiglenke og parametre fra viewer |
| IKB-1466 | Page: disable-checkbox for komponenter |
| IKB-1472 | Bildedarkiv: Titler er ikke i alfabetisk rekkefølge. Feil både ved visningsvalget fra a-å og fra å-a. |
| IKB-1469 | Får feil ved åpning av styleset i ikbStudio hos NSF (andre styleset virker) |
| IKB-1477 | Add audit information (created/changed) to ikb_site database table. |
| IKB-1480 | Add text elements to domain, accessible from all templates |
| IKB-1487 | Remove old office addin server endpoints |
| IKB-1499 | condition - sjekk format file/text/link fungerer ikke |
| IKB-1504 | Menu in Development Studio (development tools) should be have two modes; "often used menuitems" and "all menuitems" |
| IKB-1505 | IKB-1503 Reimplementation of the document archive |
| IKB-1518 | Content Studio: Document type icons not showing due wrong css styling |
| IKB-1531 | Textile-based documentation renders using wrong encoding, with errors on ÆØÅ |
| IKB-1532 | Add support for accessing domain information in template models |
| IKB-1536 | The upload handler should properly handle multiple files for a single upload (used for drag+drop) |
| IKB-1540 | Error when synchronizing from Active Directory |
| IKB-1545 | Oracle-tags in portlet_style_set should always run as the connected user |
| IKB-1548 | Image Archive: Show which image folder is selected when the folder panel is collapsed |

| Issue # | Description |
|----------|---|
| IKB-1551 | API Reference Documentation: DimensionTypes not documented in the DimensionViewer chapter |
| IKB-1552 | DimensionViewer: A FreeMarker template for a dimension viewer configured with a dimension attribute doesn't get access to all dimensions |
| IKB-1553 | Fix varchar-limitation in PORTLET_MANAGE_MENU with regards to page name |
| IKB-1555 | Dimension Viewer is slow when there is a large number of dimensions one level below what is loaded |
| IKB-1559 | Add a report in Database admin that will show incompatibility between custom save function and ikb_ce_custom_editor_portlet.save_document |
| IKB-1564 | FreeMarker ContentViewer Model: Add sort information property |
| IKB-1569 | Search source / Content viewer: Change parameters used for sorting from numbered indexes to logical names |
| IKB-1571 | Bug in language support when Ext4 and image picklist are loaded dynamically; will always use norwegian language |
| IKB-1574 | iKB Service API: It should not be possible to change a document, which requires check out, using the service API |
| IKB-1587 | Spring-ws should be upgraded to version 2.0.3 |
| IKB-1586 | ikbStudio: "Advanced OID synchronizing" should be called "LdapSync" |
| IKB-1579 | Handling activation of document version when referenced values have been deleted since the version was created |
| IKB-1583 | Development Studio > Preview pages: Add support for tagging with subsystem |
| IKB-1509 | Scripts specified in \${page.resources} should be served from /ikbViewer, with version-specific filename and maximum caching |
| IKB-1513 | JavaScript target for image picklist on domain definition doesn't work |
| IKB-944 | Sendmail - attachments - iso8859px |
| IKB-1340 | Søkekilde (og \${viewer.search.form}) genererer ikke "title"-attributter |
| IKB-1606 | /ikb\$runner should always require authentication |
| IKB-1615 | [HD-68297] Newsletter: Links created in newsletters don't work on iPhones |
| IKB-1616 | Popups from forms (picklists) opens in caller window |
| IKB-1620 | Add (unsupported) json endpoint for changeDocumentType |
| IKB-1655 | Fix too short varchar-variable in IKB_SHOW_CONTENT |
| IKB-1657 | Extended attribute conditions available in viewer |
| IKB-1423 | Presentasjonsmal: Kunne bruke template med null innhold |
| | Simplified configuration of WebServices security |
| | Extended DocumentModel with properties isFile, isUrl and isText |
| | Added many more reports to the /ikbStudio database tab |

| Issue # | Description |
|----------------|---|
| | Moved quickstart from separate program, into plugin to Quickstart setup program |

Chapter 6. Supported platforms

6.1. Supported web browsers

iKnowBase is built to work with any recent Web Browser.

See WebDAV section for WebDAV specific browser requirements.

6.2. WebDAV

WebDAV uses Microsoft Office URI scheme protocol extensions for triggering direct edit of Microsoft Office documents.

This feature is available and supported by the following web browsers and office versions:

- Windows with Microsoft Office 2010 SP2 and later
 - Internet Explorer
 - Edge
 - Firefox
 - Chrome
- MacOS High Sierra 10.13.6 with Microsoft Office 16.18 (181014)
 - Firefox
 - Safari
 - Chrome

6.2.1. Directory servers

- Oracle Internet Directory (OID) will from 7.1 not be explicitly tested before a new version is released, but the code base will be supported for a time ahead.

6.2.2. Forms based authentication

- Currently not stable and supported on Office 2016 for Mac (IKB-3060)

6.3. Supported application servers

iKnowBase supports these application servers:

- iKnowBase Web Server
- Oracle WebLogic 12.2.1.0.0 with patch #23124727.
- Oracle WebLogic 19c

6.4. Supported Java versions

From iKnowBase 8.1, Java 11 or newer is required for running the iKnowBase applications. iKnowBase 8.0 and earlier require Java 8 or newer.

6.5. Supported database servers

For the database server, Oracle 11g and newer is supported. The latest supported version of the database is preferred, currently 19c.

6.6. iKnowBase Instant

iKnowBase Instant requires Internet Explorer 10 or newer to function properly.

Internet Explorer 9 or older does not support the unsubscribe/disconnect technique used when Instant is used in a CORS setup. This also applies to Internet Explorer mode, i.e. running Internet Explorer 9 mode in Internet Explorer 11.

6.7. File Conversion Service

File Conversion Service is only available for 64-bit Linux servers.