IDOL Server

Software Version 12.13.0

Release Notes

MICRO FOCUS

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Documentation updates

The title page of this document contains the following identifying information:

- Software Version number, which indicates the software version.
- Document Release Date, which changes each time the document is updated.
- Software Release Date, which indicates the release date of this version of the software.

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Many areas of the portal require you to sign in. If you need an account, you can create one when prompted to sign in.

Contents

Introduction to IDOL 12

IDOL 12 is the latest major version of IDOL, and introduced some significant new features.

- **IDOL Audio Analysis** functionality is now available in Media Server, so that you do not need to install IDOL Speech Server separately.

  > **NOTE:** As a result of this change, IDOL Speech Server is not available in IDOL 12.0.0 and later.

- **IDOL Text Index Encryption**. You can now encrypt your IDOL text data index, using AES encryption.
- **Geospatial Index**. The new IDOL text geospatial index improves the handling of geographical search. You can now index geographical regions, as well as points, and the new index supports several new FieldText operators for geographical searches.
- **Dynamic Corpus Functionality**. Web Connector has new functionality to allow you to embed IDOL analytics into the decision making during the data collection process. It can now use custom algorithms to choose whether to ingest a page based on the result of a Lua script.
- **Improved embedded Web browser**. The Web Connector has a new and improved embedded Web browser.

IDOL NiFi Ingest

In addition to the new features and improvements available in the existing IDOL components, the wider IDOL framework now includes IDOL NiFi Ingest.

IDOL NiFi Ingest is a new way to plan and configure your ingestion stream. It uses Apache NiFi to allow you to easily configure and manipulate your data ingest process, from your connectors, to KeyView and other import processes (such as media analysis and Eduction), and your IDOL index.

NiFi Ingest is intended as an alternative to the Connector Framework Server. For more information, refer to the *IDOL NiFi Ingest Help*.

New in this Release

The following sections describe the enhancements for the components of IDOL Server version 12.13.0.

Content Component

New in this Release

- ACI servers that are using an OEM license (or Enterprise OEM license) can now accept HTTP multipart/form-data in a POST request. The request URL must be encrypted to ensure that the client has access to the OEM keys. The multipart/form-data POST request is in plain text.

Resolved Issues

- Content has been made more robust when there are inconsistencies in the term index. Previously, performing an index sync could cause an unexpected termination when the term index files on disk were in a particular invalid state.

  > **NOTE:** The invalid term index will still be missing data, and you must restore the index from a good back-up, or re-index from exported data as soon as possible. If your logs include errors about term data, Micro Focus recommends that you validate the term index (by using the `ValidateDiskIndex` configuration parameter or `DREVALIDATE` with the `Type` parameter set to `diskindex`), and re-index your data if there are validation errors.

- Content has been made more robust when there are inconsistencies in the unstemmed term index. Various operations, including validation, compaction and wildcard queries, could cause an unexpected termination when the unstemmed data was in an invalid state. Affected queries now return a warning.

  > **NOTE:** Wildcard expansions might still be incomplete, and you must regenerate the index as soon as possible. For more information, see `RegenerateUnstemmedIndex` in the *IDOL Content Component Reference*.

- The stemming hash file had an internal limit of around 250 bytes on entries. In certain configurations, an individual term could hit this limit, and its stemming information was dropped. This prevented exact-phrase matches for the original term. The issue affected only terms that were a minimum of 50 unicode characters in length, and usually longer.

  The limit has now been removed to prevent this issue.

  > **NOTE:** This change will not repair the stemming information in any index that was already affected. You must re-index the data to repair it.

- When `NormalizeReferences` was set to **`False`**, MATCH FieldText restrictions on a reference field could fail to return the expected documents.
- When the `IndexSectionsAsPages` was set, Content could produce incorrect page numbers for documents that contained index metafields.
- When `PageInfo` was set to **`True`** in the `Query` action, Content could produce invalid values in the `<autn:page>` response tag for documents that did not contain any page information.

Category Component

New in this Release

- A template and two new processors are available for IDOL NiFi Ingest to support automatic categorization. The AutoCategorizeGenerator processor automatically clusters ingested documents to create categories. The AutoCategorizeLabeller processor adds metadata to a document to specify the available categories that it matches.

  The template describes part of a NiFi process that uses the two processors to perform automatic categorization. You can use this template as part of a larger NiFi ingestion chain. The processors use the clustering functionality of an IDOL Category component to identify potential categories as they see more and more documents. If the potential categories reach a sufficiently stable state, the processor creates categories in the IDOL Category component. It uses these categories to tag ingested documents, with any matches added as XML metadata fields to the document.

  If no stable categories can be established, the process is abandoned and all documents in the ingestion process flow through unchanged.

  For more information, refer to the *IDOL NiFi Ingest Help*.
- ACI servers that are using an OEM license (or Enterprise OEM license) can now accept HTTP multipart/form-data in a POST request. The request URL must be encrypted to ensure that the client has access to the OEM keys. The multipart/form-data POST request is in plain text.

Resolved Issues

There were no resolved issues in Category Component version 12.13.0.

Community Component

New in this Release

- ACI servers that are using an OEM license (or Enterprise OEM license) can now accept HTTP multipart/form-data in a POST request. The request URL must be encrypted to ensure that the client has access to the OEM keys. The multipart/form-data POST request is in plain text.

Resolved Issues

There were no resolved issues in Community Component version 12.13.0.

Connector Framework Server

CFS includes KeyView filters and can run Eduction. For new features and resolved issues related to these components, refer to the *KeyView Release Notes* and *Eduction Release Notes*.

New in this Release

- ACI servers that are using an OEM license (or Enterprise OEM license) can now accept HTTP multipart/form-data in a POST request. The request URL must be encrypted to ensure that the client has access to the OEM keys. The multipart/form-data POST request is in plain text.

Resolved Issues

- The error "NSRLFile.txt not found" could be seen when using `NistRdsTool.exe` to populate NIST RDS hash sets from zip or ISO files larger than 4GB.

Controller

New in this Release

- ACI servers that are using an OEM license (or Enterprise OEM license) can now accept HTTP multipart/form-data in a POST request. The request URL must be encrypted to ensure that the client has access to the OEM keys. The multipart/form-data POST request is in plain text.

Resolved Issues

There were no resolved issues in Controller version 12.13.0.

Coordinator

New in this Release

- ACI servers that are using an OEM license (or Enterprise OEM license) can now accept HTTP multipart/form-data in a POST request. The request URL must be encrypted to ensure that the client has access to the OEM keys. The multipart/form-data POST request is in plain text.

Resolved Issues

There were no resolved issues in Coordinator version 12.13.0.

Distributed Action Handler

New in this Release

- ACI servers that are using an OEM license (or Enterprise OEM license) can now accept HTTP multipart/form-data in a POST request. The request URL must be encrypted to ensure that the client has access to the OEM keys. The multipart/form-data POST request is in plain text.

Resolved Issues

- When processing state tokens submitted in a `StateMatchID` or `StateDontMatchID` parameter, DAH stopped processing any further state tokens when it encountered a docid-based state token that it did not recognize. This resulted in hits being incorrectly included (for `StateDontMatchID`) or excluded (for `StateMatchID`).
- Adding a new child engine with the `EngineManagement` action could result in a later interruption of service when querying in mirror mode.

Distributed Index Handler

New in this Release

- ACI servers that are using an OEM license (or Enterprise OEM license) can now accept HTTP multipart/form-data in a POST request. The request URL must be encrypted to ensure that the client has access to the OEM keys. The multipart/form-data POST request is in plain text.

Resolved Issues

- If DIH was shut down while in the process of removing a child engine (by using engine management), it could fail to restart, logging that the index queue was invalid.

File System Connector

New in this Release

- The connector's synchronize action is now multithreaded. You can specify the number of threads to use by setting the configuration parameter `SynchronizeThreads` in the `[Connector]` section of the configuration file. The connector uses five threads by default.

Resolved Issues

- The connector could terminate unexpectedly when performing a synchronize action, if identifiers were specified to synchronize specific documents.
- The connector was not able to send documents to an Apache NiFi input port when authentication was required.

Find

New in this Release

- The responsiveness of type-ahead/autocomplete in Find has been improved for very slow queries.
- When calling the `ListActions` action, Find now also sends the `Username` parameter (the same as when applying a policy).
- When calling the `ListActions` action or when applying a policy, Find now also sends the `UserRoles` parameter, set to a comma-separated list of Find-specific roles that the user has from Community (which can include: FindUser, FindBI, and FindAdmin).

Resolved Issues

- Comparisons involving saved queries and saved snapshots sometimes ignored parametric filters.
- Parametric filters for numeric and date fields did not always get saved in saved queries and saved snapshots.
- In List view, the displayed document reference did not use the configured custom reference field.
- The document details view (Expand Preview button) showed an error when using a configured custom reference field.
- In universal viewing mode (`viewingMode` set to UNIVERSAL), Find did not use the configured

custom reference field. Find now sends the value from the configured reference field to View Server.

IDOL Admin

IDOL Admin was updated in line with other IDOL components. There were no new features or resolved issues.

IDOL Proxy Component

New in this Release

- ACI servers that are using an OEM license (or Enterprise OEM license) can now accept HTTP multipart/form-data in a POST request. The request URL must be encrypted to ensure that the client has access to the OEM keys. The multipart/form-data POST request is in plain text.

Resolved Issues

There were no resolved issues in IDOL Proxy Component version 12.13.0.

IDOL Site Admin

IDOL Site Admin was updated in line with other IDOL components. There were no new features or resolved issues.

Knowledge Graph Component

New in this Release

- ACI servers that are using an OEM license (or Enterprise OEM license) can now accept HTTP multipart/form-data in a POST request. The request URL must be encrypted to ensure that the client has access to the OEM keys. The multipart/form-data POST request is in plain text.

Resolved Issues

There were no resolved issues in Knowledge Graph version 12.13.0.

License Server

New in this Release

- ACI servers that are using an OEM license (or Enterprise OEM license) can now accept HTTP multipart/form-data in a POST request. The request URL must be encrypted to ensure that the client has access to the OEM keys. The multipart/form-data POST request is in plain text.

Resolved Issues

There were no resolved issues in License Server version 12.13.0.

Media Server

New in this Release

- Media Server can ingest images in HEIC format (an HEVC-encoded image stored inside an HEIF container).
- Media Server uses a new algorithm for face recognition. This offers a significant reduction in the error rate for the identity with the highest confidence score.
- When training vehicle model recognition, you can supply images that show an entire vehicle. In earlier versions of Media Server, you had to supply images that were cropped to show only a vehicle's grille. To supply images that show an entire vehicle, you must also specify the country of origin for each vehicle's license plate.
- ACI servers that are using an OEM license (or Enterprise OEM license) can now accept HTTP multipart/form-data in a POST request. The request URL must be encrypted to ensure that the client has access to the OEM keys. The multipart/form-data POST request is in plain text.

Resolved Issues

- An issue with memory management was resolved in KeyView.
- OCR performed worse than expected on some color images.
- OCR could miss accents on accented characters when processing video, or when processing images with `OCRMode=scene`.
- The database upgrade scripts for MySQL could fail to complete with some versions of MySQL.

Query Manipulation Server Component

New in this Release

- ACI servers that are using an OEM license (or Enterprise OEM license) can now accept HTTP multipart/form-data in a POST request. The request URL must be encrypted to ensure that the client has access to the OEM keys. The multipart/form-data POST request is in plain text.

Resolved Issues

- QMS could send an invalid query to IDOL Content, resulting in an error, when a blacklist or whitelist was applied to a query that included the `DREFUZZY`, `SOUNDEX`, or `SYNONYM` operators. This issue affected only QMS 12.12.0.

Statistics Server Component

New in this Release

- ACI servers that are using an OEM license (or Enterprise OEM license) can now accept HTTP multipart/form-data in a POST request. The request URL must be encrypted to ensure that the client has access to the OEM keys. The multipart/form-data POST request is in plain text.

Resolved Issues

- The Perl script `stats-qms-rules.pl`, provided in the `scripts` folder, failed to extract events from the QMS logs when used with QMS 12.1 or later. (The format of messages in the QMS `Events` log stream changed in IDOL 12.1).

View Server Component

New in this Release

- Highlighting and Redaction now work usefully when you configure the PDF2 KeyView reader. This option displays transparent text layer overlaid on an image rendering of the page.

  > **NOTE:** You enable the PDF2 reader by editing the `formats_e.ini` file to set `200=pdf2sr`.

  - For PDF2-rendered documents, View uses different default highlight tags. By default, View uses a translucent background color, so that the underlying "text" in the image is visible, but highlighted. You can configure these highlight tags by using the

DefaultOverlayStartTagand DefaultOverlayEndTag configuration parameters.

> **NOTE:** You can still override these configured values by using the StartTag and EndTag action parameters.

  - For PDF2-rendered documents, redacted text is surrounded by HTML tags. By default, View uses black text on solid white, so the replacement text is visible and obscures the underlying text in the image layer. You can configure these tags by using the RedactionOverlayStartTag and RedactionOverlayEndTag configuration parameters.

- You can now view only specific pages of a PDF document, by using the new PageRestriction parameter for the View action. For example:

  ```
  action=View&Reference=mydocument.pdf&PageRestriction=1,2,7,9-12
  ```

  This example returns pages 1, 2, 7, 9, 10, 11 and 12 of the specified PDF, in that order.

- ACI servers that are using an OEM license (or Enterprise OEM license) can now accept HTTP multipart/form-data in a POST request. The request URL must be encrypted to ensure that the client has access to the OEM keys. The multipart/form-data POST request is in plain text.

Resolved Issues

- The ViewingTemplatesPath configuration parameter in the standalone View configuration file did not point to the correct location.
- When LegacyRendering was set to **False**, text was not fully redacted in some documents.
- When LegacyRendering was set to **False**, the kvtype information was not populated in the ViewGetDocInfo action response.
- When an action=view request was sent with embedimages=true for a document (such as a web page) with references to images hosted on a remote server, the View Component could return a Bad Parameter error if the server returned an HTTP response without a valid Content-Type header.

Web Connector

New in this Release

- The embedded web browser in Web Connector has been upgraded to Chromium 102.0.5005.57. (Apart from the FIPS-compliant platforms, which use Qt Webkit 5.1.1).

Resolved Issues

- Synchronize tasks could take longer than expected. This was caused by communication issues between Web Connector and its embedded browser (WKOOP), which would ultimately lead to WKOOP timing out and producing an error. This issue affects Web Connector versions 12.8 to

12.12.

- When a website was synchronized incrementally over a secure (HTTPS) connection, and the connector received an HTTP 304 (not modified) response from the server, the response was not handled correctly and the message "Failed To Load Page, Load Timed Out" could be seen in the logs. This would cause the synchronize task to take longer than necessary.
- In some cases the connector did not start correctly and the message "Too many sequential errors starting WKOOP" would appear in the logs. This issue has been resolved by reducing the amount of memory used by WKOOP on startup.
- The GetWeb processor (for IDOL NiFi Ingest) would always use a local state database, even when an external database was configured.
- The connector was not able to send documents to an Apache NiFi input port when authentication was required.

Requirements

This section describes the system requirements, supported platforms, and software dependencies for IDOL Server 12.13.0.

Minimum System Requirements

The following are minimum system requirements for IDOL Server 12.13.0 on any supported operating system platform:

- a dedicated SCSI disk
- 4 GB RAM
- 100 GB disk space
- a minimum of 2 dedicated CPU - Intel Xeon or AMD Opteron or above

To run IDOL Server version 12.13.0, or its components, on UNIX platforms, the server must have the following minimum versions of libraries:

- GLIBC_2.17
- GLIBCXX_3.4.21
- GCC_4.8.0

> **NOTE:** The IDOL Server installer and component stand-alone zip packages provide these libraries in the `libgcc_s` and `libstdc++` shared libraries.
>
> If you start components from the command line (rather than using the init script), you might need to set the `LD_LIBRARY_PATH` to include the *`InstallDir`*`/common` and *`InstallDir`*`/common/runtimes` directories, to ensure that the component can access the installed shared libraries.
>
> You can also copy the shared libraries to the component working directory.

To run IDOL Server version 12.13.0 on the Microsoft Windows operating system, you might need to install Microsoft Visual C++ Redistributable packages. The IDOL Server installer includes the required redistributable files for Microsoft Visual C++ 2019, 2017, and 2013. You can also update your packages by using the latest version at: http://support.microsoft.com/kb/2019667.

Software Dependencies

Some IDOL Server components depend on specific third-party or other Micro Focus IDOL software. The following table details the IDOL Server software and feature dependencies.

Component	Dependencies
Find	Java Runtime Rnvironment (JRE) 8 or 11
IDOL Data Admin	Java Runtime Environment (JRE) 8 or 11
IDOL NiFi Ingest	Java Runtime Environment (JRE) 11
IDOL Site Admin	Java Runtime Environment (JRE) 8 or 11
MMAP	Java Runtime Environment (JRE) 8 or 11
Browsers	• Mozilla Firefox (latest version) • Chrome (latest version)

Supported Operating System Platforms

IDOL Server 12.13.0 is supported on the following platforms.

Windows (x86-64)

- Windows Server 2022
- Windows Server 2019
- Windows Server 2016
- Windows Server 2012

Linux (x86-64)

The minimum supported versions of particular distributions are:

- Red Hat Enterprise Linux (RHEL) 7
- CentOS 7
- SuSE Linux Enterprise Server (SLES) 12
- Ubuntu 14.04
- Debian 8

Notes

Content

Deprecated Features

The following features are deprecated and might be removed in a future release.

Category	Deprecated Feature	Deprecated Since
Configuration	The `NGramOrientalOnly` configuration parameter. You must now use the equivalent `NGramSentenceBrokenScriptOnly` parameter instead.	12.7.0

Eduction

- The sample Eduction configuration files have been updated to remove deprecated settings.

Deprecated Features

The following features have been deprecated.

Category	Deprecated Feature	Deprecated Since
PII Grammar	In the `name_cjkvt.ecr` grammar, the pre_title and post_title entities in the format `pii/name/pre_title/`*`CC`* and `pii/name/post_title/`*`CC`* have been deprecated (where *CC* is the country code cn, kr, or tw). You can now specify these entities in the format `pii/name/pre_title/nocontext/CC`, for consistency with the jp entities.	12.13
Eduction SDK	The ability to specify a license key by supplying a file path has been deprecated. Micro Focus recommends embedding your license key in your application as a string, to avoid having the license key in a file on disk. In the C API the following functions have been deprecated: • `EdkEngineCreate()` • `EdkEngineCreateFromConfigFile()`	12.11

	• `EdkSetLicenseKey()` • `EdkSetLicenseKeyFromFile()` In the Java API the following have been deprecated: • Both of the constructors for `EDKEngine`. • The `setLicenseKey` method of `EDKEngine`. In the .NET API, the following has been deprecated: • The `EDKFactory` constructor: `public EDKFactory(string license_key_path)` Micro Focus recommends supplying the license key as a string, and creating an Eduction engine by using an engine factory. For more information, refer to the API reference documentation.	
.NET Eduction SDK	Eduction SDK support for .NET Standard 1.1 has been deprecated and might be removed in future. Micro Focus recommends using a .NET implementation that supports .NET Standard 2.0.	12.11
Configuration	`[PostProcessingTasks]` configuration section. Use the `PostProcessingTaskN` and `PostProcessThreshold` parameters in the `[Eduction]` section.	12.5

Media Server

- To enable support for images in HEIC format, you must set the new parameter `LibHEIFDirectory`, in the `[Paths]` section of the configuration file. This specifies the path to the directory containing the LibHEIF libraries. In new installations, this configuration parameter is set in the default configuration file.

New Database Schema

- The Media Server database schema has changed. If you are using an internal database, the schema upgrade is performed automatically when you start the new version of Media Server. If you are using an external PostgreSQL or MySQL database you must run an upgrade script, which is included in the Media Server 12.13.0 installation. For more information about upgrading the database schema, refer to the *Media Server Administration Guide*.
- Due to the change in face recognition algorithm you must run the action `BuildAllFaces` after upgrading to Media Server 12.13. This will retrain Media Server to recognize the faces in your training database.

Deprecated Features

The following features are deprecated and might be removed in a future release.

Category	Deprecated Feature	Deprecated Since
Actions	The `GetLatestRecord` action. The new actions `KeepLatestRecords` and `GetLatestRecords` provide more control over what to store and retrieve.	12.5.0
Event Stream Processing	The `MinTimeInterval` and `MaxTimeInterval` parameters for the `And`, `AndThen`, `AndAny`, `AndThenAny`, `AndNot`, `AndNotThen`, and `Combine` engines. Micro Focus recommends using the new configuration parameter `TimestampCondition` instead.	12.3.0
Server / Service	The `AdminClients`, `QueryClients`, `ServiceControlClients`, and `ServiceStatusClients` configuration parameters. Micro Focus recommends that you use authorization roles instead.	11.5.0
Rolling buffer	The action parameter `name`, available on the actions `AddStream`, `EditStream`, `GetStreamInfo`, `PreAllocateStorage`, and `RemoveStream`. Micro Focus recommends that you use the parameter `stream`, instead. The action parameters `OldName` and `NewName`, on the action `RenameStream`. Micro Focus recommends that you use the parameters `Stream` and `NewStream` instead.	11.4.0

Documentation

- The *IDOL Docker Images Technical Note* has been discontinued. You can now find information about the IDOL Docker Images in the *IDOL Getting Started Guide*.

The following documentation was updated for IDOL Server version 12.13.0.

- *IDOL Expert*
- *IDOL Getting Started Guide*
- *IDOL Server Reference* (online help)
- *IDOL Server Administration Guide*
- *IDOL Document Security Administration Guide*
- *Distributed Action Handler Reference* (online help)
- *Distributed Action Handler Administration Guide*
- *Distributed Index Handler Reference* (online help)
- *Distributed Index Handler Administration Guide*
- *License Server Reference* (online help)
- *License Server Administration Guide*
- *Connector Framework Server Reference* (online help)
- *Connector Framework Server Administration Guide*
- *File System Connector Help*
- *Web Connector Help*
- *QMS Reference* (online help)
- *QMS Administration Guide*
- *Media Server Reference* (online help)
- *Media Server Administration Guide*
- *Controller Reference*
- *Coordinator Reference*
- *Knowledge Graph Reference* (online help)
- *Knowledge Graph Administration Guide*
- *Find Administration Guide*
- *IDOL Admin User Guide*

- *IDOL Site Admin Installation Guide*
- *IDOL Site Admin User Guide*