

IDOL Server

Software Version 12.3.0

Release Notes



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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 Education), 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 12.3.0.

Content Component

New in this Release

- The default configuration file for the standalone IDOL Content component has been improved, so that metadata fields commonly produced by IDOL connectors are optimized out-of-the-box.
- When you configure a custom stemming library, you can now defer transliteration until after stemming. In this case, Content sends untransliterated text to the library, and transliterates the results.
- Communications can be secured with TLS version 1.3.

Resolved Issues

- The Content component could fail to return documents when a query began with a stopword followed by the NOT operator.
- If Content was restarted when a custom stemming library was configured, the logs wrongly reported that this setting had been changed, requiring a reindex, even if the value of the setting had not changed.
- Content started even if a custom stemming library failed to load. To ensure index consistency, Content now logs an error and exits if a configured custom stemming library cannot be loaded successfully.
- The DRECOMPACT index action could incorrectly remove unstemmed terms that continued to meet the UnstemmedMinDocOccs threshold, when terms occurred in multiple sections of deleted documents.

Category Component

New in this Release

- Communications can be secured with TLS version 1.3.

Resolved Issues

There were no resolved issues in Category Component version 12.3.0.

Community Component

New in this Release

- Community can automatically create roles, such as those used by IDOL Data Admin, Find, and MMAP, when it starts. To automatically create roles, set the new configuration parameter `AutoCreateRolesCSVs` in the `[Role]` section of the configuration file.
- Communications can be secured with TLS version 1.3.

Resolved Issues

There were no resolved issues in Community Component version 12.3.0.

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

- Communications can be secured with TLS version 1.3.

Resolved Issues

- CFS did not always update IDOL correctly when multiple documents were ingested with the same reference but were intended for different IDOL databases.

Controller

New in this Release

- Controller can start, stop, and restart services using commands suitable for systemd. To configure this, use the new parameter `SystemdCmd` in the `[Server]` section of the IDOL Controller configuration file.
- Communications can be secured with TLS version 1.3.

Resolved Issues

There were no resolved issues in Controller version 12.3.0.

Coordinator

New in this Release

- Communications can be secured with TLS version 1.3.

Resolved Issues

There were no resolved issues in Coordinator version 12.3.0.

Distributed Action Handler

New in this Release

- Communications can be secured with TLS version 1.3.

Resolved Issues

- When `SimpleCombinatorMode` was set to `TRUE`, the response to the `GetStatus` action did not include the `<internal>` and `<readonly>` elements for each IDOL database.

Distributed Index Handler

New in this Release

- Communications can be secured with TLS version 1.3.

Resolved Issues

There were no resolved issues in Distributed Index Handler version 12.3.0.

File System Connector

New in this Release

- The IDOL NiFi Ingest connector supports guided setup, so that you can configure the connector step-by-step.
- Actions other than synchronize are now supported in IDOL NiFi Ingest. There are new NiFi processors that represent these actions.

Fetch action	Description	NiFi Ingest Processor
Collect	Retrieve files from the file system.	FetchFileSystem
Delete	Delete files from the file system.	DeleteFileSystem
Identifiers	List items that exist in the file system.	ListFileSystem
Insert	Insert files into the file system.	PutFileSystem

- The identifiers fetch action can return basic metadata for each file in the file system. To see this information, set the action parameter `ShowMetadata`. The connector can return the creation date (on Windows only), last modified date, and file size.
- Communications can be secured with TLS version 1.3.

Resolved Issues

There were no resolved issues in File System Connector version 12.3.0.

Find

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

HTTP Connector (Solaris only)

New in this Release

- Communications can be secured with TLS version 1.3.

Resolved Issues

There were no resolved issues in HTTP Connector version 12.3.0.

IDOL Admin

New in this Release

There are no new features in IDOL Admin version 12.3.0.

Resolved Issues

- IDOL Admin for Answer Server did not display the value for conversation sessions correctly in the license functionality section.
- IDOL Admin failed to initialize when the server configuration had a `JSONFormat` setting other than the default value.

IDOL Proxy Component

New in this Release

- Communications can be secured with TLS version 1.3.

Resolved Issues

- The response to the `GetLicenseInfo` action did not include details of components that were configured to communicate over SSL.

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

- Communications can be secured with TLS version 1.3.

Resolved Issues

There were no resolved issues in Knowledge Graph version 12.3.0.

License Server

New in this Release

- Communications can be secured with TLS version 1.3.

Resolved Issues

There were no resolved issues in License Server version 12.3.0.

Media Server (Windows and Linux only)

New in this Release

Media Server Core

- Media Server can use a graphics card for ingesting (decoding) and encoding video. Using a GPU to ingest and encode video can reduce the load on the CPU, releasing resources for media analysis.
- Communications can be secured with TLS version 1.3.

Ingest

- The video ingest engine uses a new algorithm to deinterlace video. In some cases, when interlaced video is ingested, this can improve the quality of encoded video and the accuracy of analysis tasks.

Analysis

- Optical Character Recognition uses a new algorithm that improves speed and accuracy, principally when processing Chinese, Japanese, and Korean text.
- Object recognition can ignore objects that do not match the expected size. The object recognition engine now has parameters named `MinSize`, `MaxSize`, and `SizeUnit`.
- Media Server includes a new analysis engine (`Type=PunctuateSpeech`), to enhance the output from speech-to-text. The engine capitalizes the first character of the first word in each sentence, and adds a full stop after the last word in each sentence.
- You can configure speech-to-text to output alternative words (possible alternatives to the recognized word, that were considered less likely), by setting the new configuration parameter `AlternativeWordsThreshold`.
- A new speech-to-text language pack is available for telephony audio: English - Generic. Language packs are not included with Media Server but you can download them from the [MySupport portal](#).
- Language identification supports Hindi (for broadband audio only; this feature is not supported for 8kHz telephony audio).

Event Stream Processing

- The `And`, `AndThen`, `AndAny`, `AndThenAny`, `AndNot`, `AndNotThen`, and `Combine` engines support a new configuration parameter, `TimestampCondition`. This allows you to set time limits for related records using the start, peak, or end record timestamps. For the engines that compare multiple tracks with the `Input0` track, you can also set different time limits for each track.

Transformation

- Media Server can redact words in an audio track, replacing them with a beep or with silence. To redact words run speech-to-text, and include the new `AudioRedaction` engine in your session configuration. You can configure speech-to-text to tag specific words (either for redaction, or for another purpose) by setting the new configuration parameter `MatchWords`.

Resolved Issues

- Words with some accented characters could be ignored when creating Hungarian custom language models.

Query Manipulation Server Component

New in this Release

- Communications can be secured with TLS version 1.3.

Resolved Issues

- QMS could return XML embedded within the JSON response for some actions, when the `ResponseFormat` action parameter was set to `json/1`, `json/0`, or `simplejson`.

Statistics Server Component

New in this Release

- Communications can be secured with TLS version 1.3.

Resolved Issues

There were no resolved issues in Statistics Server version 12.3.0.

View Server Component

New in this Release

- View now uses the new KeyView licensing method.

NOTE:

This change means that View ignores any static KeyView licenses present.

- Communications can be secured with TLS version 1.3.

Resolved Issues

There were no resolved issues in View Component version 12.3.0.

Web Connector (Windows and Linux only)

New in this Release

- The IDOL NiFi Ingest connector supports guided setup, so that you can configure the connector step-by-step.
- Actions other than synchronize are now supported in IDOL NiFi Ingest. There are new NiFi processors that represent these actions.

Fetch action	Description	NiFi Ingest Processor
Collect	Retrieve items from the web.	FetchWeb
Identifiers	List items from the web.	ListWeb

- Communications can be secured with TLS version 1.3.

Resolved Issues

- Web Connector was unable to extract values for multiple metadata fields when the values were extracted using the same CSS selector.

Requirements

This section describes the system requirements, supported platforms, and software dependencies for IDOL Server 12.3.0.

Minimum System Requirements

The following are minimum system requirements for IDOL Server 12.3.0 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 12.3.0, or its components, on UNIX platforms, the server must have the following minimum versions of libraries:

- GLIBC_2.3.2
- 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 12.3.0 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++ 2017 and 2010. 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
Java	Windows, Solaris, Linux: JRE 8 or later
Browsers	<ul style="list-style-type: none">• Internet Explorer 11• Mozilla Firefox (latest version)• Chrome (latest version)

Supported Operating System Platforms

IDOL Server 12.3.0 is supported on the following platforms.

Windows (x86-64)

- Windows Server 2019
- Windows Server 2016
- Windows Server 2012
- Windows 7 SP1
- Windows Server 2008 R2
- Windows Server 2008 SP2

Linux (x86-64)

The minimum supported versions of particular distributions are:

- Red Hat Enterprise Linux (RHEL) 6
- CentOS 6
- SuSE Linux Enterprise Server (SLES) 12
- Ubuntu 14.04
- Debian 8

Solaris (x86-64 and SPARC 64)

- Solaris 11
- Solaris 10

Some components, for example IDOL Media Server and IDOL Web Connector, are not available on Solaris.

Notes

- As a result of changes made to support TLS version 1.3:
 - Certificates that use outdated signature algorithms such as `md5WithRSAEncryption` must be replaced with certificates that use a more secure algorithm, such as `sha256WithRSAEncryption`.
 - RC4 ciphers are no longer supported.
- If you are running IDOL server on the Solaris operating system, ensure you specify an installation path that is less than 30 characters. This prevents an issue with the stop script.

Community

- The `v4` configuration parameter in the `MySecurityRepository` section has been deprecated. Micro Focus recommends that you use only the version 4 Autonomy security types, in which case you do not need to set this parameter.

The `v4` parameter is still available for existing implementations, but it might be incompatible with new functionality. The parameter might be deleted in future.

Connector Framework Server

Deprecated Features

Deprecated Feature	Deprecated Since
The <code>ImportThreadHashing</code> parameter.	12.1.0

Media Server

- The requirements for using a GPU have changed. Media Server now requires NVIDIA driver version 411.31 or later for Windows, and 410.48 or later for Linux. CUDA version 8 is no longer supported. This change does not affect support for specific GPUs, but you might need to update your drivers and change the value of the `CUDAVersion` parameter in your Media Server configuration file.
- Due to the new OCR algorithm, OCR confidence scores are expected to change between Media Server 12.2 and Media Server 12.3. You might need to update session configurations, scripts, and other applications that use these scores. For example, in your session configurations, you might need to modify the value of the `WordRejectThreshold` parameter.

Deprecated Features

Category	Deprecated Feature	Deprecated Since
Event Stream Processing	The <code>MinTimeInterval</code> and <code>MaxTimeInterval</code> parameters for the <code>And</code> , <code>AndThen</code> , <code>AndAny</code> , <code>AndThenAny</code> , <code>AndNot</code> , <code>AndNotThen</code> , and <code>Combine</code> engines. Micro Focus recommends using the new configuration parameter <code>TimestampCondition</code> instead.	12.3.0
Barcode analysis	The <code>ImageBinarizeMethod</code> configuration parameter.	12.2.0
Speech-to-text	The training action <code>SyncCustomSpeechLanguageModels</code> . Micro Focus recommends that you use the new action <code>SyncCustomSpeechResources</code> instead.	12.2.0
Analysis engines	Event tracks. The analysis engines that produce event tracks now have <code>Start</code> and <code>End</code> tracks. The <code>Start</code> and <code>End</code> tracks are the same as the <code>Data</code> track, but they only contain the first or last record for each event. This means that the records describing the start and end of events now have the same schema as records that provide the analysis results.	12.0.0
Scene Analysis	The configuration parameters <code>IsasTrainingDirectory</code> and <code>IsasAlarmDirectory</code> . Micro Focus recommends that you use the parameters <code>SceneAnalysisTrainingDirectory</code> and <code>SceneAnalysisAlarmDirectory</code> instead.	12.0.0
Server / Service	The <code>AdminClients</code> , <code>QueryClients</code> , <code>ServiceControlClients</code> , and <code>ServiceStatusClients</code> configuration parameters. Micro Focus recommends that you use authorization roles instead.	11.5.0
Rolling buffer	The action parameter <code>name</code> , available on the actions <code>AddStream</code> , <code>EditStream</code> , <code>GetStreamInfo</code> , <code>PreAllocateStorage</code> , and <code>RemoveStream</code> . Micro Focus recommends that you use the parameter <code>stream</code> , instead. The action parameters <code>OldName</code> and <code>NewName</code> , on the action <code>RenameStream</code> . Micro Focus recommends that you use the parameters <code>Stream</code> and <code>NewStream</code> instead.	11.4.0

Removed Features

The following features have been removed:

- The configuration parameter `ErrorCharacter`, from Optical Character Recognition.

Documentation

The following documentation was updated for this release.

- *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 Reference* (online help)
- *File System Connector Administration Guide*
- *HTTP Connector Reference* (online help)
- *HTTP Connector Administration Guide*
- *Web Connector Reference* (online help)
- *Web Connector Administration Guide*
- *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 Site Admin Installation Guide*
- *IDOL Site Admin User Guide*