

# IDOL Server

Software Version 12.10.0

## 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 12.10.0.

### Content Component

#### New in this Release

- The `TermExpand` action supports the `FieldText` parameter, so that you can restrict term expansion results to terms that appear in documents that match the specified field text.

**NOTE:** Query Manipulation Server (QMS) sends `TermExpand` actions to the IDOL Content component when you use the `TypeAhead` action with `Mode=Index`. To use `FieldText` restrictions in `TypeAhead` actions (for example `action=TypeAhead&Mode=Index&Text=...&FieldText=...`) you must either upgrade to QMS 12.10 or add `FieldText` to the value of the `AllowedQueryParams` configuration parameter in the `[Server]` section of your QMS configuration file.

- When index encryption is enabled, the Content component encrypts the stored state tokens that are generated when users run queries with `StoreState=True` (if `StoredStateField` has been set so that document references are used instead of document IDs). The Content component does not encrypt existing tokens (created before you upgraded to IDOL 12.10, or before you enabled index encryption).
- When writing critical data on Windows, the Content component instructs the operating system to commit to a physical disk and not an intermediate cache. This means that a system crash or loss of power is less likely to leave Content in an unrecoverable state.
- The third-party libraries `libxml2` and `libxslt` have been updated, to versions 2.9.11 and 1.1.34 respectively.

#### Resolved Issues

- Configuration files that included parameters from another file could be rendered invalid by operations that updated the configuration file on disk (for example adding a database with the action `DRECREATEDBASE`). This primarily affected chained includes, such as cases where `content.cfg` included a section from `a.cfg` which in turn included that section from `b.cfg`.
- `ReferenceType` fields containing a "+" character could not be correctly matched using the `FieldText MATCH{ }` operator.
- An agent boolean involving a field restriction on a wildcard term could incorrectly fail to match against a `textparse` document. (To be affected, the same wildcard term had to be repeated in the agent boolean query, with different field restrictions.)

- When the IDOL Content component was configured with `RequireSecurityInfo=TRUE`, the `TermExpand` action required a valid `SecurityInfo` string even when `SecureTermExpansion` was set to `FALSE` and the `SecurityInfo` string was not used.
- Some patterns of corruption in term index files were not detected by validation or, in some circumstances, could cause the Content component to terminate unexpectedly during the validation process.

## Category Component

### New in this Release

- The third-party libraries `libxml2` and `libxslt` have been updated, to versions 2.9.11 and 1.1.34 respectively.

### Resolved Issues

There were no resolved issues in Category Component version 12.10.0.

## Community Component

### New in this Release

- The third-party libraries `libxml2` and `libxslt` have been updated, to versions 2.9.11 and 1.1.34 respectively.

### Resolved Issues

There were no resolved issues in Community Component version 12.10.0.

## 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

- The third-party libraries `libxml2` and `libxslt` have been updated, to versions 2.9.11 and 1.1.34 respectively.

## Resolved Issues

- When `KeepExtractedFiles` was set to `TRUE`, CFS would not delete any files that it owned. For example, if a connector retrieved a zip file and passed ownership of the file to CFS, then CFS would not delete the file when it finished processing. With `KeepExtractedFiles=TRUE`, the correct behavior is to keep only extracted subfiles.
- The `QueueInfo` action (with `QueueAction=GetStatus`) would return an error when the total number of actions exceeded 999.

## Controller

### New in this Release

- The third-party libraries `libxml2` and `libxslt` have been updated, to versions 2.9.11 and 1.1.34 respectively.

### Resolved Issues

- The `QueueInfo` action (with `QueueAction=GetStatus`) would return an error when the total number of actions exceeded 999.

## Coordinator

### New in this Release

- The third-party libraries `libxml2` and `libxslt` have been updated, to versions 2.9.11 and 1.1.34 respectively.

### Resolved Issues

- The `QueueInfo` action (with `QueueAction=GetStatus`) would return an error when the total number of actions exceeded 999.

## Distributed Action Handler

### New in this Release

- The DAH will start with zero Content engines configured. This applies only when `SimpleCombinatorMode=TRUE`. You can add Content engines after starting the DAH by using the `EngineManagement` action.

- The third-party libraries libxml2 and libxslt have been updated, to versions 2.9.11 and 1.1.34 respectively.

## Resolved Issues

There were no resolved issues in Distributed Action Handler version 12.10.0.

## Distributed Index Handler

### New in this Release

- In simple distribution mode, either with or without `DistributeSendMinimal`, you can remove a child Content engine or group and the DIH will automatically redistribute its documents among the remaining servers. To do this, run the `DREREDISTRIBUTE` index action and use the new `RemoveGroup` parameter to specify the ID of the Content engine or group to remove. This feature is not compatible with mirror mode, distribute by reference, distribute by batch, distribute by date, or distribution by field values.
- The third-party libraries libxml2 and libxslt have been updated, to versions 2.9.11 and 1.1.34 respectively.

### Resolved Issues

- Content engines could be incorrectly labeled full, when using OEM licensing and the Content engines started before the DIH was started with `CollectChildFullness=True`.

## File System Connector

### New in this Release

- The third-party libraries libxml2 and libxslt have been updated, to versions 2.9.11 and 1.1.34 respectively.

### Resolved Issues

- The `QueueInfo` action (with `QueueAction=GetStatus`) would return an error when the total number of actions exceeded 999.

## Find

### New in this Release

- Find can apply policies to documents through Apache NiFi. An administrator can configure the host name and port of a NiFi HandleAction processor in the Find settings page. After doing this an **Apply Policy** menu item is available on search pages (unsaved search, saved search, and snapshots) so that users who are assigned the FindBI role can apply a policy to their search results. The policy actions are defined by your NiFi dataflow.

### Resolved Issues

- Find did not apply query manipulation when generating stored state tokens. Consequently, if documents were exported in CSV format or to ControlPoint, the exported results could differ from the intended query.

## HTTP Connector (Solaris only)

### New in this Release

- The third-party libraries libxml2 and libxslt have been updated, to versions 2.9.11 and 1.1.34 respectively.

### Resolved Issues

- The QueueInfo action (with QueueAction=GetStatus) would return an error when the total number of actions exceeded 999.

## IDOL Admin

### New in this Release

There were no new features in IDOL Admin version 12.10.0.

### Resolved Issues

There were no resolved issues in IDOL Admin version 12.10.0.

## **IDOL Proxy Component**

### **New in this Release**

- The third-party libraries libxml2 and libxslt have been updated, to versions 2.9.11 and 1.1.34 respectively.

### **Resolved Issues**

There were no resolved issues in IDOL Proxy Component version 12.10.0.

## **IDOL Site Admin**

### **New in this Release**

There were no new features in IDOL Site Admin version 12.10.0.

### **Resolved Issues**

There were no resolved issues in IDOL Site Admin version 12.10.0.

## **Knowledge Graph Component**

### **New in this Release**

- The third-party libraries libxml2 and libxslt have been updated, to versions 2.9.11 and 1.1.34 respectively.

### **Resolved Issues**

- The QueueInfo action (with QueueAction=GetStatus) would return an error when the total number of actions exceeded 999.

## **License Server**

### **New in this Release**

- The third-party libraries libxml2 and libxslt have been updated, to versions 2.9.11 and 1.1.34 respectively.

## Resolved Issues

There were no resolved issues in License Server version 12.10.0.

## Media Server (Windows and Linux only)

### New in this Release

- Media Server includes a new analysis engine (Type=VideoMatch), which recognizes when an ingested video matches or contains a video clip that has been added to the training database. You can use this engine to determine whether a video you are processing has been seen before.
- The Milestone ingest engine can ingest video through the Milestone MIP SDK. This is supported only on Windows but uses a more efficient method of sending video across the network, resulting in lower bandwidth requirements. In the [Paths] section of the configuration file, set the parameter MilestoneDirectory to the path of the Milestone libraries, for example MilestoneDirectory=C:\Milestone\MIPSDK\bin. If you do not set this parameter, Media Server falls back to a cross-platform solution.
- Face detection has a new parameter named DetectionThreshold. Increasing the value of this parameter can reduce the number of false positives but increases the risk of missing genuine faces. Reducing the value increases the chance of detecting a genuine face, but Media Server might detect more false positives. The default value of this parameter gives the same results as Media Server 12.9.
- In the output from face detection, the fields outOfPlaneAngleX and outOfPlaneAngleY support values from a continuous range, instead of just +90/-90, +60/-60, or 0.
- You can configure Media Server to pre-load the resources necessary for OCR orientation and alphabet detection. This can improve throughput when you run many process actions that need these resources and complete quickly, because it removes the overhead of loading the resources at the start of each action and unloading them at the end. To pre-load these resources and keep them in memory, set OCRA1phabetAndOrientation=TRUE in the [PersistentData] section of the Media Server configuration file.
- The WordResult track, produced by Optical Character Recognition to provide information about individual words, is now available when you process video. In earlier versions of Media Server this track was available only for images and documents. A new WordData track has also been added, to provide information about words recognized in each processed frame. The WordResult track does not support scrolling text.
- The Lua script parentuuidMatch.lua has been improved. This script is supplied with Media Server so that you can, for example, match clothing analysis results with detected faces. The script now works with child records that were generated by the And and Combine ESP engines. It also uses both the ID and parentID fields in the child record when looking for a matching parent UUID.

- A new pre-trained classifier (`ImageClassifier_TextFilter.dat`) is available, to divide images into those that contain text and those that do not. You can classify your images before running OCR, to avoid processing any images that do not contain text.
- Media Server has new actions (`GetSpeakerAudio`, `GetUnknownSpeakerAudio`, and `GetAudioMatchAudio`) so that you can retrieve audio from the training database. There are also new actions to remove the audio from the database but leave the training (`NullSpeakerAudioData`, `NullUnknownSpeakerAudioData`, and `NullAudioMatchAudioData`).
- The third-party libraries `libxml2` and `libxslt` have been updated, to versions 2.9.11 and 1.1.34 respectively.

## Resolved Issues

- Media Server could fail to process some PDF files because `KeyView` could return XML with invalid UTF-8 characters.
- The `QueueInfo` action (with `QueueAction=GetStatus`) would return an error when the total number of actions exceeded 999.

## Query Manipulation Server Component

### New in this Release

- `FieldText` restrictions in `TypeAhead` actions (`action=TypeAhead&Mode=Index&Text=...&FieldText=...`) are forwarded to the IDOL Content component `TermExpand` action (requires IDOL Content 12.10).
- The third-party libraries `libxml2` and `libxslt` have been updated, to versions 2.9.11 and 1.1.34 respectively.

### Resolved Issues

- The `TypeAhead` action (with `Mode=Index`) failed to return results when the IDOL Content component was configured with `RequireSecurityInfo=TRUE`.
- The `TypeAhead` action (with `Mode=Index`) could return an extra, empty expansion suggestion when using a DAH to retrieve `TermExpand` results from the IDOL Content component.
- An issue with the Lua document tracking library could cause QMS to terminate unexpectedly when an invalid data file was present in the `doctrack` directory. An invalid data file could exist after an interruption of service, such as a loss of power to the server.

## Statistics Server Component

### New in this Release

- The third-party libraries libxml2 and libxslt have been updated, to versions 2.9.11 and 1.1.34 respectively.

### Resolved Issues

There were no resolved issues in Statistics Server version 12.10.0.

## View Server Component

### New in this Release

- The third-party libraries libxml2 and libxslt have been updated, to versions 2.9.11 and 1.1.34 respectively.

### Resolved Issues

- With improved KeyView HTML rendering (`LegacyRendering=False`), embedded images were not displayed when viewing documents retrieved from a Distributed Connector or a web server.
- Highlighting did not always work correctly for PowerPoint files retrieved through a Distributed Connector.

## Web Connector (Windows and Linux only)

### New in this Release

- The connector uses canonical paths to identify pages, for example in IDOL document references. In previous versions of the connector, the URLs `http://www.example.com/page.html` and `http://www.example.com/dir/./page.html` were considered to be different and the connector would ingest two separate documents.
- The configuration parameter `RSSXSLFilePath` has been added. This specifies an XSL transformation to use to convert an RSS feed into HTML, so that it can be processed by the connector. The specified transformation is applied only if the RSS feed does not supply its own XSL transform. A transform named `RSSTransform.xsl` is supplied with the connector. You can use this to transform XML that complies with the RSS specification.

- The third-party libraries libxml2 and libxslt have been updated, to versions 2.9.11 and 1.1.34 respectively.

## **Resolved Issues**

- The embedded web browser (WKOOP) could fail to start when the connector was used in NiFi and NiFi had many open file handles.
- The ViewWeb NiFi processor failed to retrieve documents for viewing.
- The QueueInfo action (with QueueAction=GetStatus) would return an error when the total number of actions exceeded 999.

# Requirements

This section describes the system requirements, supported platforms, and software dependencies for IDOL Server 12.10.0.

## Minimum System Requirements

The following are minimum system requirements for IDOL Server 12.10.0 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 12.10.0, 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 12.10.0 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
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Find	Java Runtime Environment (JRE) 8 or 11
IDOL Data Admin	Java Runtime Environment (JRE) 8 or 11
IDOL NiFi Ingest	Java Runtime Environment (JRE) 8
IDOL Site Admin	Java Runtime Environment (JRE) 8 or 11
MMAP	Java Runtime Environment (JRE) 8 or 11
Browsers	<ul style="list-style-type: none"><li>• Mozilla Firefox (latest version)</li><li>• Chrome (latest version)</li></ul>

## Supported Operating System Platforms

IDOL Server 12.10.0 is supported on the following platforms.

### Windows (x86-64)

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

### Solaris (x86-64 and SPARC 64)

**DEPRECATED:** Support for Solaris x86-64 and SPARC 64 was deprecated in IDOL version 12.10, for all IDOL components except KeyView. IDOL components are currently still available for Solaris, but might not be available in future.

- Solaris 11
- Solaris 10

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

## Notes

- 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.

## Content

### Deprecated Features

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

Category	Deprecated Feature	Deprecated Since
Configuration	The <code>HMACValidation</code> configuration parameter. In version 12.9.0, the AES implementation for encrypting security info strings was updated to include built-in authentication, so additional HMAC validation is no longer required or supported.	12.9.0
Configuration	The <code>NGramOrientalOnly</code> configuration parameter. You must now use the equivalent <code>NGramSentenceBrokenScriptOnly</code> parameter instead.	12.7.0

## Community

### Deprecated Features

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

Category	Deprecated Feature	Deprecated Since
Configuration	The <code>HMACValidation</code> configuration parameter. In version 12.9.0, the AES implementation for encrypting security info strings was updated to include built-in authentication, so additional HMAC validation is no longer required or supported.	12.9.0

## Education

### Deprecated Features

The following features have been deprecated.

Category	Deprecated Feature	Deprecated Since
Configuration	[PostProcessingTasks] configuration section. Use the PostProcessingTaskN and PostProcessThreshold parameters in the [Eduction] section.	12.5

## Media Server

### Deprecated Features

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

Category	Deprecated Feature	Deprecated Since
Session configuration	The RestrictToInputRegion configuration parameter has been deprecated. Micro Focus recommends setting Region=Input instead.	12.7.0
Session configuration	<p>To simplify configuration, units can be specified in the same parameter as the corresponding value. As a result the following configuration parameters have been deprecated:</p> <ul style="list-style-type: none"> <li>• BorderUnit (Crop transformation)</li> <li>• CharHeightUnit (Number plate recognition, text detection)</li> <li>• PathUnit (Path alerts)</li> <li>• RegionUnit</li> <li>• SizeUnit (Face detection, object recognition, persistent change detection)</li> <li>• TripwireUnit (Tripwire alerts)</li> </ul> <p>Micro Focus recommends that you update your session configurations. For example, if you have a configuration that sets the Region parameter, add units alongside the parameter value. If the parameters listed above are removed in a future version of Media Server, values without units will become invalid.</p>	12.7.0
Databases	The ODBCManager parameter (in the [Database] section of the Media Server configuration file, and for output engines that use ODBC). You no longer need to set this parameter.	12.6.0

Actions	The <code>GetLatestRecord</code> action. The new actions <code>KeepLatestRecords</code> and <code>GetLatestRecords</code> provide more control over what to store and retrieve.	12.5.0
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
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	<p>The action parameter name, 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.</p> <p>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.</p>	11.4.0

# Documentation

The following documentation was updated for IDOL Server version 12.10.0.

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