

# IDOL Server

Software Version 12.2.0

## Release Notes



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# Contents

Introduction to IDOL 12 .....	5
New in this Release .....	6
Content Component .....	6
New in this Release .....	6
Resolved Issues .....	6
Category Component .....	6
New in this Release .....	6
Resolved Issues .....	6
Community Component .....	7
New in this Release .....	7
Resolved Issues .....	7
Connector Framework Server .....	7
New in this Release .....	7
Resolved Issues .....	7
Controller .....	7
New in this Release .....	7
Resolved Issues .....	8
Coordinator .....	8
New in this Release .....	8
Resolved Issues .....	8
Distributed Action Handler .....	8
New in this Release .....	8
Resolved Issues .....	8
Distributed Index Handler .....	8
New in this Release .....	8
Resolved Issues .....	9
File System Connector .....	9
New in this Release .....	9
Resolved Issues .....	9
Find .....	9
New in this Release .....	9
Resolved Issues .....	9
HTTP Connector (Solaris only) .....	10
New in this Release .....	10
Resolved Issues .....	10
IDOL Admin .....	10

- IDOL Proxy Component ..... 10
  - New in this Release ..... 10
  - Resolved Issues ..... 10
- IDOL Site Admin ..... 11
- Knowledge Graph Component ..... 11
  - New in this Release ..... 11
  - Resolved Issues ..... 11
- License Server ..... 11
  - New in this Release ..... 11
  - Resolved Issues ..... 11
- Media Server (Windows and Linux only) ..... 12
  - New in this Release ..... 12
  - Resolved Issues ..... 13
- Query Manipulation Server Component ..... 13
  - New in this Release ..... 13
  - Resolved Issues ..... 14
- Statistics Server Component ..... 14
  - New in this Release ..... 14
  - Resolved Issues ..... 14
- View Server Component ..... 14
  - New in this Release ..... 14
  - Resolved Issues ..... 14
- Web Connector (Windows and Linux only) ..... 15
  - New in this Release ..... 15
  - Resolved Issues ..... 15
- Resolved Issues ..... 16
- Requirements ..... 17
  - Minimum System Requirements ..... 17
  - Software Dependencies ..... 18
  - Supported Operating System Platforms ..... 18
- Notes ..... 20
- Documentation ..... 22

# 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 12.2.0.

## Content Component

### New in this Release

- IDOL Content supports a new service action, `IndexerGetStatus`. This is similar to the `IndexerGetStatus` ACI action, but is not blocked when a `DREINITIAL` command is in progress and only returns the most recent item from the index queue.
- The response of the `GetStatusInfo` service action indicates whether a `DREINITIAL` command is in progress.
- Elliptic Curve certificates and keys are supported, to enable the use of ECDSA and ECDH ciphers in TLS communications.

### Resolved Issues

- Query operators containing a distance (for example, `NEAR3`) did not work correctly when the characters 0-9 were configured as `SoftSeparators`.
- When the results of a parametric search were sorted with the `NumberIncreasing` or `NumberDecreasing` options, non-numeric values were returned before numeric values.

## Category Component

### New in this Release

- Elliptic Curve certificates and keys are supported, to enable the use of ECDSA and ECDH ciphers in TLS communications.

### Resolved Issues

There were no resolved issues in Category Component version 12.2.0.

## Community Component

### New in this Release

- Elliptic Curve certificates and keys are supported, to enable the use of ECDSA and ECDH ciphers in TLS communications.

### Resolved Issues

There were no resolved issues in Community Component version 12.2.0.

## Connector Framework Server

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

### New in this Release

- Elliptic Curve certificates and keys are supported, to enable the use of ECDSA and ECDH ciphers in TLS communications.

### Resolved Issues

- Setting the `DefaultDatabaseName` configuration parameter had no effect.
- CFS could create IDOL documents where field names were invalid because they contained spaces. If CFS was configured to index documents in XML format, this would result in invalid XML and cause indexing to fail.

## Controller

### New in this Release

- Elliptic Curve certificates and keys are supported, to enable the use of ECDSA and ECDH ciphers in TLS communications.

## Resolved Issues

There were no resolved issues in Controller version 12.2.0.

## Coordinator

### New in this Release

- Elliptic Curve certificates and keys are supported, to enable the use of ECDSA and ECDH ciphers in TLS communications.

### Resolved Issues

There were no resolved issues in Coordinator version 12.2.0.

## Distributed Action Handler

### New in this Release

- Elliptic Curve certificates and keys are supported, to enable the use of ECDSA and ECDH ciphers in TLS communications.

### Resolved Issues

There were no resolved issues in Distributed Action Handler version 12.2.0.

## Distributed Index Handler

### New in this Release

- Elliptic Curve certificates and keys are supported, to enable the use of ECDSA and ECDH ciphers in TLS communications.

## Resolved Issues

There were no resolved issues in Distributed Index Handler version 12.2.0.

## File System Connector

### New in this Release

- The `view` action has a new parameter, named `WithMetadata`, that specifies whether to return metadata in the action response when `NoACI=false`.
- The `collect`, `insert`, `stub`, and `update` fetch actions accept metadata as structured XML, as an alternative to a flat list of name and value pairs. For information about whether a connector supports these actions, refer to the Administration Guide.
- Elliptic Curve certificates and keys are supported, to enable the use of ECDSA and ECDH ciphers in TLS communications with other IDOL components.

### Resolved Issues

There were no resolved issues in File System Connector version 12.2.0.

## Find

### New in this Release

- Find can read user names from a custom field in IDOL Community, specified by the new property `find.community.username.field`. Setting this property does not affect the user name used to log in to Find; it allows you to choose a friendly name to display in the Find user interface.
- When you configure Find to send questions to an IDOL Answer Server, you can choose which systems to query to find answers.

### Resolved Issues

- Users were unable to log in when the IDOL Community component was configured with `CheckEntitlement=TRUE`.

## HTTP Connector (Solaris only)

### New in this Release

- The connector supports SNI (Server Name Indication) when making TLS connections, so that it can retrieve data from web servers that require clients to support it.
- The `collect`, `insert`, `stub`, and `update` fetch actions accept metadata as structured XML, as an alternative to a flat list of name and value pairs. For information about whether a connector supports these actions, refer to the Administration Guide.
- Elliptic Curve certificates and keys are supported, to enable the use of ECDSA and ECDH ciphers in TLS communications with other IDOL components.

### Resolved Issues

There were no resolved issues in HTTP Connector version 12.2.0.

## 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

- Elliptic Curve certificates and keys are supported, to enable the use of ECDSA and ECDH ciphers in TLS communications.

### Resolved Issues

There were no resolved issues in IDOL Proxy Component version 12.2.0.

## **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**

- Elliptic Curve certificates and keys are supported, to enable the use of ECDSA and ECDH ciphers in TLS communications.

### **Resolved Issues**

There were no resolved issues in Knowledge Graph version 12.2.0.

## **License Server**

### **New in this Release**

- Elliptic Curve certificates and keys are supported, to enable the use of ECDSA and ECDH ciphers in TLS communications.

### **Resolved Issues**

There were no resolved issues in License Server version 12.2.0.

# Media Server (Windows and Linux only)

## New in this Release

### Media Server Core

- Media Server GPU acceleration supports NVIDIA graphics cards built on the Volta and Turing micro-architectures.
- Media Server has a new action, `GetConfigKeys`, that provides information about session configuration parameters.
- The `ValidateProcessConfig` action returns information that can be used to draw the engine graph (the engines used in the session configuration and the connections between them).
- Media Server provides a new Lua function, `fillRectangle`, so that you can draw filled rectangles. Another new function, `rgba`, returns an object that represents a color with an associated opacity value. You can use these functions to obscure or highlight parts of encoded images.
- Elliptic Curve certificates and keys are supported, to enable the use of ECDSA and ECDH ciphers in TLS communications.

### Analysis

- The accuracy of face recognition has improved significantly.
- You can expand the vocabulary of speech-to-text (allowing Media Server to identify additional words) by adding words to a custom word database. You can use a custom word database to supplement a custom language model, or if you do not have sufficient text to train a custom language model.
- Speech-to-text, transcript alignment, and language identification support Ukrainian (for broadband audio only; this feature is not supported for 8kHz telephony audio). The speech-to-text language pack is not included with Media Server but can be downloaded separately. Language identification is supported out-of-the-box.
- Language identification supports the parameter `SpeedBias`, so that when you are processing audio from a file you can choose whether to prioritize accuracy or processing speed.
- Language identification supports the parameter `SegmentDuration` (in `cumulative` or `segmented` mode), so that you can choose how much audio to analyze in a single segment.
- You can train object class recognition on a machine without a GPU (previous versions of Media Server required a GPU). Training with a GPU is significantly faster.
- The `SyncClassifiers` and `SyncObjectClasses` actions can synchronize a single classifier or recognizer, as an alternative to loading training for all classifiers or recognizers.

## Event Stream Processing

- The `AndAny`, `AndThenAny`, `AndNot`, and `AndNotThen` engines accept more than one input for comparison with the `Input0` track. These engines output records received from the `Input0` track if any (or none in the case of the `AndNot` and `AndNotThen` engines) of the other tracks contain a record that meets the relevant conditions. This feature simplifies some complex configurations because you can use fewer ESP tasks.

## Transformation

- The Lua script that you write for a `SetRectangle` task can return multiple rectangles for each input record.

## Output

- You can encrypt the value of the `OdbcConnectionString` parameter, for the ODBC output engine.

## User Interfaces

- The amount of time that traffic lights must be red before Media Server generates alarms can now be configured through the Scene Analysis Training Utility.

## Resolved Issues

This section lists the resolved issues in Media Server version 12.2.0.

- In cumulative mode, language identification could output multiple results to the `Result` track.
- Sometimes the audio service did not stop when Media Server was stopped.
- The `ListClassifiers`, `ListObjectClassRecognizers`, and `ListDatabases` actions were extremely slow when the database contained training for image classification or object class recognition.
- Object class recognition could return an error when training classes on certain images.

## Query Manipulation Server Component

### New in this Release

- QMS can use synonym rules to expand exact phrase searches. To expand exact phrases by default, set `ExpandPhrases=TRUE` in the `[Server]` section of the configuration file. You can override the value of this configuration parameter for individual actions by setting the `ExpandPhrases` action parameter.

- QMS uses the action ID it receives in a `GetSynonyms` or `GetSynonymKeywords` action to set the action ID for actions that it sends to the AgentStore to fulfill the original request.
- Elliptic Curve certificates and keys are supported, to enable the use of ECDSA and ECDH ciphers in TLS communications.

## Resolved Issues

There were no resolved issues in Query Manipulation Server version 12.2.0.

## Statistics Server Component

### New in this Release

- Elliptic Curve certificates and keys are supported, to enable the use of ECDSA and ECDH ciphers in TLS communications.

### Resolved Issues

There were no resolved issues in Statistics Server version 12.2.0.

## View Server Component

### New in this Release

- You can specify a list of hosts and URLs that can be accessed to view documents, by setting the new configuration parameters `ViewAllowedHostsList` and `ViewAllowedURLsList`. When you set one or both of these parameters, any URL that is not explicitly allowed is blocked. You can also use these new parameters alongside the existing parameters `ViewBlockedHostsCSVs` and `ViewBlockedURLsCSVs`. If a URL matches both a blocked list and an allowed list, it is blocked.
- Elliptic Curve certificates and keys are supported, to enable the use of ECDSA and ECDH ciphers in TLS communications.

### Resolved Issues

There were no resolved issues in View Component version 12.2.0.

## Web Connector (Windows and Linux only)

### New in this Release

- Web Connector can remove query parameters from URLs, to prevent content being ingested multiple times when the connector finds links to the same page but with different query parameter values. To specify the query parameters to remove, set the new configuration parameter `StripQueryParametersRegex`.
- Web Connector can remove HTML comments from pages before they are ingested. To do this, set the new configuration parameter `RemoveComments=TRUE`.
- At the end of a synchronize cycle, the connector can delete the cookies it has saved. This ensures that new cookies are obtained at the start of the next cycle. To delete cookies, set the new configuration parameter `CleanCookieJar=TRUE`.
- Web Connector provides additional options to configure PDF rendering. For example, you can specify the page size and margins, and configure the connector to ignore the web page background rather than including it in the PDF file. (This feature is available on Windows and Linux platforms only. It is not available for the `LINUX_X86_64_RHEL7FIPS` platform).
- Web Connector can detect errors by checking page URLs against a regular expression, or by checking whether specific content exists on the page. This feature is useful because some web servers return an HTTP 200 status code even though an error has occurred, and include an error message in the page content instead.
- The `collect`, `insert`, `stub`, and `update` fetch actions accept metadata as structured XML, as an alternative to a flat list of name and value pairs. For information about whether a connector supports these actions, refer to the Administration Guide.
- Elliptic Curve certificates and keys are supported, to enable the use of ECDSA and ECDH ciphers in TLS communications with other IDOL components.

### Resolved Issues

- The WKOOP component produced an unnecessary log file, `chrome_debug.log`.

## Resolved Issues

This section describes resolved issues in the IDOL Server installer.

- The IDOL Server installation program would terminate unexpectedly when run in text mode, unless the OEM installation type was selected.

# Requirements

This section describes the system requirements, supported platforms, and software dependencies for IDOL Server 12.2.0.

## Minimum System Requirements

The following are minimum system requirements for IDOL Server 12.2.0 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 12.2.0, or its components, on UNIX platforms, the server must have the following minimum versions of libraries:

- GLIBC\_2.3.2
- GLIBCXX\_3.4.20
- 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 12.2.0 on the Microsoft Windows operating system, you might need to update the Microsoft Visual C++ Redistributable packages. The IDOL Server installer includes the required redistributable files for Microsoft Visual C++ 2005, 2010, 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
Java	Windows, Solaris, Linux: JRE 8 or later
Browsers	<ul style="list-style-type: none"><li>• Internet Explorer 11</li><li>• Mozilla Firefox (latest version)</li><li>• Chrome (latest version)</li></ul>

## Supported Operating System Platforms

The following operating system platforms are available for IDOL Server 12.2.0.

- Windows x86 64
- Linux x86 64
- Solaris x86 64
- Solaris SPARC 64

The documented platforms are the recommended and most fully tested platforms for IDOL Server. The following sections provide more information about the most fully tested versions of these platforms.

### Windows

- Windows Server 2016 x86 64
- Windows Server 2012 x86 64
- Windows 7 SP1 x86 64
- Windows Server 2008 R2 x86 64
- Windows Server 2008 SP2 x86 64

### Linux

For Linux, the following lists the minimum recommended versions of particular distributions:

- Red Hat Enterprise Linux (RHEL) 6
- CentOS 6
- SuSE Linux Enterprise Server (SLES) 10
- Ubuntu 14.04
- Debian 7

**Solaris**

- Solaris 10
- Solaris 11

## 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.

## Connector Framework Server

### Deprecated Features

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

## Media Server

### 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 12.2.0 installation. For more information about upgrading the database schema, refer to the *Media Server Administration Guide*.

### Deprecated Features

Category	Deprecated Feature	Deprecated Since
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	12.0.0

	schema as records that provide the analysis results.	
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 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.  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

# 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*