

# IDOL Server

Software Version 12.12.0

## Release Notes



Document Release Date: June 2022  
Software Release Date: June 2022

## Legal notices

© Copyright 2022 Micro Focus or one of its affiliates.

The only warranties for products and services of Micro Focus and its affiliates and licensors (“Micro Focus”) are as may be set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Micro Focus shall not be liable for technical or editorial errors or omissions contained herein. The information contained herein is subject to change without notice.

## 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.

To check for updated documentation, visit <https://www.microfocus.com/support-and-services/documentation/>.

## Support

Visit the [MySupport portal](#) to access contact information and details about the products, services, and support that Micro Focus offers.

This portal also provides customer self-solve capabilities. It gives you a fast and efficient way to access interactive technical support tools needed to manage your business. As a valued support customer, you can benefit by using the MySupport portal to:

- View information about all services that Support offers
- Submit and track service requests
- Contact customer support
- Search for knowledge documents of interest
- View software vulnerability alerts
- Enter into discussions with other software customers
- Download software patches
- Manage software licenses, downloads, and support contracts

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 .....	5
<b>New in this Release .....</b>	<b>6</b>
Content Component .....	6
New in this Release .....	6
Resolved Issues .....	6
Category Component .....	6
New in this Release .....	6
Resolved Issues .....	7
Community Component .....	7
New in this Release .....	7
Resolved Issues .....	7
Connector Framework Server .....	7
New in this Release .....	7
Resolved Issues .....	7
Controller .....	8
New in this Release .....	8
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) .....	9
New in this Release .....	9
Resolved Issues .....	10

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

# 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 12.12.0.

### Content Component

#### New in this Release

- The Query action has a new parameter, PageInfo, that specifies whether to return the page numbers of pages that contain the query terms, within each result document. To use this feature your documents must have sections that represent pages and you must set the new parameter IndexSectionsAsPages to TRUE before indexing the documents.

#### Resolved Issues

- IDOL Content version 12.11 could leave temporary .data files in the status directory after indexing.
- When the results of the action GetQueryTagValues or GetTagValues were sorted with sort=NumberIncreasing or sort=NumberDecreasing, values starting with certain sequences of letters (such as "INF") could be ordered with the numeric values. These values are now returned after the numeric data, with other non-numeric values, as expected.
- The Highlight action could insert additional characters into the highlighted XML when the Links parameter contained overlapping (or identical) phrases where one phrase ended with another, for example links="great big fish" "big fish". This issue occurred when the Boolean and XMLFormat parameters were set to **true**.
- Failed language detection at index time could generate a large number of log messages. Missing languages are now reported at Full rather than Warning log level, and a missing General language type is only reported once per index action.
- **(Security update)** The third-party OpenSSL library has been upgraded to version 1.1.1n to resolve a security vulnerability, CVE-2022-0778.

### Category Component

#### New in this Release

There were no new features in Category Component version 12.12.0.

## Resolved Issues

- **(Security update)** The third-party OpenSSL library has been upgraded to version 1.1.1n to resolve a security vulnerability, CVE-2022-0778.

## Community Component

### New in this Release

There were no new features in Community Component version 12.12.0.

### Resolved Issues

- Community did not read the `SecurityToken*` configuration parameters from the [Security] section of the configuration file.
- **(Security update)** The third-party OpenSSL library has been upgraded to version 1.1.1n to resolve a security vulnerability, CVE-2022-0778.

## 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

- CFS includes a new import task (`AWSTranslate`) that can use the Amazon Web Services Translate service to translate the text in IDOL document content and metadata fields into other languages.
- CFS includes a new indexing library for sending data to Apache Kafka.
- The `send_email` Lua function can send e-mail using an SMTP server that requires authentication. The function has new `username` and `password` parameters. This feature is not available on FIPS platforms.

### Resolved Issues

- **(Security update)** The third-party OpenSSL library has been upgraded to version 1.1.1n to resolve a security vulnerability, CVE-2022-0778.

## Controller

### New in this Release

There were no new features in Controller version 12.12.0.

### Resolved Issues

- **(Security update)** The third-party OpenSSL library has been upgraded to version 1.1.1n to resolve a security vulnerability, CVE-2022-0778.

## Coordinator

### New in this Release

There were no new features in Coordinator version 12.12.0.

### Resolved Issues

- **(Security update)** The third-party OpenSSL library has been upgraded to version 1.1.1n to resolve a security vulnerability, CVE-2022-0778.

## Distributed Action Handler

### New in this Release

There were no new features in Distributed Action Handler version 12.12.0.

### Resolved Issues

- When handling DistributedCommands with an XSL template, DAH could exit unexpectedly.
- **(Security update)** The third-party OpenSSL library has been upgraded to version 1.1.1n to resolve a security vulnerability, CVE-2022-0778.

## Distributed Index Handler

### New in this Release

There were no new features in Distributed Index Handler version 12.12.0.



## Resolved Issues

- **(Security update)** The third-party OpenSSL library has been upgraded to version 1.1.1n to resolve a security vulnerability, CVE-2022-0778.

## File System Connector

### New in this Release

There were no new features in File System Connector version 12.12.0.

### Resolved Issues

- The connector could enter an infinite loop if a directory contained a symbolic link to its parent directory. The connector no longer follows symbolic links to directories that it has already processed.
- **(Security update)** The third-party OpenSSL library has been upgraded to version 1.1.1n to resolve a security vulnerability, CVE-2022-0778.

## Find

### New in this Release

There were no new features in Find version 12.12.0.

### Resolved Issues

- During the initial setup process, it was not possible to log out of the settings page properly after configuring Find with temporary credentials, and users would have to restart Find to log back in with the new credentials.

## HTTP Connector (Solaris only)

### New in this Release

There were no new features in HTTP Connector version 12.12.0.

## Resolved Issues

- **(Security update)** The third-party OpenSSL library has been upgraded to version 1.1.1n to resolve a security vulnerability, CVE-2022-0778.

## 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

There were no new features in IDOL Proxy Component version 12.12.0.

### Resolved Issues

- **(Security update)** The third-party OpenSSL library has been upgraded to version 1.1.1n to resolve a security vulnerability, CVE-2022-0778.

## IDOL Site Admin

### New in this Release

- You can now configure IDOL Site Admin to use a reverse proxy, by setting the `server.reverseProxy` system property. For more information, refer to the *IDOL Site Admin Administration Guide*.

### Resolved Issues

There were no resolved issues in IDOL Site Admin version 12.12.0.

## Knowledge Graph Component

### New in this Release

There were no new features in Knowledge Graph version 12.12.0.

## Resolved Issues

- **(Security update)** The third-party OpenSSL library has been upgraded to version 1.1.1n to resolve a security vulnerability, CVE-2022-0778.

## License Server

### New in this Release

There were no new features in License Server version 12.12.0.

### Resolved Issues

- **(Security update)** The third-party OpenSSL library has been upgraded to version 1.1.1n to resolve a security vulnerability, CVE-2022-0778.

## Media Server (Windows and Linux only)

### New in this Release

- To improve face recognition accuracy, Media Server can fine-tune the neural network that is used for face recognition, so that it is optimized for your training data. For more information about this feature, refer to the documentation for the new action `FinetuneFaceDatabase`.
- Improved OCR accuracy for some atypical images, including some cases where earlier versions of Media Server did not return any text.
- When you configure Media Server to output real-world coordinates by calculating the perspective during analysis, Media Server produces records for all recognized objects and vehicles. The first records in the `worldResult` track are delayed until the perspective has been calculated. Earlier versions of Media Server did not output records for objects and vehicles that were recognized before the projection was ready. There is also a new configuration parameter, `MinPerspectiveData`, so that you can configure the minimum number of data records that must be generated before attempting to calculate the perspective.
- The following speech-to-text language packs have been updated (for 16kHz broadband only). These are not included in the Media Server package but are available separately.

Improvements	Language pack
--------------	---------------

Updated with new language models that include terminology related to COVID	Danish (DADK)
	Dutch (NLNL)
	English - Australian (ENAU)
	Italian (ITIT)
	Polish (PLPL)
	Portuguese - Brazilian (PTBR)
	Romanian (RORO)
	Spanish (ESES)
	Spanish - Latin American (ESLA)
Improved accuracy	English - British (ENUK)
	French (FRFR)
	Japanese (JAJJ)
	Russian (RURU)

## Resolved Issues

- Using the actions `TestObjectClassRecognizerSnapshot` or `TestClassifierSnapshot`, or face recognition, on a GPU could cause subsequent actions to fail with the error "attempted to use too much GPU memory (maximum of one concurrent GPU training action)".
- Media Server could terminate unexpectedly when running OCR.
- **(Security update)** The third-party OpenSSL library has been upgraded to version 1.1.1n to resolve a security vulnerability, CVE-2022-0778.

## Query Manipulation Server Component

### New in this Release

There were no new features in Query Manipulation Server version 12.12.0.

### Resolved Issues

- **(Security update)** The third-party OpenSSL library has been upgraded to version 1.1.1n to resolve a security vulnerability, CVE-2022-0778.

- When applying a blacklist or whitelist rule to a query, QMS could remove certain elements of query syntax, such as field restrictions or explicit term weight modifiers.

## Statistics Server Component

### New in this Release

There were no new features in Statistics Server version 12.12.0.

### Resolved Issues

- **(Security update)** The third-party OpenSSL library has been upgraded to version 1.1.1n to resolve a security vulnerability, CVE-2022-0778.

## View Server Component

### New in this Release

- You can now configure View in Universal Viewing mode to send the `ReferenceField` parameter on the `GetContent` action that it sends to the document store to retrieve a document.

```
[UniversalViewing]  
DocumentStoreReferenceField=DRREFERENCE
```

This option can be useful if the reference in the front end, such as Find, is unique in the main field (for example DRREFERENCE), but might be associated with multiple documents in another field (for example DREROTPARENTREFERENCE). This parameter ensures that the document store searches for matches only in the correct reference field.

### Resolved Issues

- Some highlight parameters were not added correctly to internal links. This issue could cause content in embedded frames to display incorrectly.
- **(Security update)** The third-party OpenSSL library has been upgraded to version 1.1.1n to resolve a security vulnerability, CVE-2022-0778.

## Web Connector (Windows and Linux only)

### New in this Release

- The configuration parameter `DeleteOnServerErrorCodes` has been added, so that you can choose the HTTP response codes that cause a resource to be deleted from the IDOL index

when DeleteOnServerError=TRUE.

## Resolved Issues

- The connector could terminate unexpectedly when sending documents to IDOL.
- When StayOnSite=TRUE, the connector compared host/domain names case-sensitively and could incorrectly reject some URLs.
- The connector could take longer than expected to provide a response to View actions.
- Kerberos authentication could fail with Web Connector versions 12.8 to 12.11, when running on Linux.
- **(Security update)** The third-party OpenSSL library has been upgraded to version 1.1.1n to resolve a security vulnerability, CVE-2022-0778.

# Requirements

This section describes the system requirements, supported platforms, and software dependencies for IDOL Server 12.12.0.

## Minimum System Requirements

The following are minimum system requirements for IDOL Server 12.12.0 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 12.12.0, 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 12.12.0 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 Environment (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	<ul style="list-style-type: none"><li>• Mozilla Firefox (latest version)</li><li>• Chrome (latest version)</li></ul>

## Supported Operating System Platforms

IDOL Server 12.12.0 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) 7
- CentOS 7
- 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 NGramOrienta10nly configuration parameter. You must now use the equivalent NGramSentenceBrokenScriptOnly parameter instead.	12.7.0

## Education

### Deprecated Features

The following features have been deprecated.

Category	Deprecated Feature	Deprecated Since
Education SDK	<p>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.</p> <p>In the C API the following functions have been deprecated:</p> <ul style="list-style-type: none"><li>• EdkEngineCreate()</li><li>• EdkEngineCreateFromConfigFile()</li><li>• EdkSetLicenseKey()</li><li>• EdkSetLicenseKeyFromFile()</li></ul> <p>In the Java API the following have been deprecated:</p> <ul style="list-style-type: none"><li>• Both of the constructors for EDKEngine.</li></ul>	12.11

	<ul style="list-style-type: none"> <li>The setLicenseKey method of EDKEngine.</li> </ul> <p>In the .NET API, the following has been deprecated:</p> <ul style="list-style-type: none"> <li>The EDKFactory constructor: <code>public EDKFactory(string license_key_path)</code></li> </ul> <p>Micro Focus recommends supplying the license key as a string, and creating an Education engine by using an engine factory. For more information, refer to the API reference documentation.</p>	
.NET Education SDK	Education 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 [Education] section.	12.5

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

### 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	<p>The action parameter name, available on the actions AddStream, EditStream, GetStreamInfo, PreAllocateStorage, and RemoveStream. Micro Focus recommends that you use the parameter stream, instead.</p> <p>The action parameters OldName and NewName, on the action RenameStream. Micro Focus recommends that you use the parameters Stream and NewStream instead.</p>	11.4.0

### Removed Features

The following deprecated features have been removed.

- The RestrictToInputRegion configuration parameter. Micro Focus recommends setting Region=Input instead.
- The following configuration parameters:
  - BorderUnit (Crop transformation)
  - CharHeightUnit (Number plate recognition, text detection)
  - PathUnit (Path alerts)
  - RegionUnit
  - SizeUnit (Face detection, object recognition, persistent change detection)
  - TripwireUnit (Tripwire alerts)

# Documentation

The following documentation was updated for IDOL Server version 12.12.0.

- *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*