IDOL Server

Software Version 12.5.0

Release Notes

Micro Focus®

Legal notices

Copyright 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:

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

Many areas of the portal require you to sign in. If you need an account, you can create one when prompted to sign in. To learn about the different access levels the portal uses, see the Access Levels descriptions.

Contents

Introduction to IDOL 12

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

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

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

- **IDOL Text Index Encryption**. You can now encrypt your IDOL text data index, using AES encryption.

- **Geospatial Index**. The new IDOL text geospatial index improves the handling of geographical search. You can now index geographical regions, as well as points, and the new index supports several new FieldText operators for geographical searches.

- **Dynamic Corpus Functionality**. Web Connector has new functionality to allow you to embed IDOL analytics into the decision making during the data collection process. It can now use custom algorithms to choose whether to ingest a page based on the result of a Lua script.

- **Improved embedded Web browser**. The Web Connector has a new and improved embedded Web browser.

IDOL NiFi Ingest

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

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

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

New in this Release

The following sections describe the enhancements for the components of IDOL Server version 12.5.0.

Content Component

New in this Release

- The Content component ZIP package now includes the files required to run the embedded Content service and processor in IDOL NiFi Ingest. These files are in the /nifi directory of the ZIP. For more information, refer to the IDOL NiFi Ingest documentation.

- The reference index has been optimized to reduce the on-disk footprint when indexing multi-section documents.

  > **NOTE:** When you upgrade an existing Content installation to version 12.5.0, the reference index is automatically regenerated in the new format when you start Content.

- You can now compress an individual backup by setting the `Compress` parameter on the `DREBACKUP` action, which overrides the value `BackupCompression` configuration parameter.

- When using GSS authentication, you can now log additional information about GSS authentication failures for ACI and service actions by setting the new `LogGSSFailures` parameter to **True** in the `[Server]` or `[Service]` section.

- When using GSS authentication, you can now log additional information about GSS authentication failures for index actions by setting the new `LogGSSFailures` parameter to **True** in the `[IndexServer]` section.

Resolved Issues

- When index encryption was enabled, value mapping files were sometimes unnecessarily rewritten, reducing the indexing speed.

- Sending multiple `DREREPLACE` index actions against the same document reference to update Index type fields could result in unexpectedly large growth in index size.

- Content could log spurious messages when ACI actions included references that happened to match uncommitted documents. For example `expected to read 2 from ref nodetable, actually read = 0`.

- A document could become temporarily irretrievable if its compression state was altered by a `DREREPLACE` index action.

- When index encryption was enabled, having a large number of distinct terms (that is, if the total size of `diskindex/dbc*.db` files was more than 2GB), Content could produce spurious warnings when flushing data to disk, for example `unable to seek within bigfile`. An extremely large number of terms (dbc files larger than 4GB) could sometimes result in data loss.

- When index encryption was enabled, term data could be lost if a `DRESYNC` operation occurred after only a single term had been indexed into an empty engine.

- When index encryption was enabled, queries could log a spurious warning `Chunked term ... moved unexpectedly`.

- When the persistent term cache was enabled, terms with a very large number of total occurrences (around 500 million) could cause an interruption of service when flushing the index to disk.

- The mapped security library failed to process some Access Control Lists (ACLs) of the type `AUTONOMY_SECURITY_V4_EXCHANGE_MAPPED` which were generated by the Exchange Web Service Connector.

- When regenerating numeric, numeric date, or bitfield type fields, if there were no fields of the specified type, Content could exit unexpectedly.

- The Chinese sentence breaking library failed to reinitialize after a restart.

  > **NOTE:** To resolve this issue, ensure that you copy the `chinesebreaking` sentence breaking library (DLL or SO) from the Content release package to your langfiles folder.

- For languages where NGram sentence breaking was configured, query summary phrases returned as a sequence of NGrams. Content now returns values as closely as possible to their original appearance (for example 概略報告 instead of 概略 略報 報告).

Category Component

New in this Release

- When using GSS authentication, you can now log additional information about GSS authentication failures for ACI and service actions by setting the new `LogGSSFailures` parameter to **True** in the `[Server]` or `[Service]` section.

Resolved Issues

There were no resolved issues in Category Component version 12.5.0.

Community Component

New in this Release

- When using GSS authentication, you can now log additional information about GSS authentication failures for ACI and service actions by setting the new `LogGSSFailures` parameter to **True** in the `[Server]` or `[Service]` section.

Resolved Issues

There were no resolved issues in Community Component version 12.5.0.

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

- CFS includes a new import task (`NistRdsFilter`) and Lua function (`filter_nist_rds`), to compare the checksums of files with NIST RDS hash sets. You can then filter out any files that originate from operating systems or common application software.

- When using GSS authentication, you can now log additional information about GSS authentication failures for ACI and service actions by setting the new `LogGSSFailures` parameter to **True** in the `[Server]` or `[Service]` section.

Resolved Issues

There were no resolved issues in Connector Framework Server version 12.5.0.

Controller

New in this Release

- When using GSS authentication, you can now log additional information about GSS authentication failures for ACI and service actions by setting the new `LogGSSFailures` parameter to **True** in the `[Server]` or `[Service]` section.

Resolved Issues

There were no resolved issues in Controller version 12.5.0.

Coordinator

New in this Release

- When using GSS authentication, you can now log additional information about GSS authentication failures for ACI and service actions by setting the new `LogGSSFailures` parameter to **True** in the `[Server]` or `[Service]` section.

Resolved Issues

There were no resolved issues in Coordinator version 12.5.0.

Distributed Action Handler

New in this Release

- When using GSS authentication, you can now log additional information about GSS authentication failures for ACI and service actions by setting the new `LogGSSFailures` parameter to **True** in the `[Server]` or `[Service]` section.

Resolved Issues

- When using DAH in non-mirror mode, a `TermExpand` action that used the `FuzzyN` expansion returned an `ERRORPARAMMISSING` error.

- When requesting JSON response format, certain response elements (such as `autn:querysummary`, `autn:qs`, `autn:element` on a `Query` action response) were returned as objects rather than single-element arrays, even when using json/1 format.

Distributed Index Handler

New in this Release

- When using GSS authentication, you can now log additional information about GSS authentication failures for ACI and service actions by setting the new `LogGSSFailures` parameter to **True** in the `[Server]` or `[Service]` section.

- When using GSS authentication, you can now log additional information about GSS authentication failures for index actions by setting the new `LogGSSFailures` parameter to **True** in the `[IndexServer]` section.

Resolved Issues

There were no resolved issues in Distributed Index Handler version 12.5.0.

File System Connector

New in this Release

There were no new features in File System Connector version 12.5.0.

Resolved Issues

- Regular expressions for matching paths were always case-sensitive (setting `PathRegexCaseInsensitive=TRUE` had no effect).

- The `update` fetch action ignored any ACL updates specified in the `IdentifiersXML` action parameter and did not update Access Control Lists.

Find

New in this Release

- Improved responsiveness when you have a large IDOL index and use parametric filters to refine search results.

- Find can use custom viewing error responses when you configure them in your IDOL View Component.

  > **NOTE:** You do not need to upgrade or modify your Find setup to use custom view errors. For more information, refer to the *IDOL View Component Reference*.

Resolved Issues

- A user could not filter search results using numeric or numeric date fields unless they were a member of the `FindBI` role.

- A CSV file produced by exporting query results would be empty when all of the documents in the result set were secured using mapped security.

HTTP Connector (Solaris only)

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

IDOL Admin

New in this Release

There are no new features in IDOL Admin version 12.5.0.

Resolved Issues

- When using IDOL Admin with Community, changing a user password could fail.

IDOL Proxy Component

New in this Release

- When using GSS authentication, you can now log additional information about GSS authentication failures for ACI and service actions by setting the new `LogGSSFailures` parameter to **True** in the `[Server]` or `[Service]` section.

Resolved Issues

- IDOL Proxy could report unhandled actions in the `GetLicenseInfo` response. This behavior could prevent external applications from working correctly in some circumstances. For example, the `admin.dat` did not load correctly from an IDOL Proxy instance configured in distributed mode.

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

- When using GSS authentication, you can now log additional information about GSS authentication failures for ACI and service actions by setting the new `LogGSSFailures` parameter to **True** in the `[Server]` or `[Service]` section.

Resolved Issues

There were no resolved issues in Knowledge Graph version 12.5.0.

License Server

New in this Release

- When using GSS authentication, you can now log additional information about GSS authentication failures for ACI and service actions by setting the new `LogGSSFailures` parameter to **True** in the `[Server]` or `[Service]` section.

Resolved Issues

There were no resolved issues in License Server version 12.5.0.

Media Server (Windows and Linux only)

New in this Release

Surveillance

- Media Server includes many new features that make it easier to use for surveillance purposes. Building on improvements to object class recognition that were released in Media Server 12.4, Micro Focus now provides a pre-trained recognizer that you can use to identify and track people, bicycles, motorbikes, cars, trucks, and buses as they move through a scene. Although object class recognition usually requires a visual license, you can use this recognizer with a surveillance license.

    There are new engines, including:

    - `AlertPath` - Generates an alert when an object follows a specified path through the scene.

    - `AlertRegion` - Generates an alert when an object is present within a region for some amount of time.

    - `AlertStationary` - Generates an alert when an object is stationary for some amount of time.

    - `AlertTripwires` - Generates an alert when an object crosses a tripwire.

    - `Count` - Counts the number of objects that are present within the scene or a region of the scene.

    - `TrafficLight` - Determines the state of traffic lights, so that you can detect vehicles failing to stop for a red light.

- ○ `SceneFilter` - Filters the input from a camera, to remove records that do not show the intended scene. You can use this engine to filter out records, and therefore stop analysis, when a PTZ-capable CCTV camera has been moved by the operator.

Although similar features are available through the existing scene analysis engine, the new engines allow you to use the superior tracking offered by object class recognition.

Media Server 12.5 also includes a new graphical user interface that you can use to help build your surveillance session configurations. The graphical interface automatically configures event processing tasks to filter the analysis results to your requirements. The new interface is available through the existing `action=GraphicalUserInterface`.

Media Server Core

- Files that are required by a session configuration, such as Lua scripts and XSL templates, can be sent to Media Server with the process action. Previously, these files had to be present on the Media Server host machine or in a shared network folder. To include additional files in a process request, use the new action parameters `AdditionalData` and `AdditionalDataLabels`.

- Session configurations can include groups of useful tasks from other files. This means that you can build groups of related tasks and re-use them across many session configurations.

- Media Server has new actions to store and retrieve the latest records that have been processed. The new actions are `KeepLatestRecords` and `GetLatestRecords`. These can be used by front-end applications to provide a preview of what Media Server has processed.

- You can pause the training of image classifiers and object class recognizers, without losing any of the progress that has been made. To pause training, use the new actions `PauseBuildClassifier` and `PauseBuildObjectClassRecognizer`.

- Media Server requires much less time to re-train a first-generation object class recognizer, after you add additional training.

- When using GSS authentication, you can now log additional information about GSS authentication failures for ACI and service actions by setting the new `LogGSSFailures` parameter to **True** in the `[Server]` or `[Service]` section.

Ingest

- The proxy track produced by the image ingest engine now provides the horizontal and vertical resolution of the media source (if the source includes this information).

Analysis

- Optical Character Recognition supports Thai.

- Optical Character Recognition provides information about tables that were detected in images. The OCR engine has a new output track named `TableResult` that provides information about the structure of tables and allows you to reconstruct them. Media Server includes an example session configuration and XSL transform that produce HTML tables from images passed through OCR.

Event Stream Processing

- The `And` engine now accepts two or more input tracks (previously only two input tracks were permitted).

- The `Filter` engine can filter records by duration. It has new configuration parameters, `MinDuration` and `MaxDuration`. For example, you can filter a track of recognized objects so that it only contains results for those that are on-screen for between 5 and 30 seconds.

- Media Server has a new ESP engine (`Type=CombineWithLast`) to combine a record in one track with the most recent record from another track.

Resolved Issues

- `BuildClassifier` and `BuildObjectClassRecognizer` actions did not stop in response to `action=QueueInfo&QueueAction=stop`.

- Object class recognizers had to be re-trained when a training option (that had not been set) was set to its default value.

Query Manipulation Server Component

New in this Release

- When using GSS authentication, you can now log additional information about GSS authentication failures for ACI and service actions by setting the new `LogGSSFailures` parameter to **True** in the `[Server]` or `[Service]` section.

Resolved Issues

- When requesting JSON response format, certain response elements (such as `autn:querysummary`, `autn:qs`, `autn:element` on a `Query` action response) were returned as objects rather than single-element arrays, even when using json/1 format.

Statistics Server Component

New in this Release

- When using GSS authentication, you can now log additional information about GSS authentication failures for ACI and service actions by setting the new `LogGSSFailures` parameter

to **True** in the `[Server]` or `[Service]` section.

Resolved Issues

There were no resolved issues in Statistics Server version 12.5.0.

View Server Component

New in this Release

- You can now use universal viewing with a NiFi installation, by setting the new configuration parameter `ConnectorGroupField` in the `[UniversalViewing]` section. For example:

  ```
  [UniversalViewing]
  ConnectorGroupField=CONNECTOR_GROUP
  ```

- In universal viewing, you can now configure SSL settings separately for Distributed Connector, by setting the `DistributedConnectorSSLConfig` parameter in the `[UniversalViewing]` section.

- You can now view files that are protected by Azure encryption. To configure this option, you must set `DocumentDecryptionSettings` to the name of a configuration section where you set the decryption settings, and set the RMS client and user information. For more information, refer to the *IDOL View Component Reference*.

- You can now configure View to display custom HTML for error responses to the View action when `NoACI` is set to **True**. You configure these errors in the `[CustomViewingErrors]` configuration section. This option allows you to display more descriptive messages in your front end application (for example Find) when a conversion fails. For more information, refer to the *IDOL View Component Reference*.

  A set of basic HTML responses is now included in the IDOL View component installation. Some of these are configured in the default View configuration file.

- When using GSS authentication, you can now log additional information about GSS authentication failures for ACI and service actions by setting the new `LogGSSFailures` parameter to **True** in the `[Server]` or `[Service]` section.

Resolved Issues

There were no resolved issues in View Component version 12.5.0.

Web Connector (Windows and Linux only)

New in this Release

- The connector can obtain details about your HTTP proxy from the system. Instead of setting `ProxyHost`, `ProxyPort`, `ProxyUsername`, and `ProxyPassword`, you can set the new configuration parameter `UseSystemProxy` to `TRUE`.

Resolved Issues

- Web Connector could fail to process large XML files.
- Web Connector did not stop correctly.

Requirements

This section describes the system requirements, supported platforms, and software dependencies for IDOL Server 12.5.0.

Minimum System Requirements

The following are minimum system requirements for IDOL Server 12.5.0 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 12.5.0, 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 12.5.0 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) 8
IDOL Site Admin	Java runtime environment (JRE) 8 or 11
Browsers	- Internet Explorer 11 - Mozilla Firefox (latest version) - Chrome (latest version)

Supported Operating System Platforms

IDOL Server 12.5.0 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)

- 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.

Eduction

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.	12.5.0
edktool	The `OutputScores` and `OutputSimpleMatchInfo` configuration parameters.	12.5.0
edktool	XML configuration files are now deprecated. Use CFG format configuration files instead.	12.5.0
edktool	Eduction on IDX documents. Add plain text instead. The following configuration parameters that apply only to IDX are also deprecated as part of this change: • `AllowDuplicates` • `CantHaveFieldCSVs` • `Databases` • `DocumentDelimiterCSVs`	12.5.0

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

Deprecated Features

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
Training database	Setting the `SyncInterval` parameter as a number of milliseconds. Micro Focus recommends setting this parameter as a time duration instead.	12.4.0
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
Barcode analysis	The `ImageBinarizeMethod` configuration parameter.	12.2.0
Speech-to-text	The training action `SyncCustomSpeechLanguageModels`. Micro Focus recommends that you use the new action `SyncCustomSpeechResources` instead.	12.2.0
Server / Service	The `AdminClients`, `QueryClients`, `ServiceControlClients`, and `ServiceStatusClients` configuration parameters. Micro Focus recommends that you use authorization roles instead.	11.5.0
Rolling buffer	The action parameter `name`, available on the actions `AddStream`, `EditStream`, `GetStreamInfo`, `PreAllocateStorage`, and `RemoveStream`. Micro Focus recommends that you use the parameter	11.4.0

	`stream`, instead. The action parameters `OldName` and `NewName`, on the action `RenameStream`. Micro Focus recommends that you use the parameters `Stream` and `NewStream` instead.	

Documentation

The following documentation was updated for IDOL Server version 12.5.0.

- *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 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*