IDOL Server

Software Version 12.6.0

Release Notes

MICRO FOCUS

Document Release Date: June 2020
Software Release Date: June 2020

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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.

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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 12.6.0.

Content Component

New in this Release

- You can now configure Content to convert incoming index actions to metadata updates when a single copy exists and no `Index` or `SourceType` fields have been changed. To turn on this option, set the new `UpdateExisting` parameter to `True` in the `[Server]` section of your configuration file. This option can reduce the number of disk updates during indexing.
- For languages that are configured to use a custom stemming library with deferred transliteration, exact phrase searches (that is, terms in quotation marks `""` in the query text) are now insensitive to accents, as long as the accented and unaccented forms have the same stem.

  > **NOTE:** To ensure consistent query behavior after you upgrade Content, you must reindex any existing content in languages that are configured to use custom stemming and deferred transliteration.

- The `ARANGE FieldText` operator has been optimized when all the fields referenced are `MatchType`, or `ParametricType` with `ParametricNumericMapping` enabled.
- When index encryption is enabled, performance has been improved for sending index actions that add values in `MatchType` or `ParametricType` fields.
- The efficiency of adding or updating document content to an encrypted index has been improved. This change particularly affects encrypted engines that have a large number of terms in the unstemmed subindex.
- The performance for DREFUZZY matching for non-alphanumeric terms (such as names) has been improved.
- You can now configure Content to rank results higher when they contain matches for query terms near the beginning of the document text, by using the new `BoostWindowTermsFromStart` parameter in the `[Server]` section of your configuration file.

Resolved Issues

- Regenerating or validating the reference index could be extremely slow in large indexes when many documents contained the same value in a reference-type field.

- On Microsoft Windows platforms, when a virus scanner was active in the index directory, Content could exit unexpectedly during Bitfield regeneration.

Category Component

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

Community Component

New in this Release

- The Community component can now start up without its supporting Content components (the data index and the agentstore). In this case, Community logs a warning that indicates that some functionality might not be available until Content becomes available.

  When you have configured `AutoSetDatabases` for `[Role]`, Community periodically refreshes the value of the databases privilege for the default role. By default, it refreshes the value every 60 seconds. You can modify this interval by setting the new `RefreshDBPrivilegesCycleDuration` configuration parameter in the `[Role]` section.

Resolved Issues

- On UNIX platforms, Community was unable to communicate correctly with LDAP over SSL/TLS. This issue affected Community versions 12.3.0 to 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

- Eduction can output the number of matches found for each entity, instead of the matched text, position, and score. To use this feature set the new configuration parameter `CountOutput` to `TRUE`.

- You can configure the depth at which CFS stops extracting sub-files from a container, by setting the new parameter `ImportExtractMaxDepth`. The default value is infinite, which matches the behavior of earlier versions of CFS.
- You can configure WKOOP HTML extraction so that it does not download certain resources, such as scripts or advertisements, that appear in block lists. This can result in fewer HTTP requests, increase processing speed, and prevent unwanted content from contaminating your IDOL index. To use this feature, set the new configuration parameter `BlockingFiltersDirectory`.
- New import tasks and Lua functions to encrypt and decrypt files using Micro Focus Voltage SmartCipher.

Resolved Issues

There were no resolved issues in Connector Framework Server version 12.6.0.

Controller

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

Coordinator

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

Distributed Action Handler

The Distributed Action Handler was updated in line with other IDOL components. There were no new features or resolved issues.

Distributed Index Handler

New in this Release

- You can now use the `EngineManagement` action to modify the host and port of a DIH child server, with `EngineAction` set to **`Edit`**.
- In Consistent Hashing distribution mode, when document replicas are configured, you can now

rebuild a lost child server by sending the `DREREDISTRIBUTE` index action with the new `RebuildEngine` parameter set to the engine ID of the child server that you want to rebuild.

If you have configured more than one replica, you can set `RebuildEngine` to a comma-separated list of engine IDs.

Resolved Issues

There were no resolved issues in Distributed Index Handler version 12.6.0.

File System Connector

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

Find

New in this Release

- For parametric field filters, Find now has a button to select or deselect all loaded values at once.
- You can now use ControlPoint to apply a policy to documents that were returned by a search (unsaved, saved, or a snapshot). You can configure the connection to ControlPoint on the Settings page. To use this feature, you must have ControlPoint version 5.9 or later.
- A new document selection filter has been added, to allow you to manually deselect documents to exclude them from a search. The `documentSelectionFilter` option has been added to the `uiCustomization.filterOrder` property in the default Find configuration file. If you are upgrading an existing installation, Find will automatically add the new option to the end of the `uiCustomization.filterOrder` property.

Resolved Issues

- The HTTP OPTIONS method has been disabled.

HTTP Connector (Solaris only)

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

IDOL Admin

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

IDOL Proxy Component

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

IDOL Site Admin

New in this Release

There were no new features in IDOL Site Admin version 12.6.0.

Resolved Issues

- The HTTP OPTIONS method has been disabled.

Knowledge Graph Component

The Knowledge Graph Component was updated in line with other IDOL components. There were no new features or resolved issues.

License Server

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

Media Server (Windows and Linux only)

New in this Release

- Media Server output is restricted to specific directories. The new configuration parameter `AllowedEngineOutputDirectories`, in the `[Paths]` section of the configuration file, specifies a list of directories that Media Server engines can write to. For backwards compatibility, `AllowedEngineOutputDirectories` has no default value and engines can write to any directory. A default value might be added in a future release.
- You can add custom metadata to audio clips (audio matching), speakers (speaker identification), and image hashes in your training database. The custom metadata is included in records output by Media Server when an audio clip, speaker, or image is recognized. The image comparison, image hash, and speaker identification analysis tasks can be configured to use only reference images, image hashes, and speakers that have specific metadata.

Analysis

- Optical Character Recognition is faster, compared with Media Server 12.5, when processing multi-page images and documents with `NumParallel` set to any value greater than `1`.
- When Object Class Recognition is used for surveillance, Media Server is better at tracking objects near the edges of the scene.
- Vehicle make and model recognition uses a neural network to identify the vehicle within the image or video frame. Results from vehicle recognition now describe the vehicle type (bus, car, motorcycle, or truck) and the position of the vehicle in the scene. This feature significantly increases accuracy when color clustering is used to identify the color of each vehicle. Media Server includes a new color dictionary (`weightedcarcolors.dat`) that is optimized for analyzing regions derived by the neural network.
- Media Server has a new analysis engine, `Type=PersistentChangeDetection`, that detects moving objects and generates an alert when an object becomes stationary and remains stationary. In surveillance deployments you can use this engine to detect dropped or abandoned bags.
- Number plate recognition outputs the direction and speed (in pixels moved per second) of recognized number plates.
- When you do not set the `MinLuminance` parameter in a traffic light analysis task, the minimum luminance is calculated automatically based on the ingested video and the regions that you define. In previous versions of Media Server this parameter had a fixed default value.

Encoding

- The MJPEG encoder supports a new parameter, `Access-Control-Allow-Origin`, so that you can set the value of the `Access-Control-Allow-Origin` response header that is returned when

the MJPEG stream is requested.

User Interfaces

- The Media Server graphical user interface includes a new "configuration builder" page to create and modify session configurations. The interface performs useful functions such as validating the values of configuration parameters. If you change the name of a task, it is updated throughout the configuration (for example where it is used as the input for subsequent tasks). The interface does not support partial configurations.
- When you build a surveillance configuration in the Media Server graphical user interface, you can choose an image to be the default scene image. This is included in the zip package when you export a configuration, and is imported along with the configuration settings. When a default image is available you can review the tripwires and regions that are defined in the configuration without having to re-ingest the source media.
- When you build a surveillance configuration, the Media Server graphical user interface can show all of your tripwires or regions simultaneously.

Miscellaneous

- Media Server supports a new Lua function, `drawText`, to draw text on images, video frames, and video overlays.
- The scene filter engine has new parameters so that you can set the threshold at which Media Server begins filtering video frames.

Resolved Issues

- In some circumstances the `AlertPath` engine could use an excessive amount of memory and cause Media Server to terminate unexpectedly.

Query Manipulation Server Component

New in this Release

- You can now use explicit profile information for a user to activate particular QMS rules. The explicit profile information is stored in the IDOL Community Component. To activate explicit profiling, you use the new `ExplicitProfiling` parameter in your `Query` action, along with the `Username` parameter to specify the user.

  For more information about explicit profiling, refer to the *QMS Administration Guide* and the *QMS Reference*.

  > **IMPORTANT:** As part of this change, all rules now require the `QMSAGENTBOOL` parameter.

> Whitelist and blacklist rules did not previously require this parameter.
>
> When you upgrade to QMS version 12.6.0, you must add the `QMSAGENTBOOL` parameter to your whitelist and blacklist rules, and set it and the `DRECONTENT` field to the title of the rule. For more information, refer to the QMS Administration Guide section about creating blacklist and whitelist rules.

Resolved Issues

There were no resolved issues in Query Manipulation Server version 12.6.0.

Statistics Server Component

The Statistics Server Component was updated in line with other IDOL components. There were no new features or resolved issues.

View Server Component

New in this Release

- You can now configure View to redact information in the documents that it converts before it returns them, for example to obscure any PII. View uses Eduction to redact information. To configure redaction, set the `DocumentRedactionSettings` configuration parameter in the `[Viewing]` section to the name of a configuration section that contains Eduction settings.

Resolved Issues

There were no resolved issues in View Component version 12.6.0.

Web Connector (Windows and Linux only)

New in this Release

- You can configure Web Connector so that it does not download certain resources, such as scripts or advertisements, that appear in block lists. This can result in fewer HTTP requests, reduce the

amount of time required for a synchronize task, and prevent unwanted content from contaminating your IDOL index. To use this feature, set the new configuration parameter `BlockingFiltersDirectory`.

- You can configure the connector to ignore robots protocol (robots.txt) errors by setting the new configuration parameter `IgnoreRobotProtocolErrors=TRUE`.

Resolved Issues

- Orphaned WKOOP (embedded browser) processes could continue running for some time if Web Connector terminated unexpectedly.

Requirements

This section describes the system requirements, supported platforms, and software dependencies for IDOL Server 12.6.0.

Minimum System Requirements

The following are minimum system requirements for IDOL Server 12.6.0 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 12.6.0, 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 12.6.0 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 12.6.0 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.
- ACI Encryption has been deprecated. Instead of using ACI encryption, Micro Focus recommends configuring Secure Socket Layer (SSL) connections between ACI servers and applications.

  You can use GSS authorization without using ACI encryption by configuring the `GSSServiceName` and `RequireGSSAuth` parameters.

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

Media Server

- The value of the existing configuration parameter `AllowedOutputDirectoryCSVs`, in the `[Server]` section of the configuration file, can be applied to the `CreateClip` action and is applied to training actions that export database files. In previous versions of Media Server, these actions could write to any directory. For backwards compatibility this restriction is not applied to the `CreateClip` action unless the new parameter `AllowedEngineOutputDirectories` is set, but this exception might be removed in future.

Deprecated Features

Category	Deprecated Feature	Deprecated Since
Audio Matching	The output of audio matching has changed, to be more consistent with the output from other analysis tasks. The following output fields are deprecated: • `identifier` (use `identity/identifier` instead) • `database` (use `identity/database` instead) • `score` (use `identity/confidence` instead)	12.6.0
Speaker ID	The output of speaker identification has changed, to	12.6.0

	be more consistent with the output from other analysis tasks. The following output fields are deprecated: • `confidence` (use `identity/confidence` instead)	
Databases	The `ODBCDriverManager` 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 `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
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 `stream`, instead. The action parameters `OldName` and `NewName`, on the action `RenameStream`. Micro Focus recommends that you use the parameters `Stream` and `NewStream` instead.	11.4.0

Removed Features

The following deprecated features have been removed:

- The `ImageBinarizeMethod` configuration parameter, from the Barcode analysis engine.
- The training action `SyncCustomSpeechLanguageModels`. Micro Focus recommends that you use the action `SyncCustomSpeechResources` instead.

Documentation

The following documentation was updated for IDOL Server version 12.6.0.

- *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*