

IDOL Server

Software Version 12.x

IDOL 12 Upgrade Technical Note



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Contents

Introduction	5
Licenses	6
IDOL NiFi Ingest	7
Connectors	8
Upgrade the Text Index	9
Upgrade from IDOL 11.x	9
Upgrade from IDOL 10.x	9
Upgrade from IDOL 7.x	9
Media Server	11
JSON Response Formats	12
Authorization Roles	13
Send documentation feedback	15

Introduction

IDOL 12 represents a significant advance in the progression of IDOL Server. Many of the changes encapsulate the functional and architectural improvements and optimizations in the product over recent years. It also includes some significant new functionality and architectural changes, including:

- **IDOL NiFi Ingest.** NiFi Ingest is a new way to configure and manage your ingestion stream, by using an Apache NiFi user interface. It is intended as an alternative to the Connector Framework Server. See [IDOL NiFi Ingest, on page 7](#).
- **IDOL Audio Analysis** functionality is now available in Media Server, so that you do not need to install IDOL Speech Server separately. See [Media Server, on page 11](#).

NOTE:

As a result of this change, IDOL Speech Server is not available separately in version 12.x.

- **IDOL Text Index Encryption.** You can now encrypt your IDOL text data index, using AES encryption. See [Upgrade the Text Index, on page 9](#).

The simplest way to obtain the new functionality is to create a fresh install of IDOL 12, and activate any functionality that is appropriate for your use case. In some cases, you can perform upgrades of individual components.

The following sections describe some of the things you must consider when you upgrade from IDOL 11.x to 12.x.

For information about general IDOL Server component upgrades, refer to *IDOL Expert*.

Licenses

In general, upgrading from IDOL Server version 11.x to 12.x does not require a new license. However, some new functionality available in IDOL 12.x requires an updated license.

If you have an OEM license, you must obtain a new license for IDOL 12.x.

IDOL Server version 10.0.0 and later cannot be run using an IDOL7 license. Please contact Autonomy support to obtain an IDOL10 license.

IDOL NiFi Ingest

The IDOL 12.x framework 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 (CFS). You can run any IDOL 12.x connector with either CFS or NiFi Ingest.

To update your system to use IDOL NiFi Ingest, you must install the new framework and update your connectors to point to the new ingestion stream.

While NiFi Ingest offers like for like functionality with CFS, there is currently no way to load a CFS configuration into it. However, designing and configuring a flow is simple and quick, and it is straightforward to implement the ingestion flow from your existing setup.

For more information, refer to the *IDOL NiFi Ingest Help*.

Connectors

You can run IDOL 12.x connectors with either Connector Framework Server (CFS) or IDOL NiFi Ingest.

To upgrade connectors with an existing CFS installation, you can install a new version of the connector and update your configuration to include your existing tasks.

To upgrade connectors to use IDOL NiFi Ingest, you must set up your ingestion stream with NiFi and then configure your connectors to send data to NiFi Ingest. For more information, refer to the *IDOL NiFi Ingest Administration Guide*.

Upgrade the Text Index

The simplest way to upgrade the IDOL Content component index is to index data into a fresh installation of IDOL 12, while also activating any further functionality that is appropriate for your use case. However, IDOL 12 is also fully compatible with existing installations and indexes, so you do not need to reindex, as long as you include certain configuration settings before you run the IDOL 12 executable.

Upgrade from IDOL 11.x

There are no new configuration changes required for compatibility when upgrading from an IDOL 11.x index to an IDOL 12.x index, unless you want to activate new functionality.

IMPORTANT:

If you want to use the new index encryption functionality with IDOL 12.x, you must reindex your data to ensure that the encryption applies to your whole index. If you turn on encryption for an existing index, Content encrypts new data in the main index, while leaving existing content unencrypted.

To ensure that all your data is encrypted, Micro Focus recommends that you reindex your data into an empty index.

For more information about index encryption, refer to the *IDOL Server Administration Guide* and the *IDOL Server Reference*.

As with all IDOL 12.x components, if you use JSON response formats, you might need to modify your front end applications, or configure the IDOL Content component to use the older response format. See [JSON Response Formats, on page 12](#).

Upgrade from IDOL 10.x

If you upgrade an existing index by replacing the IDOL 10.x executable files with newer 12.x executables, you might need to make some modifications to your configuration file.

You must add the following configuration parameter to the Content component configuration file unless a different value is already present. If you create a new IDOL index, you can ignore this step.

```
[Server]  
ParametricMaxPairsPerDocument=104858
```

Upgrade from IDOL 7.x

If you upgrade an existing index by replacing the IDOL 7.x executable files with newer 12.x executables, you might need to make some modifications to your configuration file.

You must add the following configuration parameters to the Content component configuration file unless a different value is already present. If you create a new IDOL index, you can ignore the following steps.

```
[Server]
RepositoryStorage=FALSE
SplitNumbers=TRUE
DiskHash=1000000
RefHashes=10000000
IndexFieldChecksum=TRUE
BestTermCaching=TRUE
ParametricMaxPairsPerDocument=104858
```

Media Server

Media Server version 12.x now incorporates the audio analysis functionality so that you do not need to install IDOL Speech Server separately. As a consequence, IDOL Speech Server is not available separately for versions of IDOL after 11.x.

These changes mean that IDOL Media Server 12.0 has significant changes to the configuration and installation files to incorporate the audio analysis functionality. To upgrade Media Server to 12.x, you must create a new installation of the component, and update the configuration file to include any functionality that is appropriate for your use case.

JSON Response Formats

IDOL 12.x includes changes to the standard JSON response format that IDOL components use.

The new version of the JSON response format returns single-element lists as arrays, for consistency with multiple-element lists.

There is also a new **simplejson** format, which omits `auth:` prefixes in node names, and does not use `$` nodes to represent XML nodes unless the equivalent XML node contains attributes.

The `ResponseFormat` standard action parameter has several new options to allow you to use these new formats, or the older formats. There is also a configuration parameter, `JSONFormat`, to allow you to choose the option to use when you set `ResponseFormat` to **json** (the existing value).

In the default IDOL component configuration for IDOL 12.x, setting `ResponseFormat` to **json** uses the new response format. If you use a custom user interface with IDOL, you might need to update it to use the new format, or modify your IDOL configuration to enable compatibility mode.

To configure your IDOL components to use a compatibility mode that uses the older JSON format, set the following value in the component configuration file:

```
[Server]
JSONFormat=json/0
```

For more information about JSON response formats, refer to your component Reference.

NOTE:

The standard IDOL user interfaces, such as Find, IDOL Data Admin, IDOL Admin, and IDOL Site Admin, have been updated to accept both the new and the old JSON format. You must upgrade these interfaces to 12.x if you want to use the new formats.

Authorization Roles

IDOL 11.4 introduced a new way of specifying user permissions for your IDOL components, in the Authorization Roles configuration. This method allows you to provide permissions to users based on client IP, SSL identity, or a GSS principal. It replaces the older client configuration (such as `AdminClients` and `QueryClients`), which allowed you to set permissions only by IP or host.

The older clients configuration method was deprecated in IDOL 11.5. Micro Focus strongly recommends that you update your system to use authorization roles when you upgrade to IDOL 12.x.

Documentation for the deprecated settings is not available in the IDOL 12.x documentation. These parameters might be removed from IDOL components in a future version.

For more information about how to configure authorization roles, refer to your component Reference and Administration Guide.

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