

IDOL

Content Component

Software Version 12.9.0

Release Notes



Document Release Date: June 2021
Software Release Date: June 2021

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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

- New in this Release 4
- Resolved Issues 5
- Notes 6
- Documentation 7

New in this Release

The following new features were released in Content Component version 12.9.0.

- The implementation of AES that IDOL uses to encrypt security info strings has been updated. This update is not backwards compatible with earlier versions. If you use AES to encrypt security info strings, you must upgrade all IDOL components that process security info (Community, Content, DAH, and Answer Server) to version 12.9, to ensure that components can successfully exchange security info.

This change includes built-in authentication, so additional HMAC validation (by using the `HMACValidation` parameter) is no longer required or supported. The `HMACValidation` is now deprecated, and might be deleted in future.

- On-disk index encryption in the Content component has been hardened, by using a newer and more secure implementation of AES encryption.

NOTE: Micro Focus recommends that you back up your index before you upgrade the Content executable.

The changes are backwards compatible, so that Content can still read existing encrypted indexes after you upgrade. However, you cannot then return to an older version of Content, as older versions cannot decrypt data written in the new format.

For information about which indexes are encrypted, and how encryption is applied to existing indexes, refer to the *IDOL Server Administration Guide*. The `getStatus` action response displays an encryption status of **partial** for indexes that contain data that was encrypted with the older AES implementation.

- Scoring of phrases inside the SYNONYM query operator has been adjusted, to prefer documents containing a higher number of occurrences of all the terms in a phrase.
- ACI servers can now communicate with a License Server instance that requires a GSSAPI authenticated connection (that is, where the License Server configuration has `RequireGSSAuth` set to `True`). To allow this communication, you must set `GSSServiceName` in the `[License]` section of the configuration file to the GSSAPI service name of the License Server. For example:

```
[License]
GSSServiceName=LICENSESERVER
```

- The third-party OpenSSL library has been updated to 1.1.1.j.
- The `Admin`, `Help`, `LoadDoc`, and `LoadImage` actions now set the HTTP response header `Content-Security-Policy`, to improve security against cross-site scripting. If the `Content-Type` header is set, these actions also set the header `X-Content-Type-Options: nosniff`.

Resolved Issues

The following issues were resolved in Content Component version 12.9.0.

- On Windows, synchronizing the Bitfield index occasionally reported an error.
- On Windows, regenerating the Security index occasionally failed.
- The `GetStatus` action response reported `num_databases` as the number of active and deleted databases. The `num_databases` tag now reports the number of active databases.
- When index encryption was configured, a reference-based stored state created with the `StoredStateField` parameter could contain incorrect data, and would fail to match the correct documents when used as a restriction on subsequent queries.
- When `SecureTermExpansion` was turned on, a `TermExpand` action with `Expansion` set to **Phrase** could cause IDOL Content to exit unexpectedly.
- With an encrypted index, certain specific distributions of index terms could cause a small number of terms to be unsearchable, reporting an error `Unable to read term info`. These errors were reported during disk index validation.

Spurious errors could also be reported in this state: `Unable to read term info` when querying specific, non-existent terms, and `Term list file size mismatch` when re-starting the engine.

Notes

These notes provide extra information about installing and using Content Component.

- The default Agentstore configuration files now include an AlwaysMatchType field with PropertyFieldCSVs=*/ALWAYSMATCH.
- The provided default configuration files now define the following sections from a common configuration file, idol.common.cfg: [License], [AdminRole], [QueryRole], [IndexRole], [Logging], [ApplicationLogStream], [QueryLogStream], and [IndexLogStream].

- **Deprecated Features**

The following features are deprecated and might be removed in a future release.

Category	Deprecated Feature	Deprecated Since
Configuration	The HMACValidation configuration parameter. In version 12.9.0, the AES implementation for encrypting security info strings was updated to include built-in authentication, so additional HMAC validation is no longer required or supported.	12.9.0
Configuration	The NGramOrientalOnly configuration parameter. You must now use the equivalent NGramSentenceBrokenScriptOnly parameter instead.	12.7.0

- The autpassword command-line tool has been updated to provide hardened AES encryption for passwords. Micro Focus strongly recommends that you reencrypt all passwords in configuration files by using the updated tool.

The older AES encryption format and basic encryption methods are now deprecated. Passwords that you have encrypted with older versions continue to work, but the server logs a warning. Support for these older encryption methods will be removed in future.

Documentation

The following documentation was updated for Content Component version 12.9.0.

- *IDOL Expert*
- *IDOL Getting Started Guide*
- *IDOL Server Reference*
- *IDOL Content Component Reference*
- *IDOL Server Administration Guide*