

IDOL Content Component

Software Version 12.0.0

Release Notes



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New in this Release

This section lists the enhancements to IDOL Content Component version 12.0.0.

- You can now configure Content to encrypt document content that it stores on disk. Content uses 256-bit AES encryption. You can configure encryption by setting the `AESKeyFile` parameter in the `[DataEncryption]` configuration section to the path to your AES key file, or by setting the `-dataencryptionkey` command-line parameter to the 64-character hexadecimal AES key when you start Content. The command-line option takes precedence over any configured key file information.

Encryption includes document data in the index and index cache, value mapping files used by the `parametric`, `match`, and `security` indexes, the term dictionary, the unstemmed term tree, the geospatial index, and also any data sent with index actions that is stored in your index queue before processing. You can determine the encryption status of your index by using the `GetStatus` action.

To use index encryption in a distributed index, you must also update your DIH and DAH to version 12.0.0 or later.

- A new index type has been added to improve storage for geospatial information. You can configure fields to use this new index type by assigning the `GeospatialType` field property. This field property defines whether a particular field defines X, Y, latitude, longitude, or unified position information. The unified field type accepts Well-known text format POINT and POLYGON definitions, which specify a point or a region, respectively.

You can use the new index type with the existing `DISTCARTESIAN`, `DISTSPHERICAL`, `BIASDISTCARTESIAN`, `BIASDISTSPHERICAL`, and `POLYGON` `FieldText` operators, as well as the following new operators:

- `GEOINTERSECTS`. Finds points or regions that overlap a region that you specify.
- `GEOWITHIN`. Finds points or regions that are wholly within a region that you specify.
- `GEOCONTAINS`. Finds regions that wholly contain a point or region that you specify.

You can also use the new fields for distance-based `Query` sorting, and `UserMetaFields`.

You can configure the location of geospatial index files on disk by using the `GeospatialPath` configuration parameter in the `[Paths]` section. You can validate the state of the index by using the `DREVALIDATE` action with `Type` set to **Geospatial**, or by using the `ValidateGeospatial` configuration parameter. You can repair or update the configuration for the index by using the `RegenerateGeospatialIndex` configuration parameter in the `[Server]` section, or by using the `DREREGENERATE` action with `Type` set to **Geospatial**.

- The `Query` action now supports setting the `Highlight` parameter to `Proximity` in combination with `Print` set to `AllSections`.
- When `RequireGSSAuth` is configured, and an index connection is rejected, Content now logs the GSS Principal that initiated the connection.
- Query terms longer than 255 characters are now truncated, rather than ignored.

- You can now use the `AgentBooleanWeighting` configuration option with the `AbsWeight` query parameter. This might improve concept matching against `AgentBoolean` documents in some cases.
- Resilience to errors has been improved when updating the XML field names file (`main/xmln.db`).
- Several new modes have been added for the JSON response format. The `ResponseFormat` general ACI action parameter has the following new options:
 - `json/0`. The older JSON format, which returns single-element lists as objects rather than arrays.
 - `json/1`. A new JSON format, which returns single-element lists as arrays, for consistency with multiple-element lists.
 - `simplejson`. A new JSON format, similar to `json/1`, but it does not use `$` nodes to represent XML nodes unless the equivalent XML node contains attributes. This response format also does not use `autn:` prefixes in node names.

The existing `ResponseFormat` option, `json`, uses your default JSON format, which you configure by setting the `JSONFormat` parameter in the `[Server]` section of the configuration file. The `JSONFormat` configuration parameter accepts the three values listed above, as well as `json`, which uses the latest JSON format version (currently `json/1`).

- The OpenSSL library has been updated to version 1.0.2n.

Resolved Issues

This section lists the resolved issues in IDOL Content Component version 12.0.0.

- Content could fail to deduplicate documents that were sent as update-only jobs in a distributed system if the system had reached its licensed capacity.
- Content sometimes highlighted section-broken XML documents incorrectly when the `Highlight` parameter was set to `Proximity` in a `Query` action.
- Content did not return query reason information for queries where the text had a leading wildcard character.
- When highlighting a term that contains a wildcard character, Content did not highlight content that contained a different stem form of the term.
- When using Korean sentence breaking, a misleading sentence breaking error could be returned if the `Text` parameter was UTF-8 encoded and contained only characters that have no corresponding mapping in the native Korean encoding.

NOTE:

To resolve this issue, you must update the `koreanbreaking` shared library in the `langfiles` directory.

- When using `SearchUncommittedDocuments` and when the index had more than one `dynterm` set, a `DRECOMPACT` operation could result in an interruption of service.
- Running a `GetStatus` action while the `DRERESIZEINDEXCACHE` was processing could result in an interruption of service.
- The `ShowPermissions` action did not show permissions for `SSLIdentities` configured in the `[AuthorizationRoles]`.
- If an ACI Server was configured to request client SSL certificates, running multiple requests from a client could sometimes fail with **session id context uninitialized** errors. For example, this could occur when loading IDOL Admin.

Notes

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

- Documentation for features related to the Verity Query Language (VQL) has been removed from the *Content Component Reference* and the *IDOL Server Reference*.
- Documentation for the deprecated `AdminClients`, `IndexClients`, `UserClients`, `QueryClients`, `ServiceControlClients`, and `ServiceStatusClients` parameters has been removed.

This functionality is still available, but might be incompatible with new functionality, and might be deleted in the future. For details about the parameters, refer to the documentation for your components at version 11.6 or earlier.

Documentation

The following documentation was updated for this release.

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