



IDOL Content Component

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Release Notes

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New in this Release

The following enhancements were added in IDOL Content Component version 11.6.2.

- Resilience to errors has been improved when updating the XML field names file (`main/xmln.db`).

This section lists the enhancements to IDOL Content Component version 11.6.0.

- When `NodetableCompression` is enabled, decompressing large documents now uses less overhead memory.
- The new `DefaultOperator` parameter has been added to the `Query`, `GetQueryTagValues`, `GetContent`, and `Highlight` actions. This parameter sets the default operator to use between the terms in a query. It overrides the `DefaultQueryOperator` configuration parameter.

NOTE:

If you distribute actions to Content by using a DAH, you must also update DAH to 11.6 or later to use this parameter.

- You can now turn off the best term hash, by setting the new `BestTermHash` configuration parameter in the `[Server]` section. This option might increase indexing speed in cases where you are regularly adding a very large number of new terms, at the expense of increasing the disk I/O when best term information is required (such as `QuerySummary` and `Suggest`).
- The `TermGetBest` and `TermGetInfo` actions now allow you to show the unmodified query term weights, rather than the default suggestion weights, by setting the `ShowQueryWeights` parameter. This option might be useful if you want to use the term weight results as a basis to create a custom term file.
- You can now show term weight information in the `TermGetAll` action, by setting the `Weights` parameter.
- The `GetQueryTagValues` action now respects value ranges when `FieldDependenceMultiLevel` is set to `True`. Previously, the action returned values individually, rather than bracketing them into ranges. This change applies to configured `ParametricRangeType` fields, and fields with custom ranges supplied by using the `FIXED` or `FIXEDDATE` range specifiers in the action.

NOTE:

If you distribute actions to Content by using a DAH, you must also update DAH to 11.6 or later to use this option.

- Unstemmed processing has been improved so that Content writes out the unstemmed settings file only when required, rather than at every unstemmed flush.
- You can now configure your authorization role `SSLIdentities` to identify clients by using an email address in the certificate `subjectAltName`. You can use an optional tag for each SSL identity to specify whether it is a **dns** or **email** type identity. If there is no tag, the server treats it as **dns** type. For example:

```
SSLIdentities=email:user@example.com,dns:admin.example.com,webapp.example.com
```

- When using GSS security, you can now configure the service to allow clients to authenticate to any service principal in the service's keytab, rather than requiring a single principal. You use this option by setting the `GSSServiceName` configuration parameter to an asterisk (*).

Resolved Issues

The following issues were resolved in IDOL Content Component version 11.6.2.

- Javascript could be injected into the `GetRequestLog` response by sending actions to the server.
- 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` index action was processing could result in an interruption of service.
- Content did not restore status files (stored in the directory configured by `[Paths] StatusPath`) from a backup when `BackupCompression` was set to `True`.
- The `DRECOMPACT` index action could cause inconsistencies in large dynterm indexes (with more than approximately 12GB of term data). Processing the affected data could subsequently cause an interruption of service.
- An interruption of service could occur when Content returned the data for a document with more than 100,000 fields at a single level.
- On an index where `RepositoryStorage` mode was turned off, the `DREVALIDATE` index action could return errors.

The following issues were resolved in IDOL Content Component version 11.6.0

- In servers that use asynchronous actions and where you have document security enabled, sending a `DREINITIAL` index action could result in an interruption of service if the number of synchronous threads plus twice the number of asynchronous threads was more than 32.
- Using an AND-type operator as the `DefaultQueryOperator` could result in the `SYNONYM` operator returning fewer results than expected if the `SYNONYM` contained phrases or exact stem matches.
- When `Highlight` was set to `Proximity` in a query action and the `XMLFullStructure` configuration parameter was set to `True`, highlighting could miss simple terms.
- Terms that did not satisfy the `IndexNumbers` criteria were not counted in term proximity by the `Query` action, but were counted by the `GetContent` action when doing `Boolean` highlighting. Position counting is now consistent between `Query`, `GetContent` with `Boolean` set to `True`, and the `Highlight` action with `TextParse` set to `True`. The `Highlight` action for plain text continues to count all numeric and alphanumeric terms in term proximity, regardless of the `IndexNumbers` configuration.
- If the first entry in an index field was a proper names chunk (for example, *A Smith went to town...*, where the first term is `ASMITH` and has no position) then attempting proximity based highlighting on that field could result in an interruption of service.
- When using sentence breaking for a language, Content did not highlight synonym terms if they occurred at the start of a field.
- The response to the `GetQueryTagValues` action sometimes listed uncommon values with a count of zero (rather than 1), when `Predict` was set to `True`. When the request was sent through a DAH, the DAH response sometimes missed the count attributes for these values.
- If a custom sentence breaking library used the four sentence breaking mark syntax, wildcard searches could fail to return results.

- License related messages in the event log would appear from a different source to other messages.

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*