



**Hewlett Packard**  
Enterprise

# HPE Query Manipulation Server

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## Release Notes

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## New in this Release

This section lists the enhancements to HPE Query Manipulation Server version 11.4.0.

- QMS has been updated to return refreshed SecurityInfo tokens from the Content component. When you configure the new `SecurityTokenIdleTime` parameter in Community 11.4, QMS returns the refresh tokens from Content in a `responsedata/autn:securityinfo` element in the response for actions that accept the `SecurityInfo` parameter.
- In QMS synonym rules, you can now use the `$QUERYTEXT$` template string in your `CONCEPT` fields to use the original query text in the synonym string. You can use this option with more flexible rules, such as rules that contain wildcard values, to incorporate the query text in the final query string. For example, if you have a synonym rule that matches `Matt*`, and a user searches for Matthew or Matty, you can include their exact text in the query string, without enumerating every possible wildcard expansion in the rule.
- The `SYNONYMREPLACE` field has been added to synonym rules. If you add this field to a rule, it overrides the `SynonymReplace` action parameter for queries that match the rule. Set this field to `TRUE` to always replace the whole query text with the contents of the synonym `CONCEPT` field. For example, you can use this option in combination with the new `$QUERYTEXT$` template string to avoid repeating the query. You can also set this field to `FALSE` if you never want to replace the query text.

**NOTE:**

When you set `SYNONYMREPLACE` to `TRUE`, you do not have to set the `KEYWORDS` field.

- QMS has been updated to process the new `ValueRestriction` parameter for the `GetQueryTagValues` action.
- QMS now supports the `OutputEncoding` parameter on actions that retrieve documents from your data index. To use this option, you must configure language files in the QMS configuration file, by setting the `LanguageDirectory` parameter to the location of the language files in the `[LanguageTypes]` section. For example:

```
[LanguageTypes]
LanguageDirectory=./langfiles
```

You can retrieve the language files from an IDOL Content component installation.

- You can now configure action authorization more flexibly. The `[AuthorizationRoles]` configuration section has been added. You can add subsections to create roles, which can use a combination of existing roles (equivalent to the existing `AdminClients`, `QueryClients`, and so on), or a specific set of actions. For each role, you can specify the client IPs and hosts, SSL identities, and GSS principals to use to identify users that have particular permissions to run actions.

If you want to use only SSL and GSS authorization, you can disable the client settings by setting the appropriate client configuration parameters to `""`. For example, `AdminClients=""` disables client authorization for administrative actions, and ensures that users must meet the SSL or GSS requirements.

- You can now set `SSLCertificate` to be a chain certificate in PEM format (consisting of the end-entity certificate, any intermediate certificates, and ending with the root CA certificate). This option allows a complete certificate to be returned to the connected peer.

- You can now set `SSLCheckCertificate` to `False` even when `SSLCACertificate` or `SSLCACertificatePath` are set. This allows the component to fill in any chain required for the `SSLCertificate` by using the certificates that you specify in `SSLCACertificate` and `SSLCACertificatePath`, without requiring a certificate from the connected peer.
- The `GSSAPILibrary` configuration parameter has been added to the `[Paths]` section. You can set this parameter to the path to the GSSAPI shared library or DLL that the application uses. Depending on your system configuration, HPE Query Manipulation Server attempts to detect the appropriate library to use. However, if you use Kerberos or GSSAPI security in your setup, HPE recommends that you set an explicit value for this parameter.

## Resolved Issues

This section lists the resolved issues in HPE Query Manipulation Server version 11.4.0.

- QMS sometimes split the `authn:field` tags in the response to a `GetQueryTagValues` action with `FieldDependenceMultiLevel` set to `True`.
- QMS did not respect the `-configfile` command line argument when starting.
- The `GetVersion` action could incorrectly report their operating system on Microsoft Windows 10 and Microsoft Windows Server 2016 platforms.

# Documentation

The following documentation was updated for this release.

- *QMS Administration Guide*
- *QMS Reference*