ConnectorLib Java SDK

Software Version: 11.5.1

Release Notes

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Contents

New in this Release

This section lists the enhancements to ConnectorLib Java SDK version 11.5.1.

- The `identifiers` fetch action supports a new parameter, `FilterTypes`, which accepts a comma-separated list of the types of items to return identifiers for.

- The `identifiers` fetch action returns the identifiers of all ancestors (up to the root of the repository) for the items that you request. The action accepts a new parameter, `ShowAncestors` (default `TRUE`), which specifies whether to show these identifiers.

- The `LogTypeCSVs` configuration parameter supports additional options for customizing logging. You can now create a separate log file for a fetch task or fetch action.

- Connectors developed with ConnectorLib Java SDK provide additional statistics about the work they have completed, for example the number and frequency of ingest-adds, ingest-updates, and ingest-deletes. You can view these statistics through the `GetStatistics` service action.

- Connectors developed with ConnectorLib Java SDK support progress reporting for the `collect`, `delete`, `hold`, `releasehold`, `insert`, `stub`, and `update` fetch actions.

- Connectors developed with ConnectorLib Java SDK version 11.5.1 support the following Lua functions:

  - New functions and classes for parsing and manipulating JSON. The new functions are `parse_json`, `parse_json_array`, and `parse_json_object`. The new classes are `LuaJsonArray`, `LuaJsonObject`, and `LuaJsonValue`.

  - `get_log_service`, and the new class `LuaLogService`. You can use these when you want to write log messages to a custom log file (instead of the standard ACI server log files).

  - `parse_document_csv`, `parse_document_idx`, and `parse_document_xml`. These functions parse CSV, IDX, or XML files into documents and call a function on each document. `parse_document_idx` and `parse_document_xml` can also parse a string or file that contains a single document and return a `LuaDocument` object.

- You can now call the Lua method `insertJson` on `LuaField` objects as well as `LuaDocument` objects. You can also pass it one of the new `LuaJsonArray` or `LuaJsonObject` objects instead of a string.

- 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 `SSLCheckCerticate` 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, ConnectorLib Java SDK attempts to detect the appropriate library to use. However, if you use Kerberos or GSSAPI security in your setup, Micro Focus recommends that you set an explicit value for this parameter.

- All ACI server ports now support the `Expect: 100-continue` HTTP header. Previously, third-party client applications that used this header (for example, using the cURL utility with the -F option to POST form data) could experience increased latency when communicating with connectors developed with the ConnectorLib Java SDK.

Resolved Issues

This section lists the resolved issues in ConnectorLib Java SDK version 11.5.1.

- The `GetVersion` action could incorrectly report the operating system on Microsoft Windows 10 and Microsoft Windows Server 2016.

Notes

- The Lua function `get_log(config, logstream)` has been deprecated. Micro Focus recommends that you use the new function `get_log(log_type)` instead.
- The Lua function `string_uint_less` has been removed.
- The following configuration parameters, for action authorization by client IP address, have been deprecated:
  - `[Server] AdminClients`
  - `[Server] QueryClients`
  - `[Service] ServiceControlClients`
  - `[Service] ServiceStatusClients`

  You can now use the `[AuthorizationRoles]` configuration section to set up authorization for your servers more flexibly. These configuration parameters are still available for existing implementations, but they might be incompatible with new functionality. The parameters might be deleted in future.

Documentation

The following documentation was updated for this release.

- *ConnectorLib Java SDK Programming Guide*