Hewlett Packard
Enterprise

HPE Connector Framework Server

Software Version: 11.4.0

Release Notes

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Contents

New in this Release

This section lists the enhancements to HPE Connector Framework Server version 11.4.0.

- Improved support for extracting information from HTML. CFS can now use an embedded browser (WKOOP) to process HTML in a similar way to the IDOL Web Connector. This has many advantages over previous methods of processing HTML. The embedded browser allows scripts to run before the page is processed, so CFS can extract content and links that are added by JavaScript. You can also remove unwanted content, divide pages into multiple documents, and extract metadata using CSS selectors rather than regular expressions. There is a new pre-import task, `WkoopHtmlExtraction`, and a new Lua function, `wkoop_html_processing`, to provide these features.

  > **NOTE:**
  > To use this feature you must also install the IDOL Web Connector, because WKOOP is not provided with CFS.

- CFS can transform XML files using an XSL stylesheet, before attempting to parse them. You might want to use this feature if you need to process XML documents that have different schema to IDOL documents. You can configure multiple transformations and CFS can determine which transformation to run by validating that the ingested XML matches a schema file.
- CFS includes the libraries that are necessary to run Lua functionality from an external process or IDE. This allows you to use an IDE to develop and test Lua scripts.
- The `ImportExtractExternal` parameter has been added. Some documents contain links to external files, for example URLs to files that are available through a web site. KeyView processes a link to an external file as a sub-file, but it cannot retrieve the external file and so returns an error. To prevent CFS creating documents for sub-files that cannot be processed, and logging errors that are returned by KeyView, set `ImportExtractExternal=False`.
- The Eduction task supports a new parameter, `MatchTimeout`. This specifies the maximum amount of time to spend searching for matches (to all chosen entities) at a specific offset. If the timeout is reached, Eduction returns the best match it has found (if any) and continues looking for matches later in the text. The default value of this parameter is 60 seconds, but in most cases the timeout is never reached. The timeout has been added to prevent Eduction running for a long time with abnormal input text.
- Eduction can now extract entities from zones (a zone is a part of a field defined by start and end patterns). The configuration parameters `EntityZoneN`, `ZoneStartN`, and `ZoneEndN` have been added.
- CFS can index documents into a MetaStore using SSL/TLS. The MetaStore indexer now supports the configuration parameter `SSLConfig`, which specifies the name of the section in the configuration file that contains the SSL settings.
- CFS supports the following Lua functions:
  - `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.

- 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.

- 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, HPE Connector Framework 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 Connector Framework Server version 11.4.0.

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

Supported Operating System Platforms

The following operating system platforms are supported by HPE Connector Framework Server 11.4.0.

- Windows x86
- Windows x86 64
- Linux x86 64
- Solaris x86 64
- Solaris SPARC 64

The documented platforms are the recommended and most fully tested platforms for HPE Connector Framework Server. The following sections provide more information about the most fully tested versions of these platforms.

Windows

- Windows Server 2012 x86 64
- Windows 7 SP1 x86 64
- Windows Server 2008 R2 x86 64
- Windows Server 2008 SP2 x86 64

Linux

For Linux, the following lists the minimum recommended versions of particular distributions:

- Red Hat Enterprise Linux (RHEL) 6
- CentOS 6
- SuSE Linux Enterprise Server (SLES) 10
- Ubuntu 14.04
- Debian 7

Solaris

- Solaris 10
- Solaris 11

Notes

- The Lua function `get_log(config, logstream)` has been deprecated. HPE recommends that you use the new function `get_log(log_type)` instead.
- The Lua function `string_uint_less` has been removed.

Documentation

The following documentation was updated for this release.

- *HPE Connector Framework Server Administration Guide*
- *HPE Connector Framework Server Reference*