Connector Framework Server

Software Version: 11.5.0

Release Notes

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Contents

New in this Release

This section lists the enhancements to Connector Framework Server version 11.5.0.

- CFS can extract images from supported file formats, and ingest the images as separate documents. You might want to do this so that you can send the images to Media Server for analysis. To enable image extraction, set the new parameter `ExtractImages` to `TRUE`.

- The action `GetDocumentStatus` has been added. This accepts a document reference and returns the status of the document (such as awaiting import, awaiting indexing, or indexing complete).

- Media analysis has been improved. The Lua functions `analyze_media_in_document` and `analyze_media_in_file` can be passed the path of a configuration file to send to Media Server. They also accept a named parameter, `config_params`, that you can use to override parameters in the specified configuration file. CFS includes example Lua scripts (in `scripts/mediaserver`), example Media Server configurations (in `script_resources/mediaserver`) and example XSL templates (in `xslt/mediaserver`) for running media analysis.

- CFS has a new import task to detect the language of a document. You can use this to filter out documents where a language cannot be detected.

- CFS includes an example Lua script, `filterdodgyfiles.lua`, which demonstrates various ways to reject unwanted files.

- CFS can use third-party translation services to translate documents from one language to another. Language translation is available through an import task. The task library is not supplied with the standard CFS installation but can be obtained from technical support.

- The configuration parameters `MetadataAttribute` and `ChildMetadataAttribute` have been added to the `WkoopHtmlExtraction` task. You can use these with existing parameters for metadata extraction, to extract attribute values from the HTML and add the values to the document, or child document, metadata.

- The Eduction task supports a new parameter, `RequestTimeout`. This specifies the maximum amount of time to spend searching for matches in a single document. If the timeout is reached, Eduction stops processing and returns any results that were found. The default value of this parameter is 300 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.

- The IDOL Speech task supports the new parameters `MaximumSilencePercentage` and `MinimumAverageConfidencePercentage`. You can use these parameters to reject documents unless they meet certain thresholds. `MaximumSilencePercentage` specifies the maximum amount of silence to allow in the speech-to-text transcript. `MinimumAverageConfidencePercentage` specifies the minimum average confidence score, for speech-to-text to be considered successful.

- CFS supports a new control field, `AUTN_NO_INDEX`. Documents that have this field are not indexed. You might use this when you want to troubleshoot the ingestion process without indexing documents.

- 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 the ACI server.

- You can now configure GSS authentication on the ACI and service ports without using ACI encryption. In this mode, all connections to the ports must be authenticated using GSSAPI and the Negotiate HTTP authentication mechanism.

  To use GSS authentication, you must set the `GSSServiceName` parameter in the `[Server]` section to the full service name, domain, and Kerberos realm for the service. You can then set the `RequireGSSAuth` parameter in the `[Server]` section to enable GSS authentication on the ACI port, and set `RequireGSSAuth` in the `[Service]` section to enable GSS authentication on the service port.

  > **NOTE:**
  > You cannot configure `RequireGSSAuth` with the `[ACIEncryption]` configuration options. If you attempt to configure both, the server does not start.
  >
  > This method provides an authentication requirement only. HPE recommends that you use it in conjunction with TLS/SSL to encrypt the authentication data.

Resolved Issues

This section lists the resolved issues in Connector Framework Server version 11.5.0.

- The `extract_text_from_binary_file` Lua function could fail with the error "Invalid UTF-8 sequence encountered while trying to encode UTF-32 character".

- When an authorization role defined `Actions`, `ServiceActions`, or `IndexActions`, and the authorization role `Clients` parameter contained host names, calling the `ShowPermissions` action could result in an interruption of service.

Supported Operating System Platforms

The following operating system platforms are supported by Connector Framework Server 11.5.0.

- Windows x86 64

- Linux x86 64

- Solaris x86 64

- Solaris SPARC 64

The documented platforms are the recommended and most fully tested platforms for 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

- To reflect changes in IDOL Speech Server, the following configuration parameters have been deprecated:

  - `LangIdCumStreamParameterSection` - use the new parameter `LangIdParameterSection` instead

  - `LangIdCumWavParameterSection` - use the new parameter `LangIdParameterSection` instead.

  - `StreamToTextParameterSection` - use the new parameter `SpeechToTextParameterSection` instead.

  - `StreamToTextTaskType` - use the new parameter `SpeechToTextTaskType` instead.

  - `WavToTextParameterSection` - use the new parameter `SpeechToTextParameterSection` instead.

  - `WavToTextTaskType` - use the new parameter `SpeechToTextTaskType` instead.

  In the `idol_speech` Lua function the named parameters `langIdCumStreamParameters`, `langIdCumWavParameters`, `streamToTextParameters`, and `wavToTextParameters` have been deprecated. Use the new named parameters `langIdParameters` and `speechToTextParameters` instead.

  > **IMPORTANT:**
  > The deprecated parameters are still available but only work with Speech Server 11.4 and earlier. If you upgrade your IDOL Speech Server, you must also update your CFS task configurations and Lua scripts. The deprecated parameters might be deleted in future.

- The following configuration parameters for setting server action authorization by client IP address have been deprecated:

  - `[Server] AdminClients`

  - `[Server] IndexClients`

  - `[Server] QueryClients` or `UserClients`

  - `[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.

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