Media Server

Software Version 12.7.0

Release Notes

MICRO FOCUS®

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Documentation updates

The title page of this document contains the following identifying information:
- Software Version number, which indicates the software version.
- Document Release Date, which changes each time the document is updated.
- Software Release Date, which indicates the release date of this version of the software.

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- Contact customer support
- View information about all services that Support offers

Many areas of the portal require you to sign in. If you need an account, you can create one when prompted to sign in. To learn about the different access levels the portal uses, see the Access Levels descriptions.

Contents

New in this Release

The following new features were released in Media Server version 12.7.0.

- Media Server can evaluate image classifiers and object class recognizers, and provide statistics about their performance, so that you can find the optimum number of training iterations for the neural network and avoid overfitting.

  Media Server tests a classifier or recognizer by reserving some of the training data that you provide. During the training process, Media Server saves snapshots of the classifier or recognizer, so that you can evaluate different numbers of training iterations without having to repeat the training. After reviewing the statistics you can select the snapshot to use. You can enable these features by setting training options on your classifier or recognizer - they are not enabled by default. For more information, refer to the *Media Server Administration Guide*.

- Media Server can produce heat maps that show the areas of a scene with the most activity. As objects move through the same part of a scene, their paths overlap and the heat map turns from blue, to green, and then to red. You can also configure a heat map to show where, and for how long, objects are stationary within a scene.

- The OpenSSL library has been updated to version 1.1.1g.

Analysis

- Media Server has a new engine for broadcast monitoring (`Type=VideoSegmentation`), to divide video into segments that end with a transition to the next scene. A new pre-trained classifier is available to classify the video segments as news or advertising. The new classifier is named `ImageClassifier_Broadcast.dat`.

- Image classification has a new parameter, `MaxClassResults`. You can use this parameter to limit the number of classifications for each input record or event. Media Server outputs the classifications with the best confidence scores. For example, to output only the classification with the greatest confidence score, set `MaxClassResults=1`.

- A new pre-trained classifier is available to classify images of documents. The classifier is named `ImageClassifier_Document.dat` and has the classes "CV", "Form", "ID Document", "Leaflet", "Letter", "Magazine", "Newspaper", "Poster", "Report", and "Table".

- Improved face recognition accuracy.

- Improved Optical Character Recognition (OCR) accuracy.

- OCR supports alphabet detection and detection of orientation when processing images in scene mode (for example photographs or still images from television broadcasts). These features are not available when ingesting video.

- Number plate recognition supports number plates from Taiwan (`Location=TW`).

- Improved filtering of skin colors in clothing analysis, so that the colors reported by Media Server more accurately match the clothing.

Encoding

- Media Server has a new encoding engine (`Type=EventClip`) to encode video clips of events produced by your analysis tasks. This is similar to setting up a rolling buffer and using the `CreateClip` action to save clips, except that the clips are generated automatically.

- Media Server has a new encoding engine (`Type=PDF`) to encode images to PDF files. The engine accepts data from Optical Character Recognition (OCR) so that you can create searchable PDF files from scanned documents or other images.

Miscellaneous

- The `Process` and `ValidateProcessConfig` actions accept configuration zip bundles saved from the Media Server Graphical User Interface. You no longer need to extract the files from a zip bundle before starting the `process` action.

- A new action (`GetTypeSchemas`) returns a list of XML schemas for the data types used in records. Output track schemas have also been added to the response of the existing action `ValidateProcessConfig`.

- A new macro, `%source.filename.stem%`, provides the source file name without the file extension.

- The `Rotate` transform engine can use an angle contained in the input data to make the image upright. Records from face detection, object recognition, and OCR contain angles. The `Angle` and `LuaScript` parameters are now optional.

Resolved Issues

The following issues were resolved in Media Server version 12.7.0.

- Optical character recognition could output incorrect bounding boxes for rotated text.

- Various `GetRequestLog` (`GRL`) HTML issues have been fixed:

  - Actions were not properly escaped in some places, which could allow malicious users to inject some alternative HTML in the `GetRequestLog` response.

  - The Open link in new window option did not work.

  - The auto refresh option would modify the selected open link option.

  - Links to the obsolete confighelp action have been removed.

  - The HTML page now uses a Content-Security-Policy to protect against malicious data injection by crafted actions sent to the server.

Notes

This section contains information that is important if you are upgrading from an earlier version of Media Server.

New Database Schema

- The Media Server database schema has changed. If you are using an internal database, the schema upgrade is performed automatically when you start the new version of Media Server. If you are using an external PostgreSQL or MySQL database you must run an upgrade script, which is included in the Media Server 12.7.0 installation. For more information about upgrading the database schema, refer to the *Media Server Administration Guide*.

Deprecated Features

The following features are deprecated and might be removed in a future release.

Category	Deprecated Feature	Deprecated Since
Session configuration	The `RestrictToInputRegion` configuration parameter has been deprecated. Micro Focus recommends setting `Region=Input` instead.	12.7.0
Session configuration	To simplify configuration, units can be specified in the same parameter as the corresponding value. As a result the following configuration parameters have been deprecated: • `BorderUnit` (Crop transformation) • `CharHeightUnit` (Number plate recognition, text detection) • `PathUnit` (Path alerts) • `RegionUnit` • `SizeUnit` (Face detection, object recognition, persistent change detection) • `TripwireUnit` (Tripwire alerts) Micro Focus recommends that you update your session configurations. For example, if you have a configuration that sets the `Region` parameter, add units alongside the parameter value. If the parameters listed above are removed in a future version of Media Server, values without units will	12.7.0

	become invalid.	
Audio Matching	The output of audio matching has changed, to be more consistent with the output from other analysis tasks. The following output fields are deprecated: • `identifier` (use `identity/identifier` instead) • `database` (use `identity/database` instead) • `score` (use `identity/confidence` instead)	12.6.0
Speaker ID	The output of speaker identification has changed, to be more consistent with the output from other analysis tasks. The following output fields are deprecated: • `confidence` (use `identity/confidence` instead)	12.6.0
ACI Encryption	ACI Encryption has been deprecated. Instead of using ACI encryption, Micro Focus recommends configuring Secure Socket Layer (SSL) connections between ACI servers and applications. You can use GSS authorization without using ACI encryption by configuring the `GSSServiceName` and `RequireGSSAuth` parameters.	12.6.0
Databases	The `ODBCDriverManager` parameter (in the `[Database]` section of the Media Server configuration file, and for output engines that use ODBC). You no longer need to set this parameter.	12.6.0
Actions	The `GetLatestRecord` action. The new actions `KeepLatestRecords` and `GetLatestRecords` provide more control over what to store and retrieve.	12.5.0
Training database	Setting the `SyncInterval` parameter as a number of milliseconds. Micro Focus recommends setting this parameter as a time duration instead.	12.4.0
Event Stream Processing	The `MinTimeInterval` and `MaxTimeInterval` parameters for the `And`, `AndThen`, `AndAny`, `AndThenAny`, `AndNot`, `AndNotThen`, and `Combine` engines. Micro Focus recommends using the new configuration parameter `TimestampCondition` instead.	12.3.0
Server / Service	The `AdminClients`, `QueryClients`, `ServiceControlClients`, and `ServiceStatusClients` configuration parameters.	11.5.0

	Micro Focus recommends that you use authorization roles instead.	
Rolling buffer	The action parameter `name`, available on the actions `AddStream`, `EditStream`, `GetStreamInfo`, `PreAllocateStorage`, and `RemoveStream`. Micro Focus recommends that you use the parameter `stream`, instead. The action parameters `OldName` and `NewName`, on the action `RenameStream`. Micro Focus recommends that you use the parameters `Stream` and `NewStream` instead.	11.4.0

Documentation

The following documentation was updated for Media Server version 12.7.0.

- *Media Server Administration Guide*
- *Media Server Reference*