Media Server

Software Version 12.4.0

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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Contents

New in this Release

The following new features were released in Media Server version 12.4.0.

Media Server Core

- Media Server can import and export classifiers, databases, recognizers, and custom speech language models, so that you can move training from one server to another. For example, you can export a face database and then import it into a different Media Server that does not share the same database. The modules that support importing and exporting training data are: audio matching, face recognition, image classification, image comparison, image hash, object class recognition, object recognition, speaker identification, speech-to-text, and vehicle model recognition.

- Media Server supports a new macro, `%system.port%`, so that you can include the Media Server ACI port in configuration parameter values.

- In schedules defined with the `schedule` action, you can now add holiday periods during which no actions are started.

Analysis

- Face recognition accuracy has improved significantly.

- Object class recognition supports two new types of recognizer. These recognizers have different characteristics so that you can prioritize accuracy or run-time speed.

  - The recognizer type that was available in Media Server versions 12.3 and earlier is now named `Generation1`, and remains the default type. This type of recognizer is the fastest to train but the new recognizers provide equal or better accuracy and are much faster at run-time.

  - The new `Generation2` recognizer offers the best accuracy, but takes the longest to train. The training time is impractical on a CPU, so Micro Focus recommends that you train the recognizer on a machine with a supported GPU. You can use a trained `Generation2` recognizer with or without a GPU but Micro Focus recommends using a GPU for best performance. If you run recognition on a GPU, this type of recognizer is much faster than the `Generation1` recognizer, which allows you to set much shorter sample intervals.

  - The new `Generation3` recognizer is the fastest at run-time, but accuracy is slightly lower than the `Generation2` recognizer.

- Optical Character Recognition can detect the alphabet (such as Latin, Cyrillic, or Arabic) used on each image or page of a document. This can reduce the processing time when you configure multiple languages that span more than one alphabet, because Media Server can ignore languages that do not match the detected alphabet. To use this feature, set the new configuration parameter `DetectAlphabet`.

- Optical Character Recognition has a new output track, named `CharResult`, that provides character-level detail. This track is available only when you ingest images or documents. It is not available if the source is a video file or stream.

- The scene analysis engine has a new output track named `PTZChange`. Media Server writes a record to this track when a PTZ camera is moved away from, or back to, the configured scene.

Transformation

- The Crop transformation engine supports the configuration parameters `Region` and `RegionUnit`, so that you can crop images to a fixed region. The default behavior is unchanged (Media Server crops the image to the region specified in the input record, for example the bounding box around a detected face or object).

Resolved Issues

The following issues were resolved in Media Server version 12.4.0.

- Schedules created with `action=Schedule` were lost if the server was restarted.

- On Linux, when running some older versions of the Linux kernel, IDOL components could fail to connect to network ports.

Notes

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

Audio Analysis

Media Server versions 12.0 to 12.3 started a separate audio service for audio analysis (including language identification, speech-to-text, and speaker identification). Audio analysis functionality has now been integrated into Media Server and, as a result, the following options have been removed:

- The `AudioACIPort`, `AudioDataPort`, `AudioServicePort`, and `AudioStartTimeout` configuration parameters, which were set in the `[Resources]` section of the Media Server configuration file.

- The `AudioApplication` and `AudioAction` log types, which could be specified by the `LogTypeCSVs` configuration parameter.

Deprecated Features

Category	Deprecated Feature	Deprecated Since
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
Barcode analysis	The `ImageBinarizeMethod` configuration parameter.	12.2.0
Speech-to-text	The training action `SyncCustomSpeechLanguageModels`. Micro Focus recommends that you use the new action `SyncCustomSpeechResources` instead.	12.2.0
Scene Analysis	The configuration parameters `IsasTrainingDirectory` and `IsasAlarmDirectory`. Micro Focus recommends that you use the parameters `SceneAnalysisTrainingDirectory` and `SceneAnalysisAlarmDirectory` instead.	12.0.0

Server / Service	The `AdminClients`, `QueryClients`, `ServiceControlClients`, and `ServiceStatusClients` configuration parameters. Micro Focus recommends that you use authorization roles instead.	11.5.0
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

Removed Features

The following features have been removed:

- Analysis engine event tracks. The analysis engines that produced event tracks now have `Start` and `End` tracks. The `Start` and `End` tracks are the same as the `Data` track, but contain only the first or last record for each event. This means that the records describing the start and end of events have the same schema as records that provide the analysis results.

Documentation

The following documentation was updated for Media Server version 12.4.0.

- *Media Server Administration Guide*
- *Media Server Reference*
- *Media Server Scene Analysis Training Technical Note*