Media Server

Software Version 12.2.0

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.

You can check for more recent versions of a document through the MySupport portal. Many areas of the portal, including the one for documentation, require you to sign in with a Software Passport. If you need a Passport, you can create one when prompted to sign in.

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Contents

New in this Release

This section lists the enhancements to Media Server version 12.2.0.

Media Server Core

- Media Server GPU acceleration supports NVIDIA graphics cards built on the Volta and Turing micro-architectures.

- Media Server has a new action, `GetConfigKeys`, that provides information about session configuration parameters.

- The `ValidateProcessConfig` action returns information that can be used to draw the engine graph (the engines used in the session configuration and the connections between them).

- Media Server provides a new Lua function, `fillRectangle`, so that you can draw filled rectangles. Another new function, `rgba`, returns an object that represents a color with an associated opacity value. You can use these functions to obscure or highlight parts of encoded images.

- Elliptic Curve certificates and keys are supported, to enable the use of ECDSA and ECDH ciphers in TLS communications.

Analysis

- The accuracy of face recognition has improved significantly.

- You can expand the vocabulary of speech-to-text (allowing Media Server to identify additional words) by adding words to a custom word database. You can use a custom word database to supplement a custom language model, or if you do not have sufficient text to train a custom language model.

- Speech-to-text, transcript alignment, and language identification support Ukrainian (for broadband audio only; this feature is not supported for 8kHz telephony audio). The speech-to-text language pack is not included with Media Server but can be downloaded separately. Language identification is supported out-of-the-box.

- Language identification supports the parameter `SpeedBias`, so that when you are processing audio from a file you can choose whether to prioritize accuracy or processing speed.

- Language identification supports the parameter `SegmentDuration` (in `cumulative` or `segmented` mode), so that you can choose how much audio to analyze in a single segment.

- You can train object class recognition on a machine without a GPU (previous versions of Media Server required a GPU). Training with a GPU is significantly faster.

- The `SyncClassifiers` and `SyncObjectClasses` actions can synchronize a single classifier or recognizer, as an alternative to loading training for all classifiers or recognizers.

Event Stream Processing

- The `AndAny`, `AndThenAny`, `AndNot`, and `AndNotThen` engines accept more than one input for comparison with the `Input0` track. These engines output records received from the `Input0` track if any (or none in the case of the `AndNot` and `AndNotThen` engines) of the other tracks contain a record that meets the relevant conditions. This feature simplifies some complex configurations because you can use fewer ESP tasks.

Transformation

- The Lua script that you write for a `SetRectangle` task can return multiple rectangles for each input record.

Output

- You can encrypt the value of the `OdbcConnectionString` parameter, for the ODBC output engine.

User Interfaces

- The amount of time that traffic lights must be red before Media Server generates alarms can now be configured through the Scene Analysis Training Utility.

Resolved Issues

This section lists the resolved issues in Media Server version 12.2.0.

- In cumulative mode, language identification could output multiple results to the `Result` track.

- Sometimes the audio service did not stop when Media Server was stopped.

- The `ListClassifiers`, `ListObjectClassRecognizers`, and `ListDatabases` actions were extremely slow when the database contained training for image classification or object class recognition.

- Object class recognition could return an error when training classes on certain images.

Supported Operating System Platforms

The following operating system platforms are supported by Media Server 12.2.0.

- Windows x86 64

- Linux x86 64

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

Windows

- Windows Server 2016

- Windows Server 2012

- Windows Server 2008

- Windows 7

Linux

The minimum recommended versions of particular distributions are:

- CentOS 6
- Ubuntu 14.04

Supported Platforms with GPU support

The following operating system platforms are supported by Media Server 12.2.0 with GPU support.

- Windows x86 64

- Linux x86 64

The most fully tested versions of these platforms are:

Windows

- Windows Server 2012 R2

Linux

- Ubuntu 16.04

- Ubuntu 14.04

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 12.2.0 installation. For more information about upgrading the database schema, refer to the *Media Server Administration Guide*.

Deprecated Features

Category	Deprecated Feature	Deprecated Since
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
Analysis engines	Event tracks. The analysis engines that produce event tracks now have `Start` and `End` tracks. The `Start` and `End` tracks are the same as the `Data` track, but they only contain the first or last record for each event. This means that the records describing the start and end of events now have the same schema as records that provide the analysis results.	12.0.0
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	11.4.0

	`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.	

Documentation

The following documentation was updated for this release.

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