

IDOL Media Server

Software Version 12.9.0

Release Notes



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- Document Release Date, which changes each time the document is updated.
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Contents

- New in this Release 4
- Resolved Issues 6
- Notes 7
- Documentation 10

New in this Release

The following new features were released in Media Server version 12.9.0.

- Object class recognition supports a new type of recognizer that provides better accuracy, especially with recognizers that you have trained yourself. The new recognizer type is named `Generation4`. New pre-trained `Generation4` recognizers are available in the pre-trained models package (`ObjectClassRecognizer_Gen4_CommonObjects80.dat` and `ObjectClassRecognizer_Gen4_Surveillance.dat`).
- Media Server caches more information in memory, to reduce the number of queries sent to the database during process actions that include image classification or object class recognition. Previous versions of Media Server cached the models needed to classify images or recognize objects. Media Server 12.9 also caches associated data, such as class names and metadata.
- The performance of object class recognition has improved when the source media has a non-square aspect ratio. The improvement is most noticeable when processing on a CPU (rather than a GPU), with wider aspect ratios such as 16:9. Media Server completes processing these images and video frames in less time than before.
- Media Server generates a unique `id` for each clothing analysis result, so that you can match color clusters to the correct clothing result when you analyze multiple clothing regions. This was not possible in previous version of Media Server, because the clothing analysis results for the full body, upper body, and lower body all had the same `id`. Consequently, the `id` in a clothing analysis result no longer corresponds to a detected face or recognized person, but a new `parentID` element has been added to contain the identifier of the input record.
- Number plate recognition has been enhanced. Media Server supports some new number plate formats introduced recently in the United Arab Emirates. Accuracy has also been improved for UAE plates, particularly those from Abu Dhabi. Some additional number plate formats were added for Taiwan and accuracy has been improved for Taiwanese plates.
- Face recognition accuracy has improved. After upgrading to Media Server 12.9, re-train all of the faces in your training database by running the action `BuildAllFaces`.
- OCR accuracy has improved when `OCRMode=scene`.
- Media Server always uses the extension `.xml` for pre-XML output files, regardless of the extension you set in the `XMLOutputPath` parameter. This is helpful in cases where your post-XML is in another format and has a different file extension, such as `.idx`.
- The response of the `process` action (that you see using the `QueueInfo` action when you run the `process` action asynchronously) includes a new `<configname>` element that identifies the configuration that was used to process the media. The element can contain a path, a file name, or the value "Base64 data".
- The speech-to-text language pack for Spanish (ESES - 16kHz broadband) has been improved.
- ACI servers can now communicate with a License Server instance that requires a GSSAPI authenticated connection (that is, where the License Server configuration has `RequireGSSAuth`

set to **True**). To allow this communication, you must set `GSSServiceName` in the `[License]` section of the configuration file to the GSSAPI service name of the License Server. For example:

```
[License]  
GSSServiceName=LICENSESERVER
```

- The third-party OpenSSL library has been updated to 1.1.1.j.
- The `Admin`, `Help`, `LoadDoc`, and `LoadImage` actions now set the HTTP response header `Content-Security-Policy`, to improve security against cross-site scripting. If the `Content-Type` header is set, these actions also set the header `X-Content-Type-Options: nosniff`.

Resolved Issues

The following issues were resolved in Media Server version 12.9.0.

- Media Server could terminate unexpectedly when processing some PDF files.
- Object class recognition training could fail when there was a space in the name of a recognizer or the absolute path of the Media Server directory.
- Optical Character Recognition could use more threads than specified by the NumParallel parameter, for part of its analysis.
- Media Server could terminate unexpectedly when records contained a large number of nested elements and those records were processed by a Lua script.
- After training image classification or object class recognition, any attempt to run another action that required the GPU would result in the error "attempted to use too much GPU memory". This issue was only present in Media Server version 12.8.1 and occurs only when GPU acceleration is enabled.
- Media Server would terminate unexpectedly on startup, when run on Linux with GPU acceleration enabled.
- Media Server could stop responding when running GPU-enabled ANPR, Face Recognition, Image Classification, or Object Class Recognition on either Windows or Linux.

Notes

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

- Media Server 12.9 generates a unique `id` for each clothing analysis result, so that you can match color clusters to the correct clothing result when you analyze multiple clothing regions. Consequently, the `id` in a clothing analysis result no longer corresponds to a detected face or recognized person, but a new `parentID` element has been added to contain the identifier of the input record.
- Face recognition accuracy has improved. After upgrading to Media Server 12.9, re-train all of the faces in your training database by running the action `BuildAllFaces`.
- The XML output engine has a new parameter, named `OutputPath`, for setting the path of the output files. The parameter `XMLOutputPath` is now optional, and specifies the path of pre-XML output for debugging purposes. This means that `XMLOutputPath` now has the same purpose for all output engines. Micro Focus recommends that you update your XML output task configurations by adding the parameter `OutputPath`.
- The default value of the OCR configuration parameter `wordRejectThreshold` has been changed from 1 to 0.

Deprecated Features

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

Category	Deprecated Feature	Deprecated Since
Session configuration	The <code>RestrictToInputRegion</code> configuration parameter has been deprecated. Micro Focus recommends setting <code>Region=Input</code> 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: <ul style="list-style-type: none">• <code>BorderUnit</code> (Crop transformation)• <code>CharHeightUnit</code> (Number plate recognition, text detection)• <code>PathUnit</code> (Path alerts)• <code>RegionUnit</code>• <code>SizeUnit</code> (Face detection, object recognition, persistent change detection)• <code>TripwireUnit</code> (Tripwire alerts)	12.7.0

	<p>Micro Focus recommends that you update your session configurations. For example, if you have a configuration that sets the <code>Region</code> 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 become invalid.</p>	
ACI Encryption	<p>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 <code>GSSServiceName</code> and <code>RequireGSSAuth</code> parameters.</p>	12.6.0
Databases	<p>The <code>ODBCDriverManager</code> parameter (in the <code>[Database]</code> section of the Media Server configuration file, and for output engines that use ODBC). You no longer need to set this parameter.</p>	12.6.0
Actions	<p>The <code>GetLatestRecord</code> action. The new actions <code>KeepLatestRecords</code> and <code>GetLatestRecords</code> provide more control over what to store and retrieve.</p>	12.5.0
Event Stream Processing	<p>The <code>MinTimeInterval</code> and <code>MaxTimeInterval</code> parameters for the <code>And</code>, <code>AndThen</code>, <code>AndAny</code>, <code>AndThenAny</code>, <code>AndNot</code>, <code>AndNotThen</code>, and <code>Combine</code> engines. Micro Focus recommends using the new configuration parameter <code>TimestampCondition</code> instead.</p>	12.3.0
Server / Service	<p>The <code>AdminClients</code>, <code>QueryClients</code>, <code>ServiceControlClients</code>, and <code>ServiceStatusClients</code> configuration parameters. Micro Focus recommends that you use authorization roles instead.</p>	11.5.0
Rolling buffer	<p>The action parameter name, available on the actions <code>AddStream</code>, <code>EditStream</code>, <code>GetStreamInfo</code>, <code>PreAllocateStorage</code>, and <code>RemoveStream</code>. Micro Focus recommends that you use the parameter <code>stream</code>, instead.</p> <p>The action parameters <code>OldName</code> and <code>NewName</code>, on the action <code>RenameStream</code>. Micro Focus recommends that you use the parameters <code>Stream</code> and <code>NewStream</code> instead.</p>	11.4.0

Removed Features

The following deprecated features have been removed.

- All deprecated fields have been removed from the output of Audio Matching and Speaker ID.

Documentation

The following documentation was updated for Media Server version 12.9.0.

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