



Hewlett Packard
Enterprise

HPE Speech Server

Software Version: 11.2.0

IDOL Speech Server Release Notes

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New in this Release

This section lists the enhancements to HPE Speech Server version 11.2.0.

- The server now supports normalization of Turkish (TRTR) and Hindi (HIIN).
- Audio preprocessing now uses improved Deep Neural Network (DNN) technology which requires less tailoring of thresholds to specific audio types.

You can use the new `appDnnBase` parameter to specify the location of the DNN and normalization files necessary to perform audio frame categorisation. The new `frameDupl` parameter enables you to balance performance against speed for audio preprocessing DNN classification.

In addition, the algorithm now discriminates between music and noise, rather than recognizing `<music/noise>` as a joint category.

All tasks in the `speechserver-tasks.cfg` file use the new DNN-based algorithm, but the old algorithm still exists for backward compatibility and can be used exactly as before.

- The `FrameDupl` parameter has been added to the `LidFeature` module, and to the `LangIdSegWav`, `LangIdCumWav`, `LangIdSegStream`, `LangIdCumStream`, and `LangIdFeature` tasks. The default value for the module parameter is 0, but in all the standard tasks the default is 2. This means that processing speed in this release is significantly improved out-of-the-box. In addition, you can tune the `FrameDupl` parameter settings to balance accuracy against processing speed. For more information, refer to the *HPE IDOL Speech Server Reference*.
- The `SSLMethod` configuration parameter now supports TLSv1.2. For example:

```
[SSLOption0]  
SSLMethod=TLSV1.2
```
- The OpenSSL version was upgraded from 1.0.2d to 1.0.2i.

Resolved Issues

This section lists the resolved issues in HPE Speech Server version 11.2.0.

- This release resolves an issue with the transcript alignment functionality. This issue sometimes led to the alignment failing, and an error message that suggested there was an issue with the beam setting.
- An issue has been resolved whereby the audio classification results produced by the audiopreproc processing module could occasionally be truncated.
- The code that manages class word files and pronunciation files is now more robust, and features enhanced error checking.
- Previously, the `SampleFrequency` parameter in the `audioTemplateTrain` module had an invalid default parameter. As a result, you had to set the parameter explicitly. If this parameter was not set, the server returned an error. In this release, the parameter now has a default value. This means that you need to set it only if you need to use a different sample frequency (for example, 8 kHz for telephony data).
- Previously, attempting to load a resource pack that had been repaired (for example, to add missing dictionaries and so on) failed, with the same error that occurred correctly when attempting to load the unrepaired resource pack. This issue has now been resolved.
- The server would not correctly retrieve a license from a License Server with SSL enabled.
- The `GetLicenseInfo` action did not return the correct value for the `<autn:expirydays>` tag.

Notes

These notes provide extra information about installing and using HPE Speech Server.

- Installation on Linux requires the following software:
 - GLIBC_2.3.2
 - GLIBCXX_3.4.20
 - GCC_4.8.0
- If you install IDOL Speech Server 11.2.0 using the IDOL 11.2.0 installer program, you must ensure that you have a Speech Server license key in addition to the standard IDOL Server license key. The IDOL Server license key does not contain licensing information for Speech Server, and Speech Server cannot run using it.
- The Solaris operating system does not support the audio fingerprinting feature in Speech Server.

Documentation

The following documentation was updated for this release.

- *IDOL Speech Server Administration Guide*
- *IDOL Speech Server Reference*