**1. Background**

Teams working to train Speech-to-Text Models for Custom Language Models and Acoustic Models will need to do the following steps in Development as well as Production as currently there is not a supported vehicle for moving fully trained models from Development to Production.

Replace {username} and {password} in the commands below with the appropriate credentials for the Speech-To-Text service instance. If using Identity and Access Management (IAM) API Key, replace {username}:{password} with “*apikey:{apikey}*” where {*apikey*} is the IAM API Key value for the Speech-To-Text service instance.

**2. Create a Custom Speech-to-Text Model**

curl -X POST -u "{username}:{password}"

--header "Content-Type: application/json"

--data "{\"name\": \"Custom model name \",

\"base\_model\_name\": \"en-US\_BroadbandModel\", \

\"description\": \"Custom Model Description\"}" \

"https://stream.watsonplatform.net/speech-to-text/api/v1/customizations"

**[Note: returns a unique "customization\_id" ]**

**3. Add Training Data to Custom Language Model using a Corpus File**

**Example corpus file**

What days does United Postal Service delivery Amazon Packages?

How many packages can be delivered in a single day?

How do I contact customer service?

**Command to upload data from Corpus File**

CUSTOMIZATION\_ID=<customization id returned when creating custom model>

CORPUS\_FILE=<text file containing training data>

CORPUS\_NAME=<naming convention used to identify training data - i.e. trainingDataV1 ]

URL=”https://stream.watsonplatform.net/speech-to-text/api/v1”

curl -X POST $INSECURE -i -u "{username}:{password}" \

--data-binary "{<path>/CorpusFileName}" \

"$URL/customizations/{customization\_id}/corpora/{CorpusName}"

**Example of commands to upload single words (if not using Corpus File)**

Note: Example uses TCP/IP

curl -X PUT -u "{username}:"${password}" \

--header "Content-Type: application/json" \

--data "{\"sounds\_like\": [\"T. C. P. I. P.\"], \"display\_as\": \"TCP/IP\"}" \

"$URL/customizations/$CUSTOMIZATION\_ID/words/tcpip"

**4. Train Custom Language Model**

This step is required to run after any upload of data from a Corpus File or Single-word upload. If this is not run, the data uploaded will not be available for use by the Custom STT model.

curl -X POST -u "{username}":"{password}" \

"https://stream.watsonplatform.net/speech-to-text/api/v1/customizations/{customization\_id}/train"

Note: depending upon amount of data provided for training, can take mins or several hours

**5. Validate Training Completion**

curl -X GET  -u "<username>":"{password} \  
      "https://stream/watsonplatform.net/speech-to-text/api/v1/customizations/{customization\_id}/corpora/{CorpusName}

**6. Delete Custom Language Model**

curl -X DELETE  -u "{username}":"{password" \  
  "https://stream.watsonplatform.net/speech-to-text/api/v1/customizations/{customization\_id}"