NATIONAL SECURITY AGENCY CENTRAL SECURITY SERVICE

(U) Classification Guide for Human Language Technology (HLT) Models 2-20

Effective Date: 18 May 2011

CLASSIFIED BY:

Deputy Director for Analysis and Production

Classification Category: 1.4 (c)

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ENDORSED BY:

Deputy Associate Director for Policy and Records

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(U) Human Language Technology (HLT) Models, 2-20

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ORIGINAL CLASSIFICATION AUTHORITY: (U//FOUO) Deputy

Director for Analysis and Production

| Description of Information | Classification/ Markings | Category | Declass | Remarks |
|--------------------------------------------------------------------------------------|-----------------------------|----------|---------|-----------------------------------|
| A. (U) General | Wigi Kings | | | |
| A.1. (U) The fact that NSA/CSS has created | UNCLASSIFIED | T N/A | N/A | |
| HLT models used for: | | | | |
| Gender recognition | | | | |
| Language | | | | |
| Language variety/dialect recognition | | | | |
| Speaker recognition | | | | |
| Speech-to-text processing | | | | |
| Speech activity detection | | | | |
| Anomaly detection | | | | |
| Phonetic recognition | | | | |
| A.2. (U) The fact that HLT models are | UNCLASSIFIED | N/A | N/A | |
| obtained, at least in part, by aggregating | | | | |
| statistics derived from SIGINT collection | | | | |
| A.3. (U) The fact that HLT models allow for | UNCLASSIFIED | N/A | N/A | |
| collected audio files to be sorted and | | | | |
| prioritized for linguists | | | | |
| A.4. (U) The fact that statistics in a model | UNCLASSIFIED | N/A | N/A | |
| can be generated from one or many audio | | | | |
| files | TINIOT LOCIDIDE | 27// | 37/4 | |
| A.5. (U) The fact that new models are | UNCLASSIFIED | N/A | N/A | |
| regularly generated, adding to the aggregate | | | | |
| nature of the model A.6. (U) The fact that SIGINT voice | UNCLASSIFIED | N/A | N/A | (U) Further details such as which |
| collection (not further identified) can be | UNCLASSIFIED | INA | IN/A | specific language, or dialect, or |
| identified as: | | | | speaker are classified. Consult |
| male or female | | | | applicable SIGINT guidance. |
| a specific language | | | | Lippinous a Cross to Suremine of |
| a specific language a specific language variety/dialect | | | | |
| a specific speaker | | | | |
| a sequence of words | | | | |
| speech or nonspeech | | | | |
| A.7. (U) HLT models used for: | See Remarks | <u> </u> | | (U//FOUO) The classification of |
| Gender recognition | | | | HLT models used for Gender and |
| Language recognition | | | | Language Recognition is |
| | | | | dependent upon the classification |
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| | <u>-</u> | | foreign releasability should be in |

| Dhama' a la d'ad | T | Т | | Laggordanes with the bishest |
|-------------------------------------------------|-----------------------------|-------|-------|-------------------------------------------------------------------|
| Phonetic tokenization | | | | accordance with the highest classification and most restrictive |
| | | 1 | | releasability that applies to the |
| | | | | targeted entities and/or content of |
| | | | | the messages used in the model. |
| | | | | the messages used in the moder. |
| | | | | (U) The Deputy Director for |
| | | | | Analysis and Production may |
| | | | | approve, on a case-by-case basis, |
| | | | | foreign release of models |
| | | | | containing otherwise non- |
| A 11 (II) Chaoch noticity detection deli- | LINCL ACCIDIDA | NT/A | NT/A | releasable information. |
| A.11. (U) Speech activity detection models | UNCLASSIFIED// FOR OFFICIAL | N/A | N/A | |
| using syllable rate speech activity detection | | | | |
| (SRSAD) | USE ONLY | NT/A | NT/A | + |
| A.12. (U) Anomaly detection models | UNCLASSIFIED// FOR OFFICIAL | N/A | N/A | |
| | USE ONLY | | | |
| B. (U) Model | 1 OSE ONE! | | | <u> </u> |
| Output | | | | |
| | UNCLASSIFIED// | N/A | N/A | (II) Results generally indicate the |
| B.1 (U) Output of language recognition models | FOR OFFICIAL | 14/14 | 14/14 | (U) Results generally indicate the recognized language and the |
| HOUCIA | USE ONLY | | | degree of confidence in the |
| | OSL OIALI | | | determination, e.g. "Farsi with |
| | | | | 90% confidence." This |
| | | | | information may require protection |
| | | | | as classified when combined with |
| | | | | other details regarding the input |
| | | | | data. |
| B.2. (U) Output of gender recognition | UNCLASSIFIED// | N/A | N/A | (U) Results generally indicate the |
| models | FOR OFFICIAL | | | recognized gender and the degree |
| | USE ONLY | | | of confidence in the determination, |
| | | | | e.g. "Male with 75% confidence." |
| | | | | This information may require |
| | | | | protection as classified when |
| | | | | combined with other details |
| | | | | regarding the input data. |
| B.3. (U) Output of speaker recognition | See Remarks. | | | (U) Classification and foreign |
| models | | | | releasability of the results should |
| D ((ID C) + C + C + C + C + C + C + C + C + C | C D 1 | - | - | be the same as the input data. |
| B.4. (U) Output of acoustic speech-to-text | See Remarks. | | | (U) Classification and foreign |
| and phonetic tokenization models | | | | releasability of the results should |
| D.5. (II) Outmut of language angels to tout | Can Damarla | 1 | | be the same as the input data. |
| B.5. (U) Output of language speech-to-text | See Remarks. | | | (U) Classification and foreign |
| and phonetic tokenization models | | | | releasability of the results should be the same as the input data |
| | | | | unless the results reveal specific |
| | | | | information used in the model that |
| | | | | is protected at a higher level than |
| | | | | the input data; in this case, the |
| | | | | results require protection at the |
| | | | | level of the model. |
| | <u> </u> | | | lever of the model. |

(U) Note: Declassification in 25 years indicates that the information is classified for 25 years from the date a document is created or 25 years from the date of this original classification decision, whichever is later.