CALIBRATION GUIDE
VOIXTREME ESSENTIALS EDITION

This document will guide you through the configuration of the Calibration file _vxt_calibratelist.txt.

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The _vxt_calibratelist.txt file contains the list of the words to say during the Calibration procedure.

```
D;0;0;Dites 0
D;1;1;Dites 1
D;2;2;Dites 2
D;3;3;Dites 3
D;4;4;Dites 4
D;5;5;Dites 5
D;6;6;Dites 6
D;7;7;Dites 7
D;8;8;Dites 8
D;9;9;Dites 9
D;11;11;Dites 11
D;12;12;Dites 12
D;19;19;Dites 19
D;20;20;Dites 20
D;21;21;Dites 21
D;22;22;Dites 22
D;25;25;Dites 25
```

The way to process this file is basically configured in the _vxt_configuration.jcf file, inside the "Calibrate" parameter

```
"Calibrate": {
  "Portrait": true,
  "TargetReliability": 5000,
  "HeadsetType": 1,
  "TargetOk": 2,
  "SequenceMode": 0,
  "AsrType": "H",
  "ExtraGrammars": "0123456789",
  "AnnounceOk": "valide",
  "AnnounceNER": "réconnu",
  "AnnounceER": "invalide",
  "Welcome": "Procédure de calibrage vocal",
  "Goodbye": "Fin calibrage"
},
```

Some of them related with the Calibrate List file are:

TargetReliability	Minimum reliability level necessary to validate a recognition.
TargetOk	It defines the number of valid recognitions requested to terminate the calibration procedure.
SequenceMode	Mode to process the calibrate file 0: the words are selected at random 2: sequential
AsrType	ASR mode of the calibrate input. D= Separated digits (i.e. "one two five" for "125") E= Double Digits, up to 99 (i.e.: "twenty one" for "21") H= Hundreds, up to 999 (i.e.: "two hundred and seventy eight" for "278") K= Kilos, from 0 to 9999 (i.e.: "eleven forty eight" for "1148") LIST= use the AsrType (first parameter) from the _vxt_calibratelist.txt file

CALIBRATE VALUES DEFINITION

```
D;5;5;Dites 5.;0
D;6;6;Dites 6.;0
D;7;7;Dites 7.;0
D;8;8;Dites 8.;0
D;9;9;Dites 9.;0
D;11;11;Dites 11.;0
D;12;12;Dites 12.;0
D;19;19;Dites 19.;0
```

CALIBRATE VALUES DEFINITION
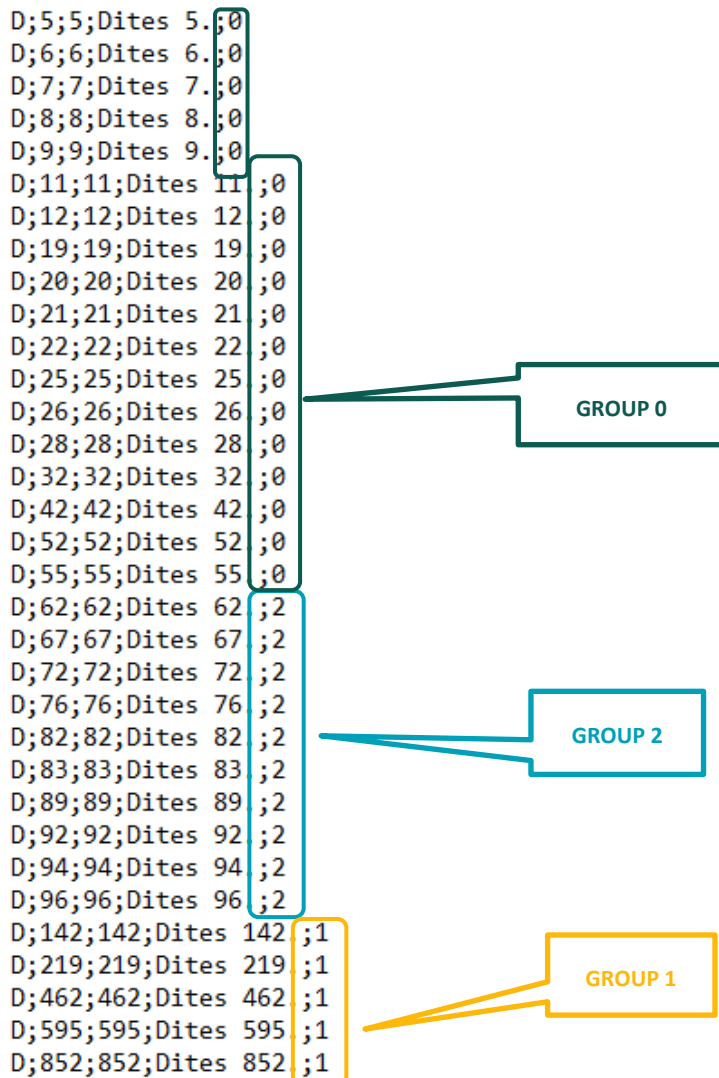*(starting from left to right)*
AsrType
Expected value
Value displayed
Text to be said by the system
Order/Group/Round

```
D;5;5;Dites 5.;0
D;6;6;Dites 6.;0
D;7;7;Dites 7.;0
D;8;8;Dites 8.;0
D;9;9;Dites 9.;0
D;11;11;Dites 11;0
D;12;12;Dites 12;0
D;19;19;Dites 19;0
D;20;20;Dites 20;0
D;21;21;Dites 21;0
D;22;22;Dites 22;0
D;25;25;Dites 25;0
D;26;26;Dites 26;0
D;28;28;Dites 28;0
D;32;32;Dites 32;0
D;42;42;Dites 42;0
D;52;52;Dites 52;0
D;55;55;Dites 55;0
D;62;62;Dites 62;2
D;67;67;Dites 67;2
D;72;72;Dites 72;2
D;76;76;Dites 76;2
D;82;82;Dites 82;2
D;83;83;Dites 83;2
D;89;89;Dites 89;2
D;92;92;Dites 92;2
D;94;94;Dites 94;2
D;96;96;Dites 96;2
D;142;142;Dites 142;1
D;219;219;Dites 219;1
D;462;462;Dites 462;1
D;595;595;Dites 595;1
D;852;852;Dites 852;1
```

GROUP 0

GROUP 2

GROUP 1

GROUP 1: The group 1 will be the first to say to the user. If the user says it correctly, the system will say the next group (in our example the group "2")

GROUP 2: In case there is no group 2 configured, 0 will be the next group of inputs processed.

GROUP 0: Last group of inputs processed by the Vocal Engine (in case there are other groups)

EXAMPLE 1 – Calibrate.TargetOk: 2

> First process the group 1 until a valid recognition is done

SYSTEM>> Dites 595 -> Input from the **group 1** to be said by the user

USER>> 596 -> Not valid recognition

SYSTEM>> Dites 219 -> The system selects another Input from the **group 1** to be said by the user, because the first input was incorrect

USER>> 219 -> Valid recognition

SYSTEM>> Dites 83 -> Input from the **group 2** to be said by the user

USER>> 83 -> Valid recognition

> Then process the group 2 in the same way

SYSTEM>> **End of Calibration**

If we configure the _vxt_configuration.jcf file with the default value for the parameter Calibrate.TargetOk: 2, then, in the example, we should have finished, because we've done two valid recognitions (219 and 83)

_vxt_configuration.jcf (set the default values)

```
"Calibrate": {
  "Portrait": true,
  "TargetReliability": 5000,
  "HeadsetType": 1,
  "TargetOk": 2,
  "SequenceMode": 0,
  "AsrType": "H",
```

EXAMPLE 2 – Calibrate.TargetOk: 5

If we've set the Calibrate.TargetOk: 5

> First process the **group 1** until a valid recognition is done
> *Total of valid recognitions: 1*

SYSTEM>> **Dites 595** -> Input from the **group 1** to be said by the user

USER>> 596 -> Not valid recognition

SYSTEM>> **Dites 219** -> The system selects another Input from the **group 1** to be said by the user, because the first input was incorrect

USER>> 219 -> Valid recognition

SYSTEM>> **Dites 83** -> Input from the **group 2** to be said by the user

USER>> 93 -> Not-valid recognition

> Then process the g**roup 2** in the same way
> *Total of valid recognitions: 2*

SYSTEM>> **Dites 72** -> The system selects another Input from the **group 2** to be said by the user, because the first input was incorrect

USER>> 72 -> Valid recognition

SYSTEM>> **Dites 25** -> Input from the **group 0** to be said by the user

USER>> 25 -> Valid recognition

SYSTEM>> **Dites 6** -> Input from the **group 0** to be said by the user

> Finally, the **group 0**
> *Total of valid recognitions: 5*

USER>> 6 -> Valid recognition

SYSTEM>> **Dites 52** -> Input from the **group 0** to be said by the user

USER>> 52 -> Valid recognition

SYSTEM>> **End of Calibration**

As we mention above, in the _vxt_configuration.jcf file we can set the parameter AsrType:

AsrType	ASR mode of the calibrate input. D= Separated digits (i.e. "one two five" for "125") E= Double Digits, up to 99 (i.e.: "twenty one" for "21") H= Hundreds, up to 999 (i.e.: "two hundred and seventy eight" for "278") K= Kilos, from 0 to 9999 (i.e.: "eleven forty eight" for "1148") LIST= use the AsrType (first parameter) from the _vxt_calibratelist.txt file

By default, we can set its value to D, E, H, K... but if we configure this parameter with the "LIST" value, we can process a _vxt_calibratelist.jcf in the following way:

ASR as **Double Digits**

```
E;11;11;Diga 11.;0
E;12;12;Diga 12.;0
E;19;19;Diga 19.;0
E;20;20;Diga 20.;0
E;21;21;Diga 21.;0
E;22;22;Diga 22.;0
E;25;25;Diga 25.;0
```

ASR as **Separated Digits**

```
D;26;26;Diga 26.;0
D;28;28;Diga 28.;0
D;32;32;Diga 32.;0
D;42;42;Diga 42.;2
D;52;52;Diga 52.;2
D;55;55;Diga 55.;2
D;62;62;Diga 62.;0
D;67;67;Diga 67.;0
```

ASR as **Hundreds**

```
H;774;774;Diga 774.;1
H;175;175;Diga 175.;1
H;182;182;Diga 182.;1
H;192;192;Diga 192.;1
H;493;493;Diga 493.;1
E;97;97;Diga 97.;1
E;98;98;Diga 98.;1
E;99;99;Diga 99.;1
```

Each input in the Calibrate list will be processed as its correspondent Asr type.