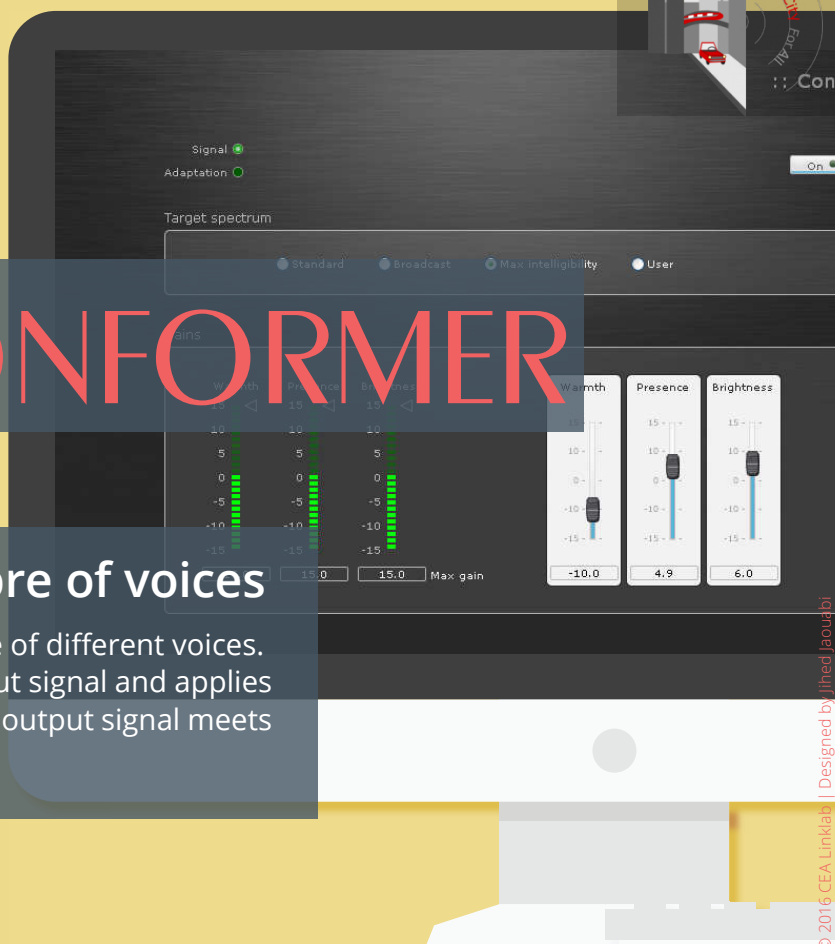# SPEECH CONFORMER

Easily homogenizes the timbre of voices

The Speech conformer homogenizes the timbre of different voices. The algorithm analyses the spectrum of the input signal and applies the necessary gains so that the spectrum of the output signal meets the target spectrum chosen by the user.

Two steps to homogenize voice spectra

1

Specify the target spectrum

·Standard: IEC60268-16 female
·Broadcast: with emphasis on warmth
·Max intelligibility: with emphasis on presence
·Free user: specification with cursors

2

Visualize and tweak the Gain in bands warmth, Presence and Brightness

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Principle

The Speech Conformer algorithm :

- 4 band analysis (warmth : 70-200Hz ; reference 200-1500Hz ; Presence : 1.5-6kHz ; Brightness : >6kHz).

- user specifies a target spectrum (Female voice as per IEC60268-16 in l'city).

- Level is computed in the 4 bands.

- Gain in bands warmth, Presence and Brightness are computed using a dual rate scheme.

Speech Conformer Diagram

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