



Nabaztag API (V2)

What is this about ?

How to send an event ?

L'API in Brief

API is the possibility to activate, from an exterior application, an event on your Nabaztag. (Modification of the speed display, command of the ears, command of the leds, sending of message in TTS or on a Nabcast)

Here is version 2 of the API, following the version 1.

Do not hesitate to contact us if you wish to implement additional functionalities.
(idee@nabaztag.com, Object: API).

To use API and send events on Nabztags, you must, from now on, register here :
http://www.nabaztag.com/vl/FR/nabaztaland_api_inscription.jsp

How to send an event ?

You simply have to call the url **<http://www.nabaztag.com/vl/FR/api.jsp>** with the following parameters :

Key	It is the number which we have given to you and that will allow to use API.
sn	Serial number of the Nabaztag that will receive the events
idmessage	The number of the message to send. This number can refer to a message in the Library or a personal MP3 file that you have downloaded. You find this identification number under the title's track you are listening to.
posright	Position of the right ear between 0 et 16 (0=ear horizontal)
posleft	Position of the left ear
token	The token is a series of digits given when you activate the Nabaztag receiver. This means of identification limits the risks of spam, since, in order to send a message, you need to know both the serial number and the token.
idapp	It is your application ID. It will allow to authenticate the event's transmitter. This parameter is not yet in service.
tts	Allows to send a text configured for speech synthesis.
chor	Sending of a choreography on your Nabaztag
chortitle	Associates a name to the choreography
ears=ok	Dispatching position of the ears
nabcast	Allows to send a message in a Nabcast
ttlive	Allows to define the length of time you want a message to remain on the site. (in seconds). To default, the message will be stocked for a period of two months.
voice	Allow to choose the voice that will read the message
speed	Allows to choose the reading speed of the message.
pitch	To modulate the voice's frequency

For example :

<http://www.nabaztag.com/vl/FR/api.jsp?key=431561751&sn=00039D4022DE&token=112231049046144&posleft=0&posright=0&idmessage=10333&idapp=10>

How to send a message in text-to-speech (TTS) in the Nabcast that has ID 52 with as a title : *monttsdansmonnabcast* ?

api.jsp? ... nabcast=52&nabcasttitle=monttsdansmonnabcast&tts=le+nabcast

How to send message 10333 in the Nabcast witID 52 with, as a sound title's : *monmp3dansmonnabcast* ?

api.jsp? ... nabcast=52&nabcasttitle=*monmp3dansmonnabcast*&idmessage=10333

Activate reception of events on a Nabaztag.

1. Go to http://www.nabaztag.com/vl/FR/api_prefs.jsp
2. Check « Autoriser les événements extérieurs » puis Valider
3. The « token » is displayed.

You must use it to send messages from your application.

Info : If you deactivate and reactivate events, a new token will be sent to you.

Description of a choreography's language

A choreography is a series of actions that allows to commande the led and ears display.

The choreography is mainly based on a tempo, that is adjustable. Once the tempo is set, actions will be sequenced to the rythm of the tempo. Each action is ran at a precise moment, that will be called "l'heure" (time) of the action : This time is expressed by the number of beat to the tempo from the beginning of the choreography.

For example, with a tenth of a second tempo, the action associated with « l'heure » (time) '10' will happen a second after the beginning of the choreography. The action associated with "l'heure" '25' will happen 2.5 seconds after the beginning of the choreography...

The choreography's syntax is a series of words or numbers, separated with a comma. The numbers are always integers and positives, expressed on a basis of 1 to 10. Words are exclusively one of the two key words : motord, led.

This series begins with the tempo value, the carries on with a succession of motor or led actions.

Each action (motor or led) begins with 'l'heure' (time) (expressed by the number of beats to the tempo since the beginning of the chorégraphie), followed with the nam of the command (motor or led), and a variable number of arguments

Si deux actions ont la même heure, elles seront effectuées simultanément. If two actions are commanded at the same time they will be carried out at the same time.

1. Tempo command

Le tempo is expressed in Hz. « 10 » represents a tenth of a second tempo.

2. Ears command

It is a series of values separated with commas.
The command is the following :

1. First argument : Action time ('l'heure')
(Hence « 0 » if it is the first command.)
2. Second argument : 'motor', to move an ear
3. Third argument : Ears command
1 to command left ear
0 to command right ear
4. Fourth argument : Ears angles positions
Possible value from 0 to 180.
5. Fifth argument : Unused, set at 0
6. Sixth argument : Rotation of the ears directions
1 : high->back->low->front->high...
0 : high->front->low->back->high...

Example of a command that makes the left ear turn counter clockwise with a 20° angle, at « l'heure » (time) « 0 ».

→ 0,motor,1,20,0,0

3. Leds command

It is a series of values separated by commas.

1. First argument : action time (` l'heure `)

(Hence « 0 » if it is the first command).

2. Second argument : `led` , which gives a color to the led.

3. Third argument : To define the color of the led you want to change.

0 : low led
1 : rabbit's left led
2 : middle led
3 : rabbit's right led
4 : high led

4. Fourth, Fifth, Sixth argument : the color in RGB.

Value from 0 to 255

Example of a command that makes the middle led go green, then the left one go red then the middle one lights off.

→ 0,led,2,0,238,0,2,led,1,250,0,0,3,led,2,0,0,0

4. Combination of ears and leds command

To combine the three actions, with the initial tempo parameters

→ 10,0,motor,1,20,0,0, 0,led,2,0,238,0,2,led,1,250,0,0,3,led,2,0,0,0

5. Choose the voice for the TTS

You can choose the voice that will read the message.

French voices :

- julie22k
- claire22s

English voices :

- graham22s
- lucy22s

- heather22k
- ryan22k
- aaron22s
- laura22s

To default, we will use claire22's voice for french and heather22k for english.