



Language Manual

HQ North American Spanish

Language Manual: HQ North American Spanish

Published 17 March 2011

Copyright © 2008-2011 Acapela Group

All rights reserved

This document was produced by Acapela Group. We welcome and consider all comments and suggestions. Please, use the *Contact Us* link at our website:

<http://www.acapela-group.com>

Table of Contents

1. General	1
2. Letters in orthographic text	2
3. Punctuation characters	3
3.1. Comma, colon and semicolon	3
3.2. Quotation marks	3
3.3. Full stop	3
3.4. Question mark	3
3.5. Exclamation mark	3
3.6. Parentheses, brackets and braces	3
4. Other non alphanumeric characters	4
4.1. Non-punctuation characters	4
4.2. The ² and ³ signs	4
4.3. Symbols whose pronunciation varies depending on the context	5
5. Number Processing	6
5.1. Full number pronunciation	6
5.2. Leading zero	7
5.3. Decimal numbers	7
5.4. Currency amounts	7
5.5. Ordinal numbers	8
5.6. Arithmetic operators	8
5.7. Mixed digits and letters	9
5.8. Time of day	9
5.9. Dates	10
5.10. Phone numbers	11
6. How to change the pronunciation	13
6.1. User lexicon	13
6.2. Alternative Spelling	13
7. North American Spanish Phonetic Text	14
7.1. Consonants	14
7.2. Vowels	15
7.3. Foreign sounds	15
7.4. Lexical stress	16
7.5. Glottal stops	16
7.6. Pause	16
8. Abbreviations	17
9. Web-addresses and email	19

List of Tables

4.1. Non-punctuation characters	4
7.1. Symbols for the North American Spanish consonants	14
7.2. Symbols for the North American Spanish vowels	15
7.3. Foreign sounds	15
8.1. Abbreviations	17

Chapter 1. General

This document discusses certain aspects of text-to-speech processing for the European Spanish text-to-speech system, in particular the different types of input characters and text that are allowed.

This version of the document corresponds to the High Quality (HQ) voices Maria, Antonio and Inés and the High Density (HD) voice Javier.

Please note that the *User's Guide*, mentioned several times in the manual, is called *Help* in some applications.

Note: This language manual is general and applies to all Acapela Group HQ and HD Spanish voices specified above. One or more of the voices may be included in a certain Acapela Group product.

Note: For efficiency reasons, the processing described in this document has a different behaviour in some Acapela Group products. Those products are:

- Acapela TTS for Windows Mobile
- Acapela TTS for Linux Embedded
- Acapela TTS for Symbian



For these products, the default processing of numbers, phone numbers, dates and times has been simplified for the low memory footprint (LF) voice formats. Developers have the possibility to change the default behaviour from *simplified* to *normal* preprocessing by setting corresponding parameters in the configuration file of the voice. Please see the documentation of these products for more information. In the following chapters, each simplification will be described by the indication *[not SP]* following the description of the standard behaviour. The *SP* in the indication stands for *Simplified Processing*.

Chapter 2. Letters in orthographic text

Characters from the ranges A-Z and a-z, as well as ñ, Ñ, á, Á, é, É, í, Í, ó, Ó, ú, Ú, ü, Ü may constitute a word. Certain other characters are also considered as letters, notably those used as letters in other European languages, i.e. è, ð, å.

Characters outside of these ranges, i.e. numbers, punctuation characters and other non-alphanumeric characters, are not considered as letters.

Chapter 3. Punctuation characters

Punctuation marks appearing in a text affect both rhythm and intonation of a sentence. The following punctuation characters are permitted in the normal input text string: , ; “ ” . ¿ ? ¡ !
() { } []

3.1. Comma, colon and semicolon

Comma ',', colon ':' and semicolon ';' cause a brief pause to occur in a sentence, accompanied by a small rising intonation pattern just prior to the character.

3.2. Quotation marks

Quotes "" appearing around a single word or a group of words cause a brief pause before and after the quoted text.

3.3. Full stop

A full stop '.' is a sentence terminal punctuation mark which causes a falling end-of-sentence intonation pattern and is accompanied by a somewhat longer pause. A full stop may also be used as a delimiter between thousands in full numbers or a decimal marker in a number (see chapter *Number processing*) and in abbreviations (see chapter *Abbreviations*).

3.4. Question mark

A closing question mark '?' ends a sentence and causes question-intonation, first rising and then falling. The opening question mark '¿' is ignored.

3.5. Exclamation mark

The closing exclamation mark '!' is treated in a similar manner to the full stop, causing a falling intonation pattern followed by a pause. The opening exclamation mark '¡' is ignored.

3.6. Parentheses, brackets and braces

Parenthesis '()', brackets '[''] and braces '{}' appearing around a single word or a group of words cause a brief pause before and after the bracketed text.

Chapter 4. Other non alphanumeric characters

4.1. Non-punctuation characters

The characters listed below are processed as non-letter, non-punctuation characters. Some are pronounced at all times and others are only pronounced in certain contexts, which are described in the following sections of this chapter.

Table 4.1. Non-punctuation characters

Symbol	Reading
/	barra
+	más
\$	dólar
£	libra
€	euro
¥	yen
<	menor que
>	mayor que
%	por ciento
^	acento circunflejo
	barra vertical
~	tilde
@	arroba
=	igual
²	(see below)
³	(see below)
-	(see below)
*	(see below)

4.2. The ² and ³ signs

The reading of expressions with ² and ³ is:

Expression	Reading
mm ²	milímetros cuadrados
cm ²	centímetros cuadrados
m ²	metros cuadrados
km ²	kilómetros cuadrados
mm ³	milímetros cúbicos
cm ³	centímetros cúbicos
m ³	metros cúbicos
km ³	kilómetros cúbicos

4.3. Symbols whose pronunciation varies depending on the context

4.3.1. Hyphen

A hyphen '-' is pronounced *menos* only if the input matches the patterns 'X-Y=' or '-X'. The hyphen is also used as a delimiter in dates (see chapter *Dates*), [not SP] and it can also indicate a range of years, days or hours. In these cases the hyphen is pronounced *a*.

In isolation and between digits in other formats than the above mentioned, the hyphen is pronounced '*guión*'. Multiple occurrences of hyphen are pronounced *guión guión guión....* In other cases the hyphen is never pronounced.

Expression	Reading	
-3	menos 3	
44-3	44 guión 3	
44-3=41	44 menos 3 son 41	
44 - 3 = 41	44 menos 3 son 41	
02-02-2002	dos de febrero de dos mil dos	
14-16 PM	14 a 16 de la tarde	[not SP]
Enero 12-14	enero 12 a 14	[not SP]
Feb 6-10	febrero 6 a 10	[not SP]
1998-2004	mil novecientos noventa y ocho a dos mil cuatro	[not SP]
ex-ministro	ex ministro	

4.3.2. Asterisk

Asterisk '*' is pronounced *multiplicado por* if enclosed by digits and followed by an equals sign '='. In other cases it is pronounced *asterisco*.

Expression	Reading
2*3	dos asterisco tres
2*3=6	2 multiplicado por 3 son 6
2*3=	2 multiplicado por 3 igual
*bc	asterisco b c

Chapter 5. Number Processing

Strings of digits that are sent to the text-to-speech converter are processed in several different ways, depending on the format of the string of digits and the immediately surrounding punctuation or non-numeric characters. To familiarise the user with the various types of formatted and non-formatted strings of digits that are recognised by the system, we provide below a brief description of the basic number processing along with examples. Number processing is subdivided into the following categories:

Full number pronunciation
Leading zero
Decimal numbers
Currency amounts
Ordinal numbers
Arithmetic operators
Mixed digits and letters
Time of day
Dates
Telephone numbers

5.1. Full number pronunciation

Full number pronunciation is given for the whole number part of the digit string.

Example

2425	full number
2.425	full number
24,25	24 is a full number, 25 is the decimal part

Numbers denoting thousands, millions and billions (numbers larger than 999) may be grouped using space or full stop (not comma). In order to achieve the correct pronunciation the grouping must be done correctly.

The rules for grouping of numbers are the following:

- Numbers are grouped in groups of three starting from the end.
- The first group in a number may consist of one, two, or three digits.
- If a group, other than the first, does not contain exactly three digits, the sequence of digits is not interpreted as a full number.
- The highest number read is 999999999999 (twelve digits). Numbers higher than this are read as separate digits.

Number	Reading
2580	dos mil quinientos ochenta
2 580	“
2.580	“
25800	veinticinco mil ochocientos
25 800	“
25.800	“
2580350	dos millones quinientos ochenta mil trescientos cincuenta

Number	Reading
2 580 350	“
2.580.350	“
1000000000	mil millones
123456789012	ciento veintitrés mil cuatrocientos cincuenta y seis millones setecientos ochenta y nueve mil doce
2123456789012	dos uno dos tres cuatro cinco seis siete ocho nueve cero uno dos

5.2. Leading zero

Numbers that begin with 0 (zero) are read as a zero followed by the number read as a whole.

Number	Reading
09253	cero nueve mil doscientos cincuenta y tres
020	cero veinte

5.3. Decimal numbers

In Spanish, comma is used when writing decimal numbers. However, the system also manages decimals written with full stop, as long as the format cannot be interpreted as a full number. I.e., a number containing a full stop followed by exactly three digits is not read as a decimal number but as a full number, following the rules in the section *Full number pronunciation*.

The full number part of the decimal number (the part before comma or full stop) is read according to the rules in the section *Full number pronunciation*. If the decimals (the part after comma or full stop) are more than three, the decimal part is read as separate digits.

Number	Reading
16,234	dieciséis coma doscientos treinta y cuatro
3,1415	tres coma uno cuatro uno cinco
1251,04	mil doscientos cincuenta y uno coma cero cuatro
1.251,04	mil doscientos cincuenta y uno coma cero cuatro
2,50	dos coma cincuenta
2.50	dos punto cincuenta
3,141	tres coma ciento cuarenta y uno
3.141	tres mil ciento cuarenta y uno

5.4. Currency amounts

The following principles are followed for currency amounts:

- Numbers with zero or two decimals preceded or followed by the currency markers £, \$, ¥ or € are read as currency amounts.
- [not SP] Numbers with zero or two decimals followed by the words *libra*, *dólar*, *yen* or *euro* (singular or plural) are read as currency amounts.
- Accepted decimal markers are comma ',' and full stop '.'.
- The decimal part (consisting of two digits) in currency amounts is read as *y nn peniques* for pounds, for all other currencies it is read *y nn céntimos*.

- If the decimal part is *00* it will not be read.

Expression	Reading	
\$15.00	quince dólares	
15.00£	quince libras	
15.00 euros	quince euros	[not SP]
€ 200.50	doscientos euros y cincuenta céntimos	
1.000.000 ¥	un millón de yenes	

There is also the possibility of writing large amounts as follows:

\$ 1 millón	un millón de dólares
-------------	----------------------

5.5. Ordinal numbers

Numbers are read as ordinals in the following cases:

- The number '1' is followed by a month name or one of the month name abbreviations. (The particle *de* can be included between the number and the month name or abbreviation.) The number may be preceded by a day name.
- The number is *1er, 3er*.
- The number is followed by *o, a, °, ª*.

[not SP] The valid abbreviations for months are: *ene, feb, abr, jun, jul, set, sept, oct, nov* and *dic*.

Expression	Reading	
1 enero	primero de enero	
1 de enero	primero de enero	
1 ene.	primero de enero	[not SP]
jueves 1 feb.	jueves primero de febrero	[not SP]
jueves 1 de feb.	jueves primero de febrero	[not SP]
1er trimestre	primer trimestre	
3er grado	tercer grado	
2o año	segundo año	
3a clase	tercera clase	
4ªparte	cuarta parte	
5° piso	quinto piso	

5.6. Arithmetic operators

Numbers together with arithmetical operators are read according to the examples below.

Expression	Reading
-12	menos doce
3-1	tres guión uno
3-1=2	tres menos uno son dos
+24	más veinticuatro
3+1=4	tres más uno son cuatro

Expression	Reading
2*3	dos asterisco tres
2*3=6	dos multiplicado por tres son seis
2/3	dos tercios
2/3=0.67	dos dividido por tres son cero punto sesenta y siete
25%	veinticinco por ciento
3,4%	tres coma cuatro por ciento

5.7. Mixed digits and letters

If a letter appears within a sequence of digits, the groups of digits will be read as numbers according to the rules above. The letter marks the boundary between the numbers. The letter will also be read.

Expression	Reading
77B84Z3	setenta y siete B ochenta y cuatro Z tres
0092B87-B	cero cero noventa y dos B ochenta y siete B

5.8. Time of day

The colon is used to separate hours, minutes and seconds.

Possible patterns are:

- hh:mm* or *h:mm*
- hh:mm:ss* or *h:mm:ss*
- hh* or *h*
- hh-hh* or *h-h*

h = hour, *m* = minute, *s* = second.

In pattern a: [not SP]

If the *mm*-part is equal to *00*, this part will not be read. Otherwise, a *y* will be inserted before the *mm*-part. This pattern can be preceded or followed by time indications such as *A.M.*, *AM*, *P.M.*, or *PM*. The abbreviations *h* and *hs* (with or without trailing dot) can follow the pattern.

In pattern b:

After the *hh*-part *horas* will be added. A *y* will be inserted before the *mm*-part, and *minutos* will be added after it. After the *ss*-part, *segundos* will be added. If the *ss*-part is equal to *00*, the expression will be read as pattern a. [not SP] This pattern can be preceded or followed by time indications such as *A.M.*, *AM*, *P.M.*, or *PM*.

In pattern c: [not SP]

The hours can appear alone but must be preceded or followed by time indications such as *A.M.*, *AM*, *P.M.*, or *PM*. The abbreviations *h* and *hs* (with or without trailing dot) can only follow the pattern.

In pattern d: [not SP]

The hours can appear in a time range and must then be followed time indications such as *A.M.*, *AM*, *P.M.*, *PM*, *h*, *h.*, *hs*, or *hs.*. An *a* will then be added between the numbers.

Expression	Reading	
PM 13:10	13 y 10 de la tarde	[not SP]
1:30 AM	una y media de la madrugada	[not SP]
9:00	nueve	
12:00	medio día	
13:15	13 y 15	
00:00	media noche	
12:13:55	12 horas y 13 minutos, 55 segundos	
4:30:00	4 y media	
12 h.	12 horas	[not SP]
11-12 am	11 a 12 de la mañana	[not SP]

5.9. Dates

The valid formats for dates are:

1. *dd-mm-yyyy, dd.mm.yyyy, dd/mm/yyyy*
2. *dd-mm-yy, dd.mm.yy, dd/mm/yy*
3. *dd-MM-yy, dd.MM.yy, dd/MM/yy*

yyyy is a four-digit number, *yy* is a two-digit number, *mm* is a month number between 1 and 12, *MM* is a month number between 1 and 12 in Roman numerals, and *dd* a day number between 1 and 31. Hyphen, full stop, and slash may be used as delimiters. In all formats, one or two digits may be used in the *mm* and *dd* part. Zeros may be used in front of numbers below 10.

In all formats, one or two digits may be used in the *mm* and *dd* part. Zeros may be used in front of numbers below 10.

Examples of valid formats and their readings:

Type 1:

10-02-2003 or 10-2-2003	diez de febrero de dos mil tres
10.02.2003 or 10.2.2003	“
10/02/2003 or 10/2/2003	“

Type 2:

10-02-03 or 10-2-03	diez de febrero de dos mil tres
10.02.03 or 10.2.03	“
10/02/03 or 10/2/03	“

Type 3: [not SP]

10-II-03	diez de febrero de dos mil tres
10.II.03	“
10/II/03	“

[not SP] Ranges of days and years are also supported.

Expression	Reading
1998-1999	mil novecientos noventa y ocho a mil novecientos noventa y nueve
1939-45	mil novecientos treinta y nueve a cuarenta y cinco
2002/3	dos mil dos a tres
14-15 enero	catorce a quince de enero
abril 2-3	abril dos a tres

Other possible formats include:

- Lunes, 15 de enero
- Jueves, 30 de abril de 1999
- 3 de mayo de 1953

5.10. Phone numbers

In this section the patterns of digits that are recognized as phone numbers are described. In the pronunciation of phone numbers each group of digits is read as a full number (see also *Leading zero* section) with a pause between groups of numbers. Groups that contain more than three digits are read out digit by digit.

5.10.1. Ordinary phone numbers

Sequences of digits in the following formats are treated as phone numbers.

The following sequences of digits can be separated by a space or a hyphen:

- xxx xxxxxx
- xxx xxxxx
- xxx xxx xxxx
- xxx xxx xxx
- xxx xxx xx xx
- xxx xxx xx
- xx xxx xxxx [not SP]
- xx xxx xxx
- xx xxx xx xx

The following sequences can only appear in these formats: [not SP]

- (xxx) xxx-xxxx
- xx- xxx xxx
- xx- xxx-xxx
- xx- xxx-xx-xx
- xx- xxx xx xx

5.10.2. International phone numbers

International phone numbers follow the pattern below:

International prefix + Country code + space or [not SP] hyphen + Local number.

International prefix:	00 or +
Country code:	1-3 digits
Local number:	8-10 digits

Examples:

0034 (971) 123-4567

0034 971 123456

001 21- 123-45-56

Chapter 6. How to change the pronunciation

6.1. User lexicon

Words that are not pronounced correctly by the text-to-speech converter can be entered in the user lexicon (see *User's guide*). When writing translations for entries in the user lexicon to change the way a word is pronounced, one method is to modify the spelling of the word (see section *Alternative spelling*) and another is to write a phonetic transcription of the word (see chapter *North American Spanish Phonetic Text*). Phonetic transcriptions can also be entered directly in the text, using a *PRN* or *PRX* tag (see *User's guide*).

6.2. Alternative Spelling

Sometimes, the quickest way of changing the pronunciation of a word is to change the spelling of the word directly in the text. Changing a single letter, or adding a hyphen, can often make it sound better. This is specially useful when it comes to foreign words. Try to write the foreign words as they sound.

Correct spelling

light
Wolkswagen
Renault
eau de Cologne
profile
photo
sube y baja

Alternative spelling

lait
Bolsbague
Renó
Ode coloñ
prófail
foto
subeibaja/subibaja

Chapter 7. North American Spanish Phonetic Text

The North American Spanish text-to-speech system uses the Spanish subset of the SAMPA phonetic alphabet (*Speech Assessment Methods Phonetic Alphabet*) with some modifications and expansions. The symbols are written with a space between each phoneme.

Only the symbols listed here may be used in phonetic transcriptions. Symbols not listed here are not valid in phonetic transcriptions and will be ignored if included in the user lexicon or in a *PRN* or *PRX* tag.

7.1. Consonants

The table below lists the phonetic symbols used for the North American Spanish consonants along with example words and their transcriptions.

Table 7.1. Symbols for the North American Spanish consonants

Symbol	Word	Phonetic text	Comment
p	pala	p a1 l a	
t	tela	t e1 l a	
k	cala	k a1 l a	
b	bala	b a1 l a	
d	dama	d a1 m a	
g	gala	g a1 l a	
m	mata	m a1 t a	Even for n before p and b
n	nata	n a1 t a	
nt	antes	a1 nt t e s	Nasals before a dental
nc	concha	k o1 nc tS a	Nasals before a palatal
M	ánfora	a1 M f o r a	Nasals before a labiodental
N	hongo	o1 N g o	Nasal before a velar
J	caña	k a1 J a	
f	fama	f a1 m a	
tS	chica	tS i1 k a	
s	sala	s a1 l a	
z	mismo	m i1 z m o	/s/ before a voiced phoneme
st	pasta	p a1 st t a	/s/ before a voiceless dental
sd	desde	d e sd d e	/s/ before a voiced dental
sr	Israel	i sr rr a e1 l	/s/ before an r
r	pero	p e1 r o	
rr	perro	p e1 rr o	
x	jamón	x a m o1 n	
l	lata	l a1 t a	
lt	alto	a1 lt t o	// before a dental
lc	colcha	k o1 lc tS a	// before a palatal
dZ	hielo	dZ e1 l o	Word initial and after nasals
jj	ayer	a jj e1 r	
W	hueso	W e1 s o	

Symbol	Word	Phonetic text	Comment
B	haba	a1 B a	Not word initial or after nasalas
D	hada	a1 D a	Not word initial or after nasalas
G	haga	a1 G a	Not word initial or after nasalas
Bh	objetivo	o Bh x e t i1 B o	/B/ before a voiceless phoneme
Dh	adjetivo	a Dh x e t i1 B o	/D/ before a voiceless phoneme
Gh	zigzag	s i Gh s a1 G	/G/ before a voiceless phoneme

7.2. Vowels

The table below lists the phonetic symbols used for the North American Spanish vowels along with example words and their transcriptions.

Table 7.2. Symbols for the North American Spanish vowels

Symbol	Word	Phonetic text	Comment
a	ala	a1 l a	
e	eje	e1 x e	
i	vivir	b i1 B i r	
o	ojo	o1 x o	
u	tul	t u1 l	Back close rounded vowel
j	miedo	m j e1 D o	Not nucleus, only in diphthongs and triphthongs
w	cuento	k w e1 nt t o	Not nucleus, only in diphthongs and triphthongs

7.3. Foreign sounds

A few non-Spanish sounds, which sometimes occur in the pronunciation of foreign words and names, are permitted in the transcriptions. The sounds in question are listed in table below.

Table 7.3. Foreign sounds

Symbol	Word	Phonetic text	Comment
S	shop	S A1 p	English consonant
v	festival	f e1 s t l v l	English consonant
T	Smith	s m l1 T	English consonant
R	Green	g R i1 n	English consonant
Th	this	Th l1 s	English consonant
Z	rouge	R u1 Z	English consonant
h	happy	h {1 p i	English consonant
A	talkshow	t A k S o1 w	English vowel
{	Standard	s t { n d @ d	English vowel
@	Edward	e1 d w @ d	English vowel
l	Minneapolis	m l n i {1 p @ l l s	English vowel
r=	Worth	w r=1 T	English vowel

Symbol	Word	Phonetic text	Comment
V	Company	k V1 m p @ n i	English vowel

7.4. Lexical stress

In words with more than one syllable, one (and normally only one) of the syllables is more prominent than the others. This is referred to as word stress, or lexical stress. Words of one syllable also have word stress when spoken in isolation, although many may lose the stress in certain contexts. For the correct pronunciation of a word, it is important to include the symbol marking the word stress.

In the phonetic transcriptions the word stress is indicated by the symbol /1/ placed directly after the stressed vowel (with no space between the vowel symbol and the stress symbol).

7.5. Glottal stops

A glottal stop, represented by the phonetic symbol /ʔ/, is a small sound which is often used to separate two words when the second word starts with a stressed vowel. It is also useful when transcribing abbreviations. This sound can be inserted in a transcription in order to improve the pronunciation.

Example:

SFM

? e s e ? e f e ? e1 m e

7.6. Pause

An underscore /_/_ in a phonetic transcription generates a small pause.

Chapter 8. Abbreviations

In the current version of the North American Spanish text-to-speech system, the abbreviations in the table below are recognized in all contexts. These abbreviations are mostly case-insensitive (except for those indicated below by “*”) and require no full stop in order to be recognized as an abbreviation.

As previously mentioned, there are also abbreviations for the month names (see chapter *Ordinal numbers* .

Table 8.1. Abbreviations

Abbreviation	Reading
cía (or cia)	compañía
Exc	Excelencia
RENFE*	Red Nacional de los Ferrocarriles Españoles
SA*	Sociedad Anónima
sr	señor
srs	señores
sres	señores
sra	señora
sрта	señorita
TVE*	Televisión Española
ud (or vd)	usted
uds (or vds)	ustedes
cl	centilitros
cm	centímetros
cts	centavos
dcha	derecha
dl	decilitros
dm	decímetros
dupdo	duplicado
etc	etcetera
izda	izquierda
kg	kilogramos
km	kilómetros
lic	licenciado
mg	miligramos
ml	mililitros
min	minutos
mm	milímetros
n°	número
orig	original
pral	principal
prov	provincia
tel	teléfono

Abbreviations

Abbreviation	Reading
°C *	grados celsius
°K *	grados kelvin
°F *	grados fahrenheit
apdo	apartado
av (or avda)	avenida
dr	doctor
dra	doctora
esq	esquina
gob	gobierno
gral	general
ing	ingeniero
núm	número
pág	página
prof	profesor
profa	profesora
vol	volumen
NIF*	Número de Identificación Fiscal
am (or a.m.)	de la mañana
pm (or p.m.)	de la tarde

Chapter 9. Web-addresses and email

Web-addresses and email-addresses are read as follows:

- *www* is read as three *w*'s spelled letter by letter.
- Full stops '.' are read as *punto*, hyphens '-' as *guión*, underscore '_' as *guión bajo*, slash '/' as *barra*.
- *es*, *uk*, *fr* and all the other abbreviations for countries are spelled out letter by letter.
- The @ is read *arroba*.
- Words/strings (including *org*, *com* and *edu*) are pronounced according to the normal rules of pronunciation in the system and in accordance with the lexicon.

String

www.acapela-group.com

http://www.acapela-group.com

romero@yahoo.es

susana_romero@yahoo.es

Reading

w w w punto acapela guión group punto com

h t t p dos puntos barra barra w w w punto acapela
guión group punto com

romero arroba yahoo punto e s

susana guión bajo romero arroba yahoo punto e s