



Braille driver for Talks

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1 General

The described driver allows Talks and Talks&Zooms to control Handy Tech Braille systems and Braille displays. The connection of a mobile phone and a Braille display is realized using a wireless Bluetooth connection. When connected, it is possible to read the display content of the mobile phone on the Braille display. In addition it is also possible to enter text using Braille and to control the mobile phone with the connected Braille display. The build in Grade 2 back translation of the driver for German, French and English supports a fast entry of text.

2 Installation and Connection

2.1 System Requirements

The Braille driver supports exclusively the mobile phone operating system Symbian in the 3rd and 5th edition. Please make sure, before installing, that your mobile phone is equipped with the correct Symbian version.

The following Braille displays are supported by the Talks driver:

- Active Braille
- Easy Braille
- Braillino
- Braille Star 40
- Braille Wave
- Basic Braille

2.2 Installation of the Braille Support on the Mobile Phone

In order to use the Braille Support of Handy Tech Braille displays it is necessary to install the Handy Tech Braille driver on your mobile phone. Therefore, copy the driver onto the memory card of your mobile phone, open the file manager of your mobile phone and start the installation by selecting the driver file. If the Braille display has not been connected automatically, please, follow the instruction of chapter 2.3.

2.3 Mobile Phone Bluetooth Connection Set-up

Follow the steps 1 to 5 to manually connect your Braille display with a mobile phone:

1. In the menu "Connections" of your mobile phone, select the sub menu „Bluetooth“ where, under "Connected Devices", you choose „Options“.
2. Select "Newly connected Devices" and a list of all Bluetooth devices, ready to be paired, will be displayed. It can take a few seconds for the list to be generated. If you get the message "Bluetooth switched on/ off?" press [key 1] (YES) to activate Bluetooth. Make sure that the Braille display is switched on and all the connections (Serial and USB) do exist.
3. Now, from the list of available devices, select your Braille display. If your Braille display is not listed, go to "more devices".
The Braillino Braille display will be listed as Braillino, followed by its serial number.
4. To connect the devices, a Pairing Code is required. This five-digit code number can be found on the packaging, respectively the driver CD of the Bluetooth adapter, which is a part of your Braille display shipment.
5. To finish the installation, in the "Talks Settings" under the tab "Braille", choose "Handy Tech".

The Braille display is now connected wirelessly with your Symbian mobile phone and you can use the full functionality of your mobile phone with Braille input and output. More information about the Braille configuration within Talks you will find in the Talks manual.

3 Quick Start

With a Bluetooth connection of a mobile phone and Braille display running and the Braille driver activated, you can control all functionalities of your mobile phone using the Braille keyboard. To navigate, use the scrolling keys to the left and right of the Braille display. If you are using a Handy Tech Braille display with Triple Action Keys, the Triple Action Key on the right hand side, hit in the middle, will activate [Selection].
The Triple Action Key to left works as a backspace key when hit in the middle.

Braille Driver

Grade 2 Back Translation



Activated panels and text editor can be filled out directly using the Braille keyboard.

Unlike with the internal note taking functions of Braille Systems, Talks recognizes the left as well as the right space bar of a Braille display. The left space bar triggers all Chord commands, like the left space bar + dot 1 and 4 equals Chord C, for copy, etc.

The space bar to the right is used for Talks commands.

To execute Talks commands on the Braille Wave, the [Enter] key is used instead of the right space bar, because this device is equipped with one central space bar only.

4 Grade 2 Back Translation

The Grade 2 back translation enables you to enter text in Grade 2. As a punctuation mark, a space character or a line break are detected, all entered text up to that point will be back-translated from Grade 2 into Grade 1, while you can simply continue writing. The back translation is available for the languages German, English and French. The Grade 2 back translation used depending on the selected Language of the mobile phone.

With the keys [SPCR+48] (respectively [Enter+48] on the Braille Wave) you can activate or deactivate the back translation.

The activation is signaled by a long vibration of your mobile phone, the deactivation by a short vibration alert.

The back translation is only active when using text boxes, there is no need to switch it off to navigate the menu or lists.

When you insert the character star (*) or hash (#) while the back translation is active, they will be displayed as a dot (.) This is necessary as to prevent your mobile phone from processing those characters and therefore be able to utilize those characters in Grade 2. Those characters will be sent to and processed by your mobile phone directly with the back translation deactivated. It is only possible to use either Grade 2 or Grade 1 at one time. For example in the case that the display is set at Grade 2 and you activate the back translation, the setting of the display will be changed into Grade 1 and the back translation is active.

5 Vibration Alert of the Driver

The driver uses the vibration alert of your mobile phone to indicate changes of certain settings. This way, information about the Braille connection is rendered accessible to the deaf-blind, too.

For the vibration alerts to work, the vibration alert needs to be activated in the set profile of your mobile phone

The following vibration alerts are used:

- Pulsative vibrations indicate the connection establishment.
- A prolonged vibration indicates the activation of the back translation and a short vibration signals the deactivation.

6 List of Identification Letters

In most cases, the Braille display for Talks&Zooms will begin with an identification letter, indicating the type of text output displayed. This is a simple method for you to stay oriented. The following types of text output are currently defined:

Identification	Description
F:	This letter precedes the selected item from any list, such as the phone numbers directory, a list of folders (e.g., in "Messages"), or a list of applications (e.g., under "Extras").
M:	The prefix "M" indicates the selected item from a menu.
T:	This identification letter precedes the line of text that contains the cursor.
S:	The meaning is the same as "T", with the block marking function active.
===	These characters appear before and after the title of the active window.

7 Useful Tips for using Talks together with a Braille Display

If you want to mark a block of text for copying, cutting, or deleting, press the cursor routing key at the beginning of the desired block to position the cursor at that location. By pressing the same cursor routing key again, you activate the marking function, and the identification letter on the Braille display changes from "T" to "S" to indicate this. Next, press the cursor routing key at the end of the desired text block. The marked block will now be underlined with dots 7 and 8. You should execute whichever block function you were planning now, before moving the Braille display anywhere else, because otherwise the cursor will be moved along with the Braille output, and thus the marked block will be lost.

If you change the active application, or if you change the marked position, Talks&Zooms will automatically show the marked position on the Braille display. If no marked block is available, the title of the active window will be displayed.

8 List of Braille Commands

The usability of the Braille Commands listed is depending on the mobile phone used. In the following all commands to control a mobile phone with a Braille keyboard are listed. Please be aware that when using a Braille Wave you need to hit [Enter] instead of [SPCR].

Mobile Phone Keys (Description)	Braille Display Keys
Space Key	SPCL or SPCR (SPC)
Enter	dot 8
Menu	SPCL+123456
Left	SPCL+7
Right	SPCL+8
Up	SPCL+1
Down	SPCL+4
Ctrl+Left	SPCL+3
Ctrl+Right	SPCL+6
Ctrl+Up	SPCL+2
Ctrl+Down	SPCL+5

Braille Driver

List of Braille Commands



Mobile Phone Keys (Description)	Braille Display Keys
Alt+Left (Pos1)	SPCL+13
Alt+Right (End)	SPCL+46
Ctrl+Alt+Up (top of file)	SPCL+123
Ctrl+Alt+Down (end of file)	SPCL+456
Backspace	SPCL+12 or dot 7 or TLC
Shift+Backspace (delete)	SPCL+45
Tab	SPCL+56 or SPCL+2345 (Chord t)
Shift+Tab	SPCL+23 or SPCL+23457 (Chord T)
Ctrl+c (copy)	SPCL+14 (Chord c)
Ctrl+x (cut)	SPCL+1346 (Chord x)
Ctrl+v (paste)	SPCL+1236 (Chord v)
Ctrl+f (find)	SPCL+124 (Chord f)
Help	SPCL+125 (Chord h)
Esc	SPCL+15 (Chord e)
Display the command keys; can be initiated with the cursor routing keys	SPCR+2
Display the active window's title	SPCR+1
Display phone reception strength, the selected network, and the remaining battery charge.	SPCR+5
Switch between the cursor formats "no cursor", "78", and "block character".	SPCR+6
TALKS	SPCR+2345
Open the window "Talks Settings"	SPCR+23457
Toggle "Speak With Closed Cover" on/off (if using a headset)	SPCR+234
Press a command key [Key1]...[Key4]	SPCR+CR1...4
Move Braille display up/left: also moves the cursor or highlighting.	TLU or TRU
Move Braille display down/right: also moves the cursor or highlighting.	TLD or TRD
Place the cursor at the corresponding text position. Begin marking text (beginning of block) by pressing the CR key above the cursor position (end of block is set by activating any CR key). Activate a menu item.	CR

8.1 Braille Commands for the Basic Braille

With the Basic Braille you cannot enter Text in Braille, because the unit has only 6 navigation keys and no Braille keys. But you can still control the mobile phone by using the Basic Braille. See the following table for the possible controlling functions:

Basic Braille's keys	Mobile Phone Keys (Description)
1	Cursor up
4	Cursor down
2	Cursor left
5	Cursor right
3	Move Braille display up or left, including cursor or marked object
6	Move Braille display down or right, including cursor or marked object
1 + 2 + 3	Beginning of file (Ctrl+Alt+up)
4 + 5 + 6	End of file (Ctrl+Alt+down)
1 + 3	Go to beginning of line (Home)
4 + 6	Go to end of line (End)
1 + 2	Backspace
4 + 5	Delete (Shift+Backspace)
2 + 3	Shift+Tab
5 + 6	Tab
2 + 5	Enter
1 + 2 + 4	Show focused object
1 + 4	Navigate without moving the cursor (Pseudo Cursor)
2 + 3 + 4	Show soft keys
2 + 3 + 5 + 6	Show window name
1 + 2 + 4 + 5	Grade 2 on/off
2 + 6	Show phone status (network and battery life)
3 + 6	Toggle cursor form between „no Cursor“, „78“ and „all dots“.
2 + 3 + 4 + 5	Talks key
1 + 3 + 6	Open „Talks Settings“
1 + 2 + 5	Help
1 + 5	Escape
1 + 2 + 3 + 4 + 5 + 6	Menu

Formatierte Tabelle

9 Technical Support

The Braille driver is a very complex product. Although it has been optimized to be as simple and self-explanatory as possible, misunderstandings or errors may occasionally interrupt successful work. As a first resort, please always consult this user manual.

Should the problem persist, please contact your vendor or customer advisor. Of course you can also contact Handy Tech directly:

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Our service staff will be happy to assist you.