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1 What is WordPower?

WordPower was designed by speech and language therapist Nancy Inman, and The Grid 2 version was adapted by Gillian Hazell. WordPower was originally designed for an individual in need of an augmentative communication device based on words, but requiring more than a system based on stored sentences, spelling and word prediction. WordPower combines the features of core vocabulary, spelling support and word prediction. The system takes advantage of the fact that while we may have a normal speaking vocabulary of between 10,000 and 30,000 words, a core of just 100 words accounts for approximately 50% of words spoken¹.

WordPower uses predictive text and predictive words based on previous word order patterns of use. To support spelling it can also predict target words on the basis of what they sound like.

Core vocabulary is provided on a top page, with additional vocabulary provided on extra grids linked to the top page.

WordPower is available for several different platforms. This manual refers to versions intended for use with The Grid 2. The Grid 2 versions of WordPower support email, SMS messaging, browsing the Internet and writing simple documents.

¹ Kucera and Francis (1967). *Computational Analysis of Present-day American English*. Providence: Brown University press

1.1 WordPower Users

WordPower is available in several different forms to suit the needs of different users. It is offered with and without symbol support, with or without a keyboard, and in a version accessible to switch users. The table below details the different versions available.



Version	Text Only	Symbols	Switch Accessible	Keyboard
WordPower		Yes		Yes
WordPower No Keyboard		Yes		
WordPower Scanning		Yes	Yes	Yes
WordPower Text	Yes			Yes
WordPower Text Scanning	Yes		Yes	yes

The Grid 2 comes with Widgit Literacy Symbols as standard, but all the WordPower grids are also available with PCS symbols.

2 Installing Word Power

Word Power can be purchased on a CD.

1. Run The Grid 2 and go to Grid Explorer.
2. If you see a grid instead of Grid Explorer when The Grid 2 starts, select Grid Explorer from the File menu at the top of the screen (if you cannot see the file menu it may be hidden, press F12).



3. Select 'Open Grid Bundle' from the panel on the left. You will be required to locate the grid bundle you wish to import and click Open. If you are installing from a CD, locate the CD driver. Otherwise, navigate to where you have saved the grid bundle you want to install.
4. To locate the CD drive, go to My Computer then select the CD drive. A new user will be created for you, so just click Ok to start importing the grids.

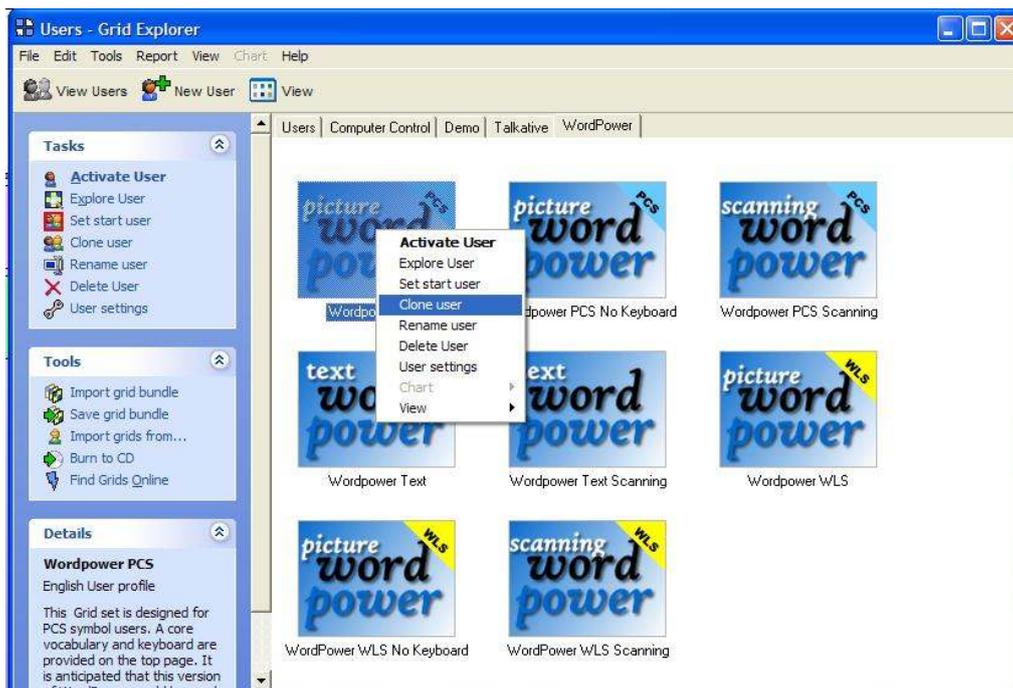
3 User Settings

Before WordPower is used, there are some important settings that need to be adjusted to suit the needs of the user. If WordPower was introduced to you by your Speech Therapist or Occupational Therapist, then these should have already been discussed. You may even have been supplied with a specially configured system. If not, you should look carefully at the following list to make sure that they are right for you. The following is just a guide; to find out more about the settings see Chapter 16 *Other places to look for help*.

3.1 Copying a user

It is a good idea to make a copy of your user profile. This allows you to make changes to the grids or the user settings whilst retaining a “master” copy of the grids to refer back to, or restore earlier settings.

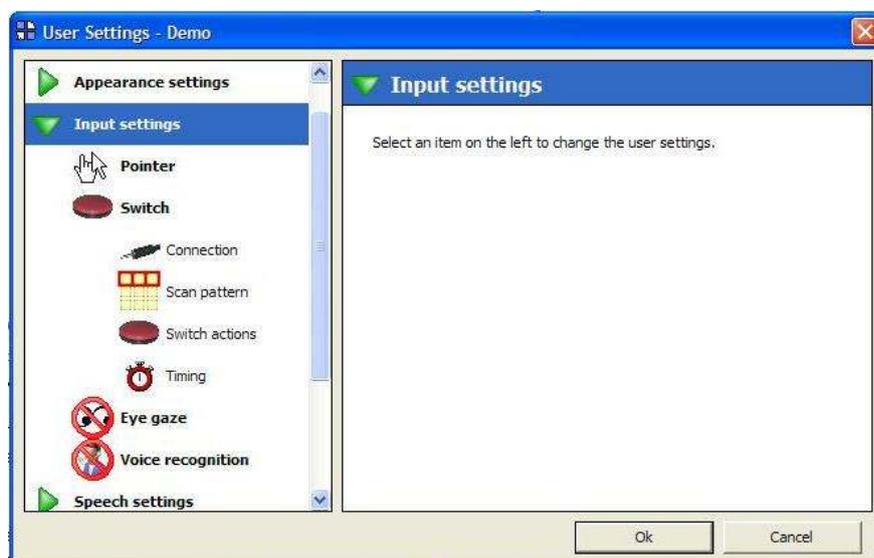
1. Open Grid Explorer and right click on the user icon you want to duplicate. Select ‘Clone user’ from the menu.



2. Enter a name for your new user and select ‘Ok’. The new user icon should appear in the same folder as the cloned user in Grid Explorer.
3. You can view and edit the user settings for this user, by selecting User settings from the drop-down menu when you right click on the user icon.

3.2 Input Method

Your “input method” is the way you access the computer: switches, mouse, touch screen, head pointer, eye gaze etc.



There are some useful settings in the **Pointer Settings** menu that can help if you have difficulty with the touch screen or pointing device. You can find these in The Grid 2 by opening User Settings then selecting Input Settings > Pointer > Settings.

Switch users will need to set up switches to work with their system. There are different options for connecting different switches, e.g. with a Joystick or switches built into a communication aid for example. There are many settings for more advanced switch control. These changes are made in User Settings in the section Input settings > Switch. Note that for switch users, the block scanning option is turned on by default. We recommend you keep this option selected as Star Talker has been designed for use with block scanning.

3.3 Visibility

You can adapt the text size and colour scheme to ensure that the grids are visually accessible. The size of text that can be used depends on the resolution of the screen as well as its size. Font and symbol sizes can be set up for each preset cell styles (used for different types of cells). For example, the “Del word” cell uses the “Action Cell” preset style. Changes to the appearance of this cell’s colour, font style or size or the relative picture size within the cell are made by editing a cell and electing Edit Style.

Note: A preset style is used by many cells across each WordPower user. Making changes to a style will also alter all of the cells using the preset style on all grids within that User. To make changes to only **one** cell, the cell style must be “specified for this cell’s style individually”

The colour scheme of cells is an integral part of the WordPower system, and this is controlled using preset styles within the Grid 2. Some additional changes, for example to the workspace fonts that are used, can be made within User Settings and Appearance Settings.

3.4 Speech settings

It is important to select a voice that is acceptable to the user. Acapela speech, provided as part of The Grid 2, gives the user a selection of high quality male and female voices. When first using WordPower, a voice will need to be selected. A full range of speech settings is available in User Settings, under **Speech settings**.

You can select voices for your **public** and **private voice**. Your public voice is the voice you use to talk to other people. Your private voice is the voice used to read information back to you - for instance, for auditory feedback or to read text messages you have received.

You can also adjust your settings to speak each word you select/type into the workspace, or read a sentence out loud when you have completed it. Or you can set it to only read the workspace out loud when you select 'Speak'.

3.5 Workspace Settings

WordPower offers interfaces for browsing the web, checking and sending emails and SMS messages. You need to ensure your user settings are correctly configured for these to work. This section offers an overview but please see the appendices, or *Chapter 16 Other places to look for help* for further help and advice.

3.5.1 Web browser

In user settings you can change your homepage, and add or remove filters for particular websites.

3.5.2 Email

In user settings you can set up WordPower to receive emails from your preferred email account. The settings can vary for different kinds of email accounts, and up-to-date detailed advice for your particular email account can be found in *APPENDIX A: Email Settings* or from the Sensory Answers website.

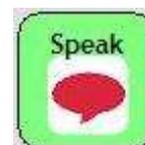
3.5.3 Mobile phone

In user settings you can connect your mobile phone or USB modem to WordPower to send and receive text messages, as well as make phone calls. Specific advice on how to do this is available from the Sensory Answers website, or from *APPENDIX B: Text Messaging*.

4 Useful Icons

Before getting started on specific WordPower grids, it is useful to learn the functions associated with the following icons. These icons can be found on any grid, but their function remains the same.

When you have completed your sentence and you want to say it out loud, select the **Speak** button.



You can delete the last letter typed into the workspace by selecting **Backspace**.



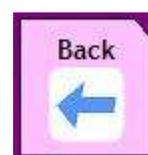
You can delete the last word written into the workspace by selecting **Backspace Word**.



You can clear the workspace for a new sentence by selecting **Clear**.



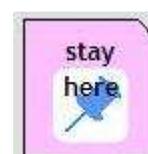
To return to the last grid you were on, select **Back**.



You can return to the core vocabulary and keyboard from any grid by selecting the **top page** icon.



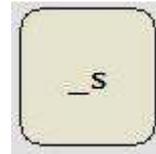
Some grids are 'self-closing'. This means that when you have selected an item from the grid it takes you back to the previous grid. Sometimes you may not want it to do this, because you might want to select more than one item from that grid. To hold a 'self-closing' grid open, select the **stay here** icon.



You can access more punctuation by selecting the **punctuation icon**.



You can change the form of a word you have just written in the workspace into the plural by selecting the **pluralise** icon.



You can access numbers by selecting the **number** icon.



You can access special functions, like internet or SMS messaging, by selecting the **special** icon.



5 Top Page

WordPower is built around a central grid, the 'top page', which contains core vocabulary and links to grids containing additional vocabulary. In versions with a keyboard, the keyboard appears on the top page. The top page also contains cells to help with verb conjugation, spelling and prediction. Grids containing additional vocabulary return the user to the top page once they have made their selection - this means less navigation around grids when building up a sentence.

The screenshot shows the 'top page' interface of WordPower. At the top, a menu bar includes 'File', 'Edit', 'Jump', 'Auto content', 'Current Workspace', 'Analysis', and 'Help'. Below the menu is a central grid containing icons and text: 'I', 'hope', 'it', 'is', 'cake', 'for lunch.', 'I', 'am', 'hungry'. To the right of this grid are buttons for 'Speak', 'Del word', and 'back'. Below the central grid is a keyboard with various keys, including 'thirsty', 'cute', 'I', 'me', 'my', 'Question', 'People', 'Social', 'Places', 'Time', 'Describe', 'groups', 'back', 'it', 'qu', 'w', 'e', 'r', 't', 'y', 'u', 'i', 'o', 'p', 'number', 'he', 'a', 's', 'd', 'f', 'g', 'h', 'j', 'k', 'l', 'Clear', 'she', 'z', 'x', 'c', 'v', 'b', 'n', 'm', '.,!?', 'they', 'can', 'could', 'is', 'be', 'come', 'eat', 'feel', 'the', 'Verbs', 'any...', '_s', 'we', 'will', 'would', 'can't', 'go', 'help', 'know', 'like', 'to', 'about', 'and', 'at', 'you', 'might', 'should', 'don't', 'need', 'say', 'take', 'talk', 'that', 'but', 'for', 'of', 'your', 'do', 'have', 'not', 'tell', 'think', 'want', 'work', 'this', 'in', 'out', 'with'.

5.1 Core vocabulary

WordPower places the core vocabulary which makes up most of our spoken language on the top page for easy access. These are the words which are the most frequently used and essential in sentence building. They include pronouns, prepositions, articles, conjugations and common verbs.

5.2 Text and word prediction

On the left hand side of the top page are eight empty cells which can be used for prediction and verb morphology. Text prediction works by using the letters you have already typed to predict what word you might be trying to write. It bases its predictions on pre-stored information about word frequency and grammar, but it is also able to learn what words you might be trying to make based on past input and frequency. Word prediction operates in a similar fashion, predicting what word you might want to say next based on the word you have just written. This is based on stored information about grammar and word sequencing, but learns from past input to suit the kinds of word strings you frequently make.

5.3 Verb morphology

To save space, WordPower only offers one form of each verb on the top page and verb pages. When you have selected the infinitive form of the verb you want you are offered several possible conjugations of that verb in the verb morphology cells on the left hand side of the page. Selecting the appropriate conjugation will replace the verb in the workspace with the conjugation you have chosen.

5.4 'Sounds like' spelling prediction

WordPower offers spelling support by predicting what a user's target word might be, by offering phonologically similar words to the word typed. Selecting the 'sounds like' cell brings up possible words in the prediction cells, and the user can select the appropriate word which will replace the misspelled term in the workspace. 'Sounds like' spelling prediction can also learn from past input the words users might be trying to make.



5.5 Keyboard

Versions of WordPower are available with and without a keyboard. Numbers and punctuation are available on separate keyboard pages.

5.6 Verbs

The most frequently used verbs are contained in the core vocabulary on the top page. Further verbs are accessed by selecting the 'verbs' or 'actions' cell. More core verbs are displayed following this link, with further verbs organised alphabetically.

am, is, are	will	have, has	had	_n't	couldn't
I'm	I'll	I've	I'd	isn't	wouldn't
you're	you'll	you've	you'd	wasn't	shouldn't
he's	he'll	he's	he'd	weren't	a, b, c, d
she's	she'll	she's	she'd	hadn't	e, f, g, h, i, j
it's	it'll	it's	it'd	haven't	k, l, m, n, o
we're	we'll	we've	we'd	don't	p, q, r, s
they're	they'll	they've	they'd	didn't	t, u, v, w

5.7 Any...

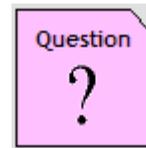
Common words beginning with 'any', 'every', 'some' or 'no' are accessed by selecting the 'Any...' icon.



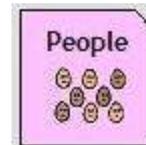
6 Vocabulary grids

Extended vocabulary is linked to the top page via other vocabulary grids. Once you have selected your target word, you are returned to the top page to make your next selection. The content of the vocabulary grids is organised as follows:

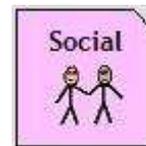
Question words - contain common question words and short phrases.



People words - contains words for people including family and professionals.



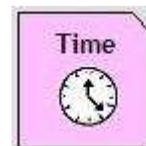
Social words - contains common social phrases and greetings.



Place words - contains words for places.



Time words - contains words for talking about time.



Describe words - contains adjectives for talking about people and things. Emotion vocabulary is contained here.



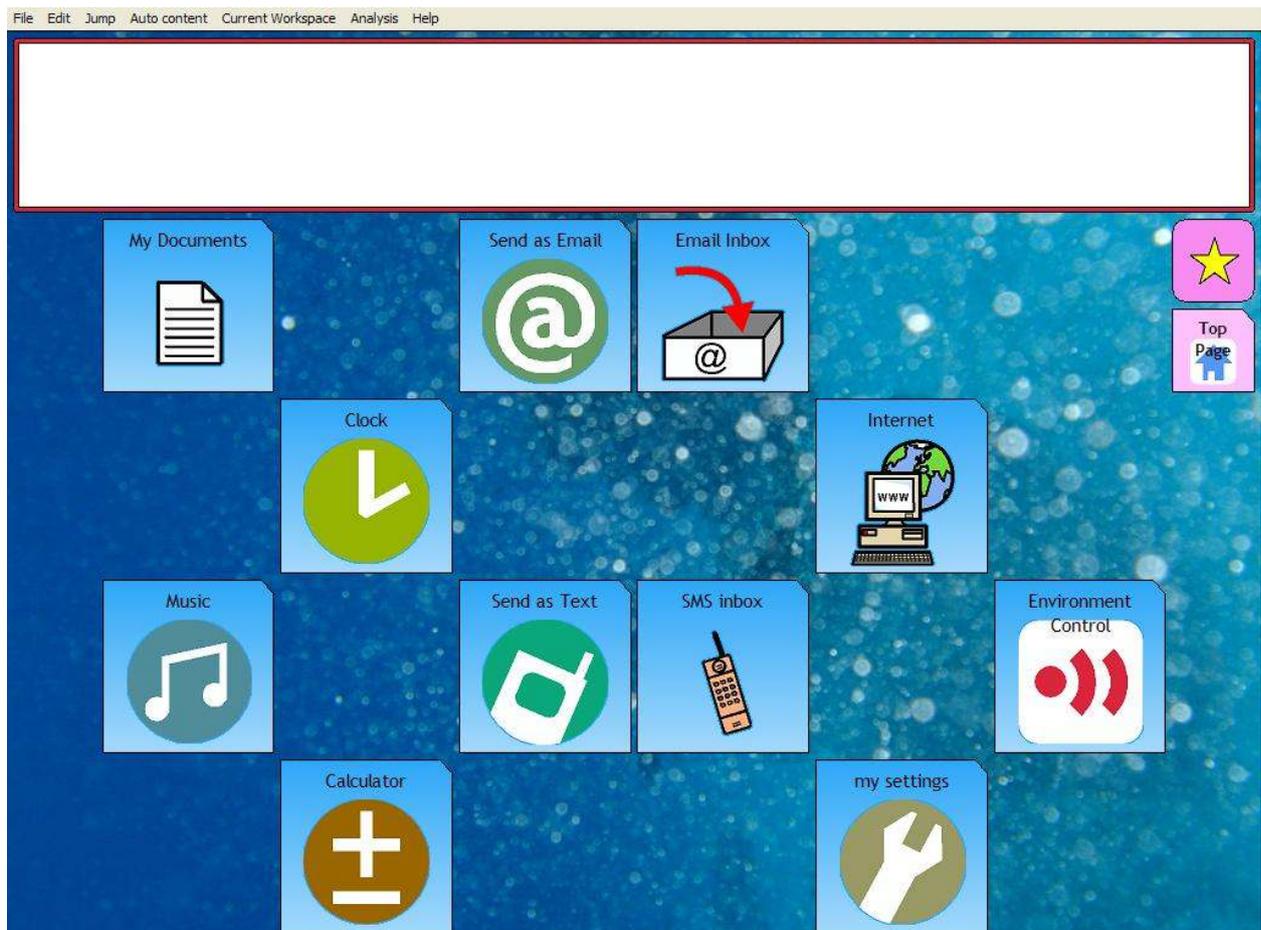
Groups - links to an organised set of grids containing nouns on a range of topics, such as food, weather and work.



7 Special

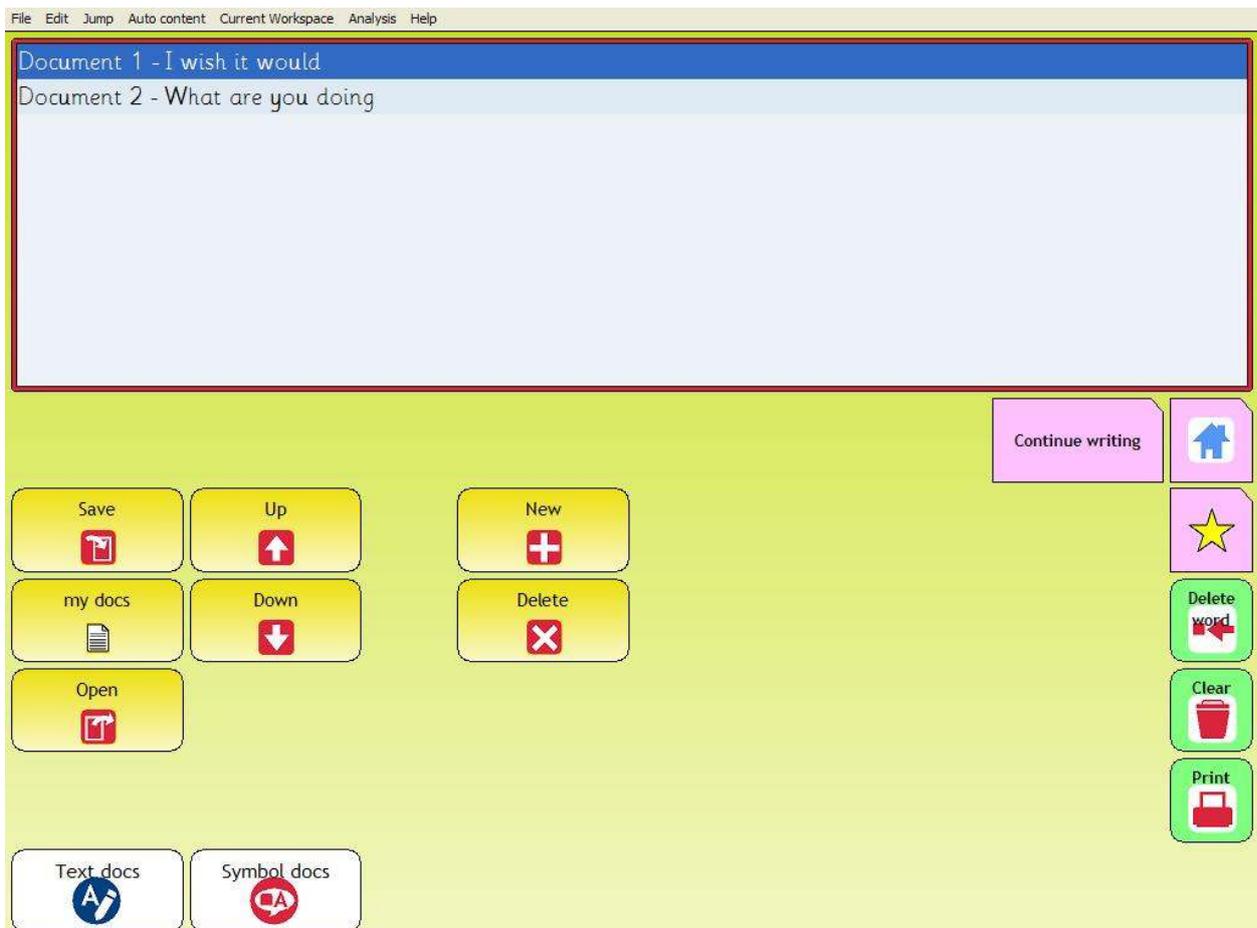


Selecting the star icon from the top page takes you to a range of special functions. You can create and manage documents, send and receive email and SMS messages, surf the internet, listen to music and operate a range of environment control systems from these pages. These functions are described in more detail below.



8 Documents

You can save your work as documents. If you have constructed a sentence with symbol support, it will be saved as a symbol document. If you have constructed a sentence without symbol support it will be saved as an RTF document, which can be opened by other word processors.



8.1 How to save your work as a document

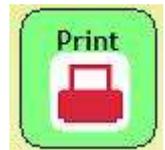
1. Write what you want to save in the workspace.
2. Go to the special menu and select 'My Documents'.
3. Select 'save' from the documents page.
4. Your document will be saved under Text docs or Symbol docs, depending on whether your work contained symbols.

8.2 How to open a saved document

1. Go to the special menu and select 'My Documents'.
2. Select 'Text docs' or 'Symbol docs', depending on where the document is saved.
3. Using the up and down arrow cells select the document you want (it will be highlighted in blue when selected).
4. Select 'Open'.
5. Selecting 'continue writing' will take you back to the top page with the document open for editing in the workspace.
6. Remember to return to the documents page and save your work when you have finished!

8.3 Printing documents

1. Go to the special menu and select 'My Documents'.
2. Open the document you wish to print.
3. Select the print icon.



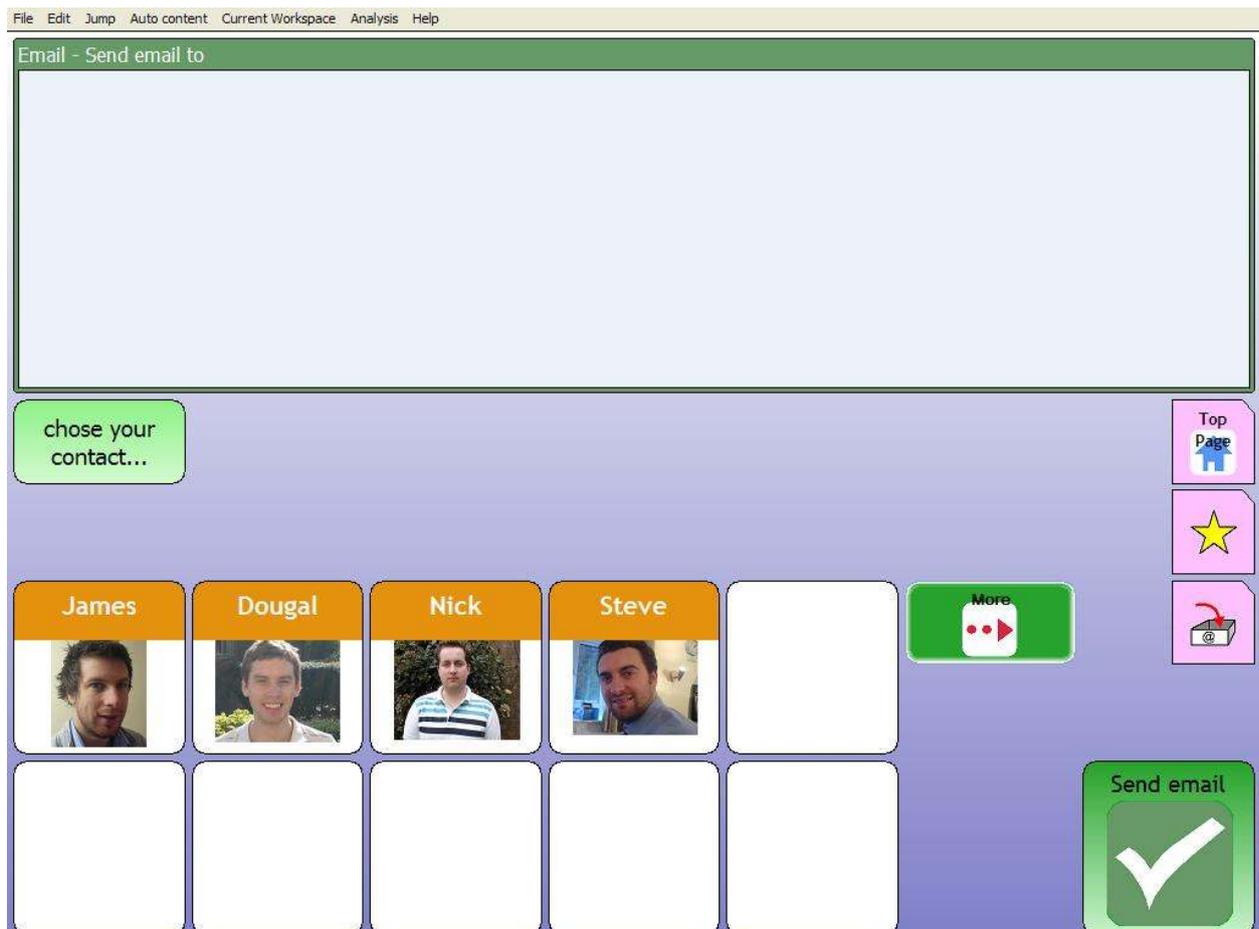
Note: If you wish to print, you will need to select the correct printer in User Settings -> General Settings -> Printing.

8.4 Deleting documents

1. Go to the special menu and select 'My Documents'.
2. Select 'Text documents' or 'Symbol documents'.
3. Using the up and down arrow cells select the document you want to delete (it will be highlighted in blue when selected).
4. Select the 'Delete' cell.

9 Email

You can send and receive emails in WordPower. The Grid 2 will first need to be configured to work with your email account. The Grid 2 is compatible with many different email providers. For up to date information about how to configure a specific email account, please see *APPENDIX A: Email Settings* or the Sensory Answers website.

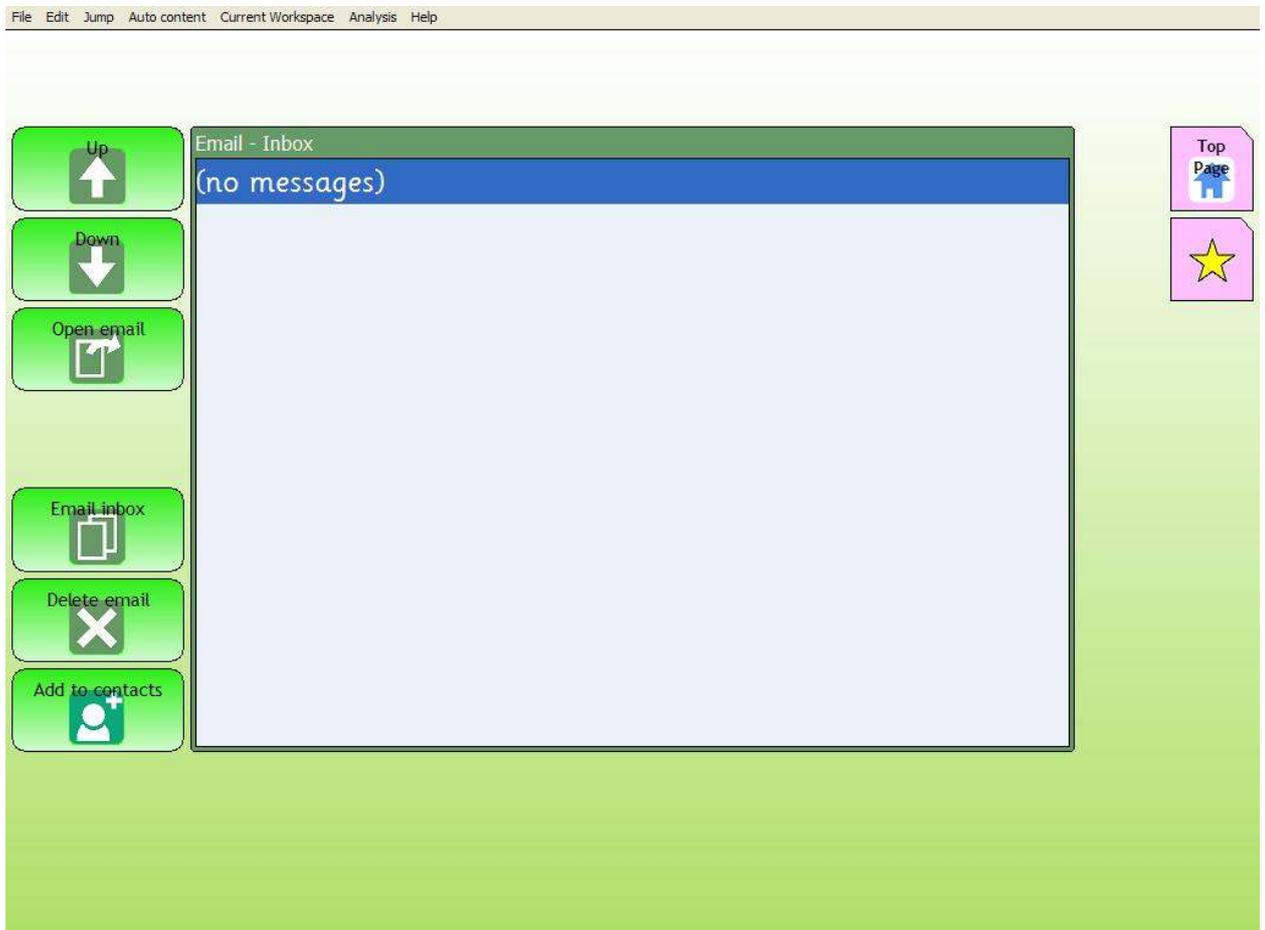


9.1 How to send your work as an email

1. Write the work you want to send as an email into the workspace. You can do this using symbol support, but the symbols will not be sent - only the text.
2. Go to the special menu and select 'Send as Email'.
3. Select a contact from the list.
4. Select the 'Send email' cell.

9.2 How to read and delete your emails

1. Go to the special menu and select 'Email inbox'. This will take you to the email inbox grid:

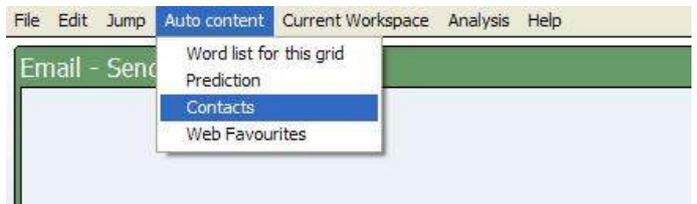


2. You can select different emails using the Up and Down arrow cells. The selected email will be highlighted in blue.
3. When the email you want to open is highlighted, select the 'Open email' cell.
4. To delete an email, select the email and then select the 'Delete email' cell. It will be deleted from your email account.

9.3 How to manage your email and SMS contacts

Email and SMS contacts are managed on a contacts list, which can be edited from the Auto content menu.

1. Go to the Auto content menu and select 'Contacts' from the drop down menu.



2. This will bring up the contacts list.



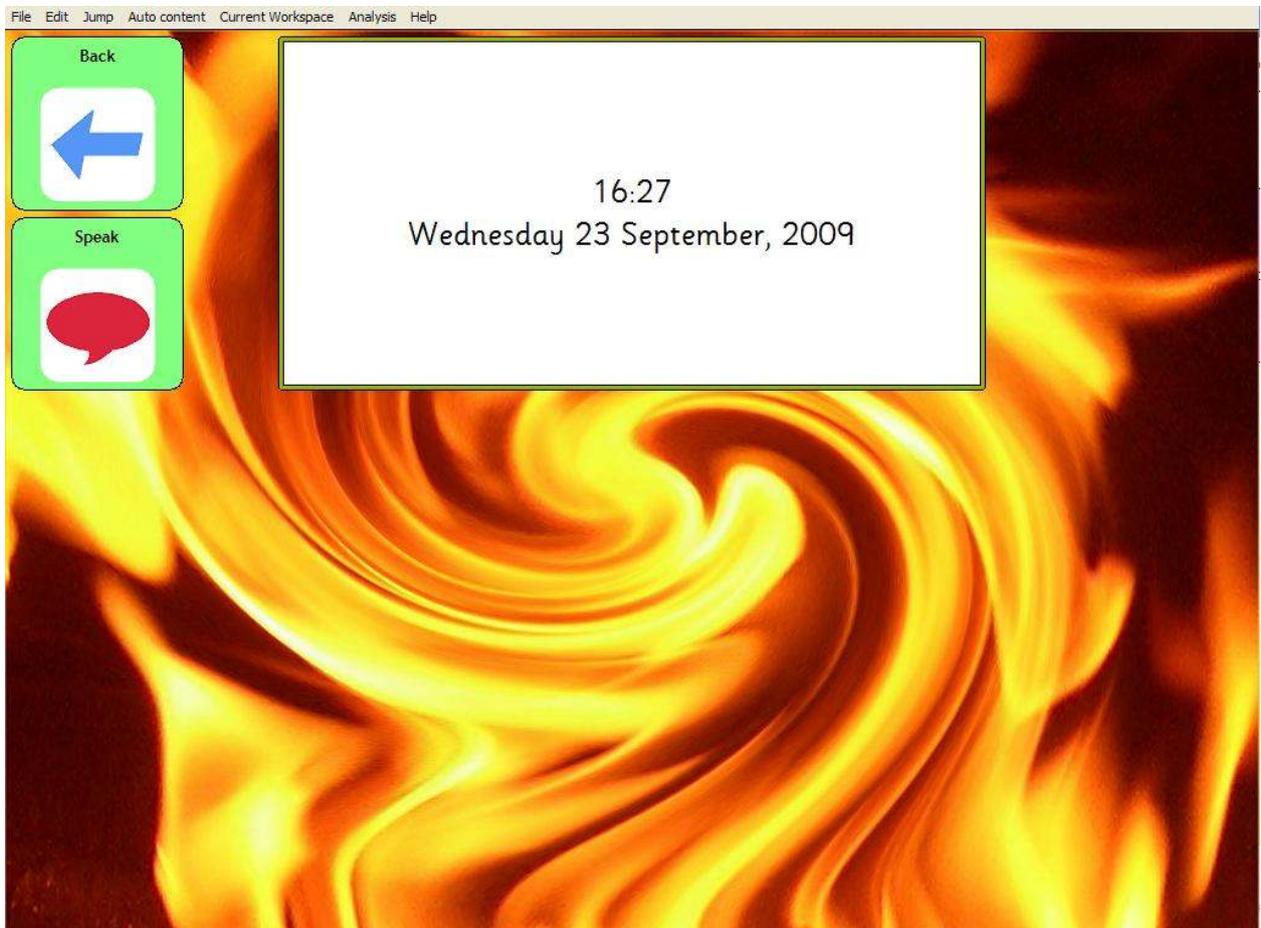
3. Select 'Add New Contact'. You will be asked to enter a name for the new contact, then taken to a window where you can edit their contact details.



4. Enter the appropriate phone number and email, then select ok. Select ok again to exit the contacts list. This entry will now appear in your contacts list on WordPower.

10 Clock

You can access the clock from the Special menu page. Selecting 'Speak' will read out the time and date.

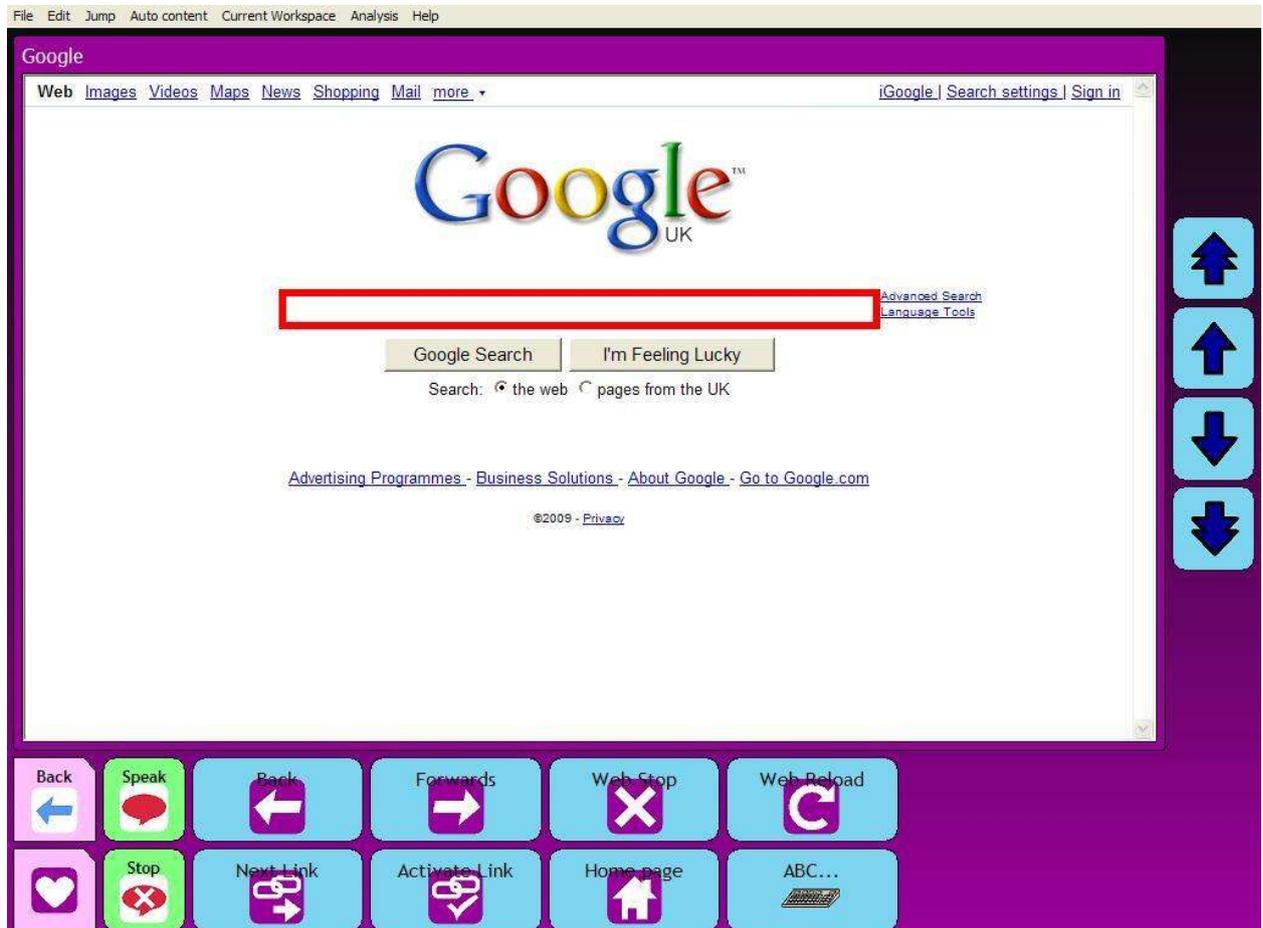


In User Settings -> Workspace Settings -> Clock, you can adjust the date and time of the clock, and choose between analogue and digital formats.



11 Internet

WordPower users can surf the internet, save and revisit their favourite websites and enter text into web forms or Internet search engines.



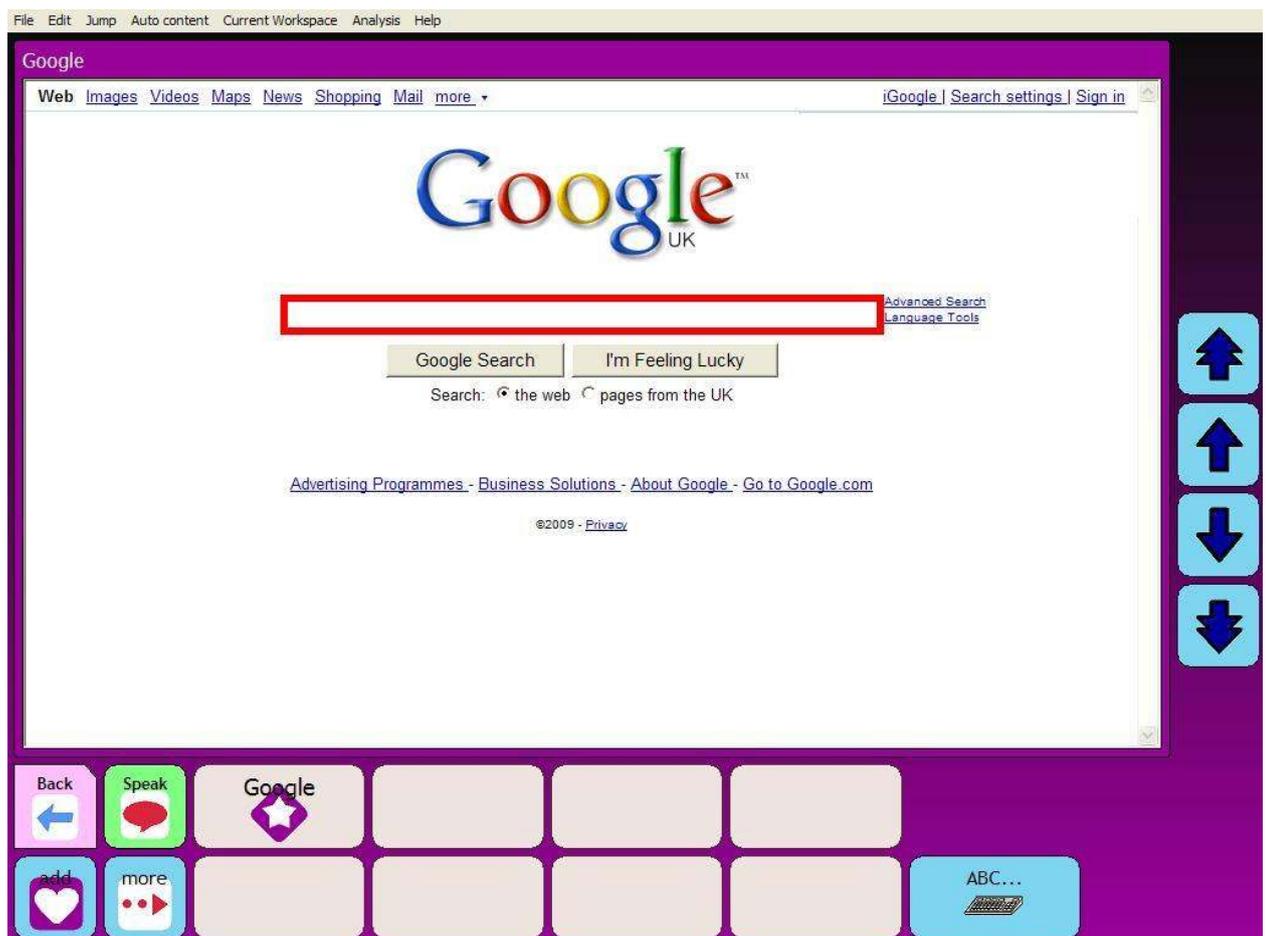
11.1 Browse the Internet

1. Go to the special menu and select 'Internet'.
2. You can scroll up and down the webpage using the arrows to the right of the screen.
3. You can reload the webpage by selecting the 'Web Reload' cell.
4. You can stop a webpage from loading by selecting the 'Web Stop' cell.
5. Links are highlighted in red. You can highlight the next link by selecting 'Next Link'. To activate a link select the 'Active Link' cell.
6. You can go to your home page by selecting the 'Home page' cell. (You can set your homepage in User Settings -> Workspace Settings -> Web Browser)

7. Selecting 'Speak' will read the webpage out to you. Selecting 'Stop', will stop reading out the webpage.

11.2 Favourite websites

1. Go to the special menu and select 'Internet'.
2. Select the heart shaped 'favourites' icon. This will take you to a new grid:



3. To access a stored favourite webpage, select the appropriate cell from the bottom of the screen.
4. To save your current webpage in your favourites list, select the 'add' favourites' icon.



11.3 Use Internet forms and search engines

1. Go to the special menu and select 'Internet'.
2. Select the icon with a keyboard symbol. This will take you to a new grid:



3. To enter an address for a webpage, select the 'Type Address' cell, then type in the appropriate URL and select 'Enter'.
4. To enter text into a web form or in an internet search engine, ensure the correct text box is highlighted. Selecting 'Next link' will move to the next field.
5. When using a search form, enter the appropriate text into the search field and then select 'Activate link' or select 'Enter' from the keyboard.
6. When using a form, fill out all the relevant fields and then select the 'Submit' or 'Send form' button using 'Next Link' and select the 'Activate link' cell to submit your information.

12 Music

You can play music stored on your computer or from a CD using WordPower. The Grid 2 uses Windows Media Player to play CDs and music stored on your computer, so before using WordPower to play music ensure that your music is stored in folders monitored by Windows Media Player and that it is correctly configured. If you are having problems playing media on The Grid 2, please ensure it works on Windows Media Player first.



12.1 How to play music stored on your computer

1. Go to the special menu and select 'Music'.
2. Selecting the 'all music' cell will display all tracks stored on your computer.
3. Selecting the 'albums' cell will display albums stored on your computer.
4. Selecting the 'artists' cell will display a list of artists whose music is stored on your computer.
5. You can select different items using the Up and Down arrow cells. The selected item will be highlighted in blue.

6. You can use the controls at the bottom of the screen to play and pause selected music, and skip between tracks.
7. You can also adjust playback volume using controls on this page.

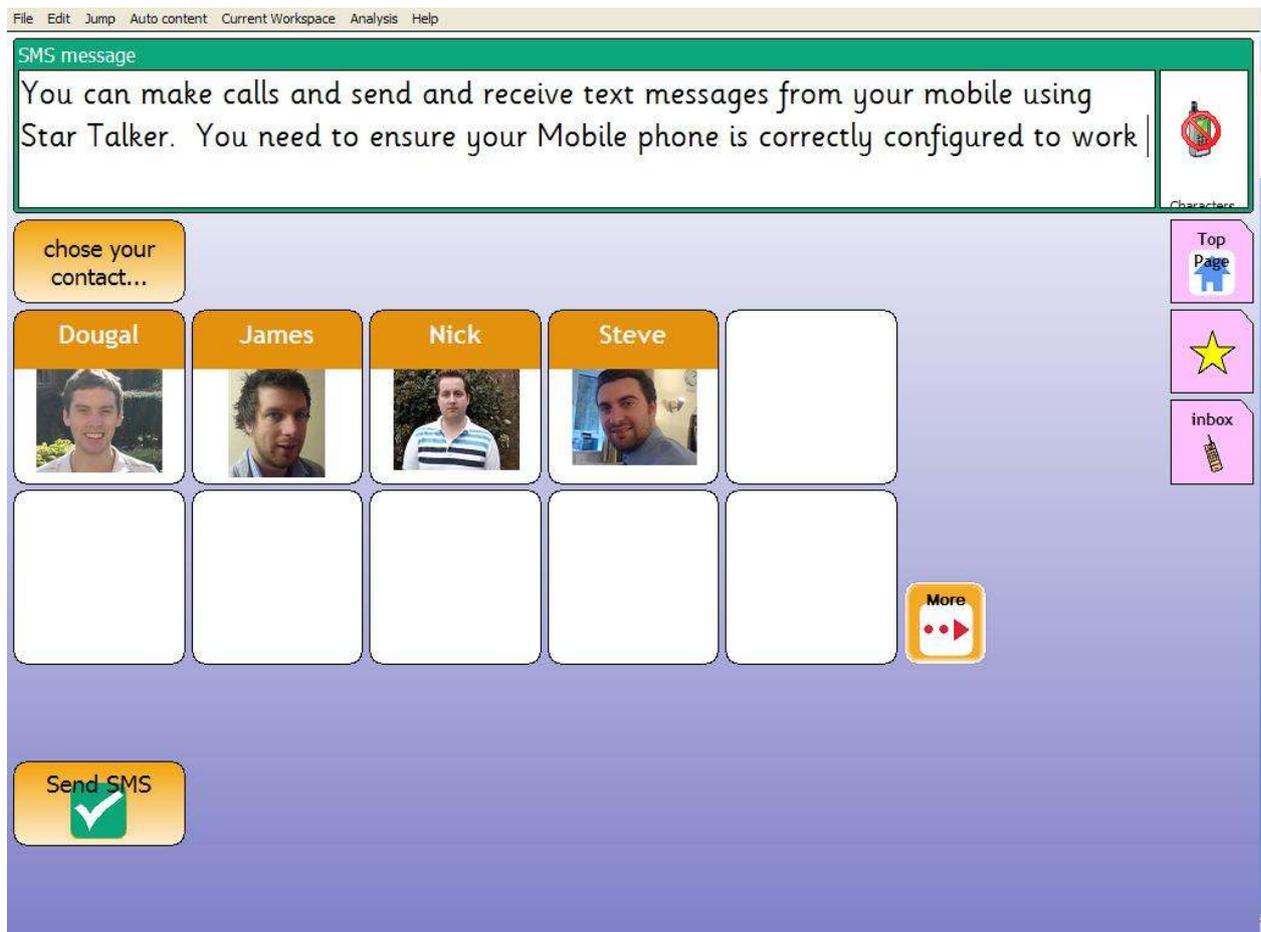
12.2 How to play music from a CD

Before playing music from a CD, ensure that this works with Windows Media Player, and that it is not set to automatically play on CD insertion.

1. Insert a CD into your computer.
2. Go to the special menu and select 'Music'.
3. Select the 'Play CD' cell.

13 SMS Messaging

You can send and receive text messages from your mobile phone or modem using WordPower. You need to ensure your mobile phone is correctly configured to work with WordPower before you begin. See *APPENDIX B: Text Messaging* for guidance on set-up.

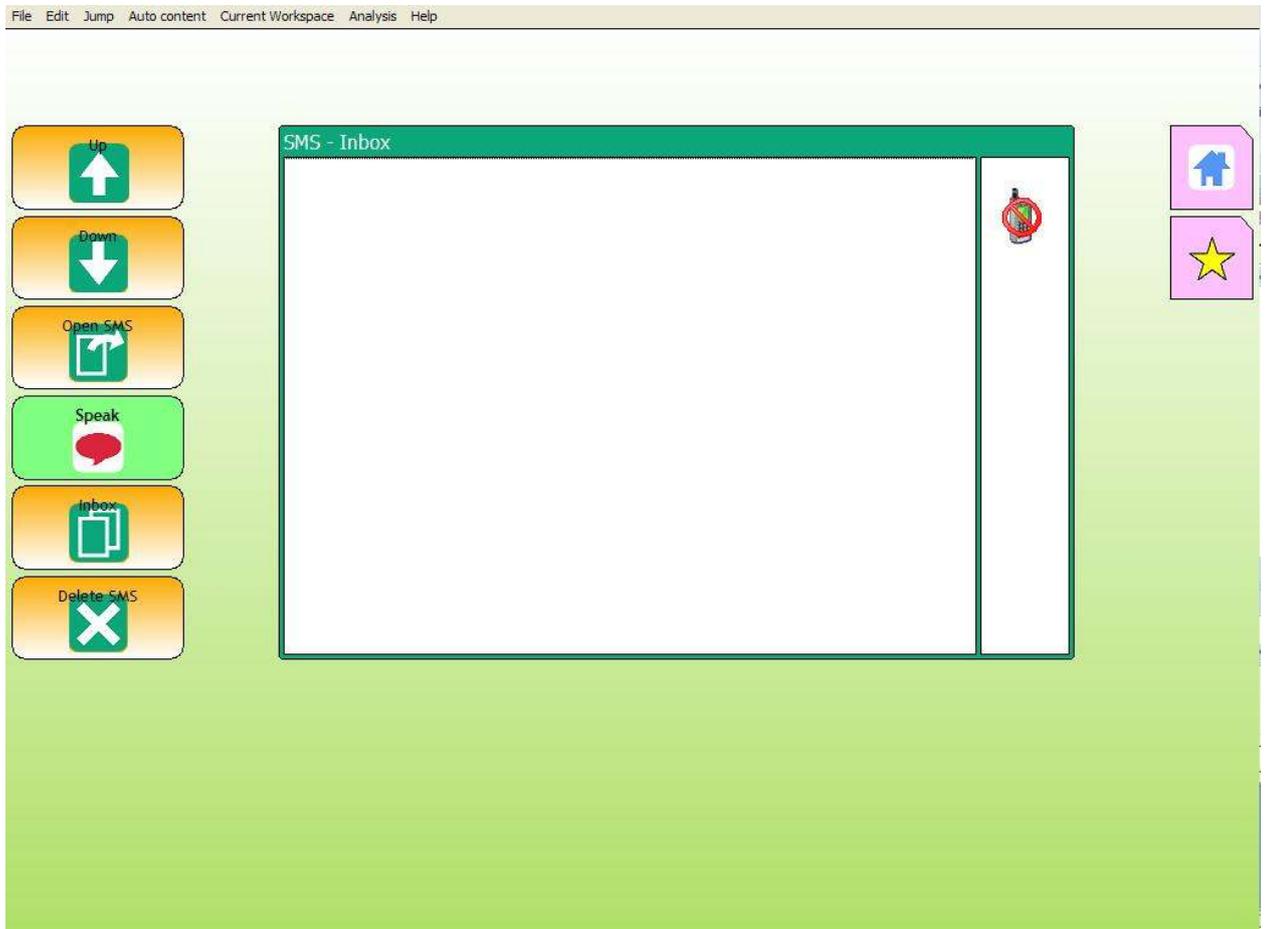


13.1 How to send an SMS message

1. Compose the text you want to send in the workspace.
2. Go to the special menu and select 'Send SMS'.
3. Select the contact you want to send it to from the list.
4. Select the 'Send SMS' cell.

13.2 How to view your SMS inbox

1. Go to the special menu and select 'SMS inbox'.



5. Your received messages will be displayed in the inbox. You can select different messages using the Up and Down arrow cells. The selected message will be highlighted in blue.
6. When the message you want to open is highlighted, select the 'Open SMS' cell.
7. To delete an SMS, select the message and then select the 'Delete SMS' cell. It will be deleted from your phone account.

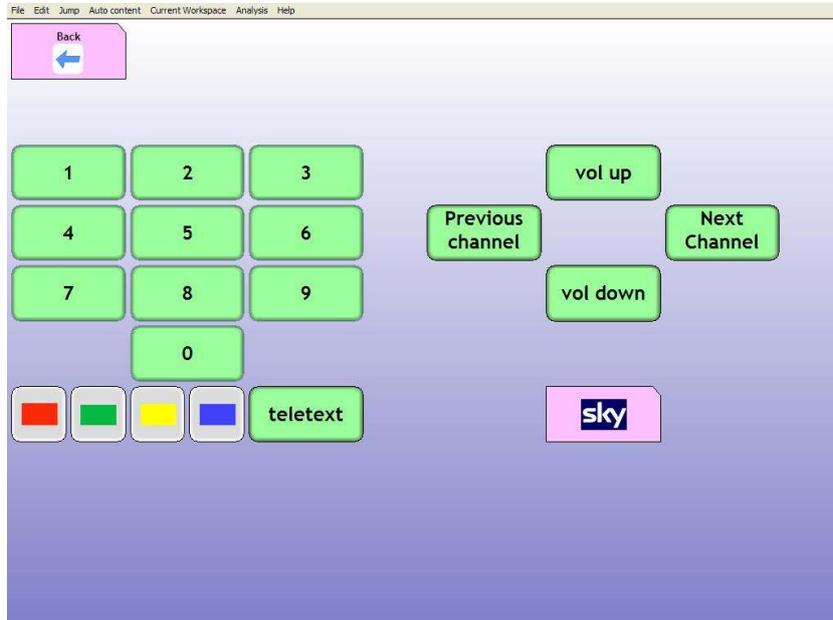
14 Environment Control

You can use WordPower to control different environment settings. These require different systems to be configured to work with The Grid 2. For more information on how to do this please see *APPENDIX C: Environment Control*.



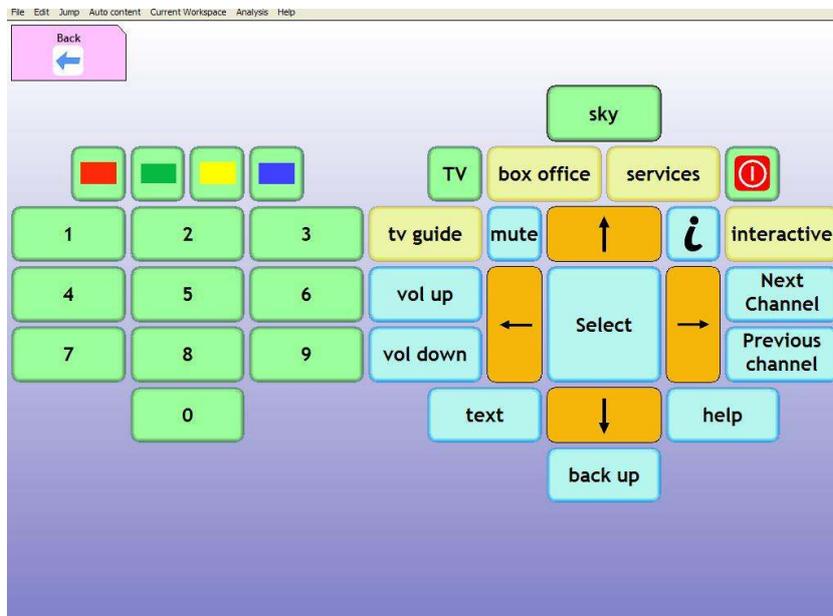
14.1 Television

You can use WordPower to control your television instead of using a remote control.



14.2 Sky

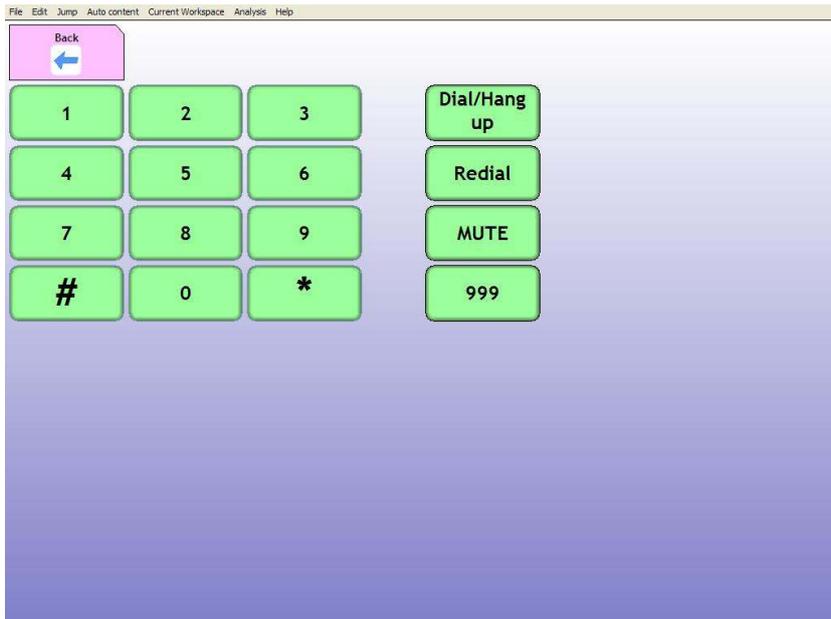
WordPower also contains a grid with special remote options for watching Sky TV.



14.3 Telephone

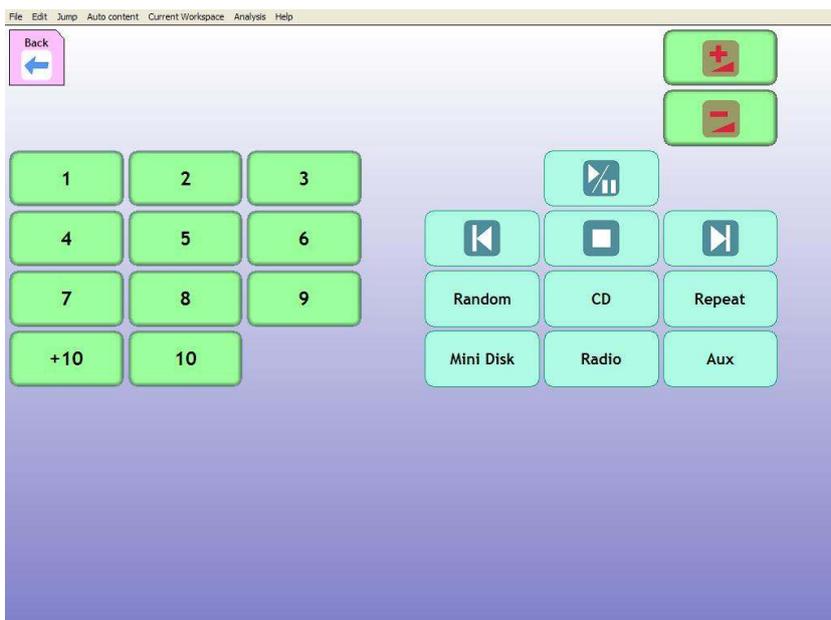
WordPower can also operate an appropriately configured telephone. For up to date information on which phone systems are compatible with The Grid 2, please see Sensory Answers online (*Chapter 16 Other places to look for help*).

When you have dialled out you can navigate to other grids to talk, and then return to this grid to hang up.



14.4 Hi-fi

WordPower contains a grid for remotely controlling your hi-fi.

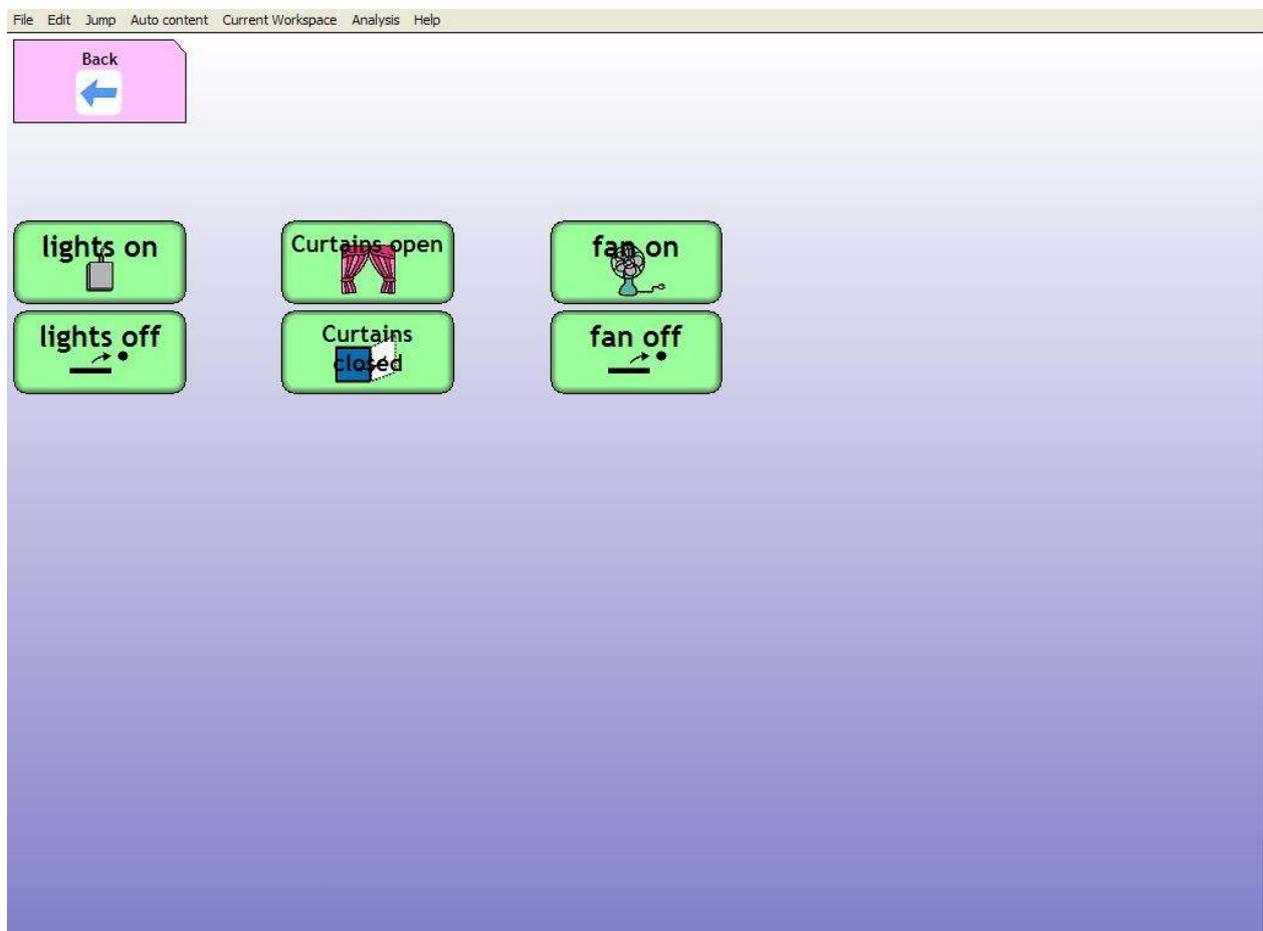


14.5 Smart House

You can use WordPower to control your environment if you set it up to interact with environment control systems. Currently the following systems are supported:

- GEWA
- TIRA
- Z-WAVE
- B&J PERSEO
- UIIRT

You can modify this grid to integrate more commands to suit your home and needs.



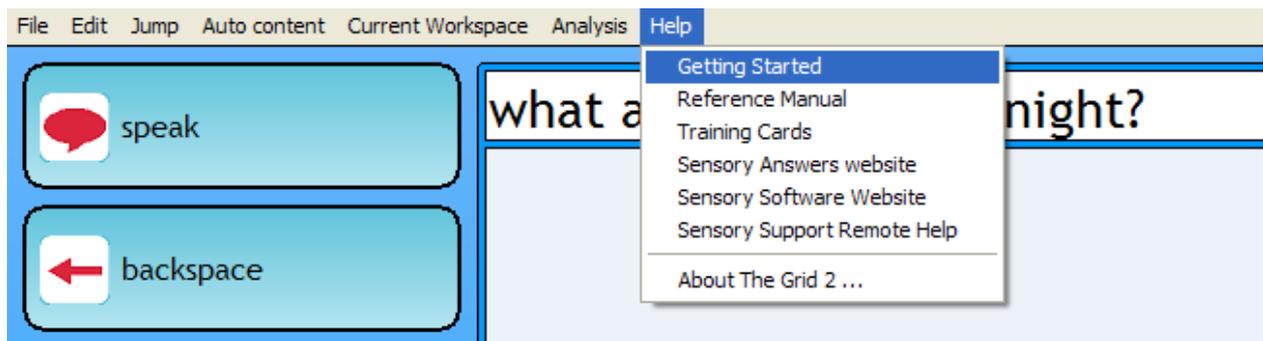
15 My Settings

From the Settings page you can adjust the volume of your speaking voice and your private voice (feedback volume) and adjust scanning speed. You can also turn off the grid, restart and turn off your computer.



16 Other places to look for help

Various sources of help with set up, operation and editing of The Grid 2 and WordPower are available. In the first instance the Help menu at the top of the screen contains several sources of advice, including an electronic copy of the Reference Manual and Training Cards, as well as links to Internet support resources.



16.1 The Grid 2 Manual

When you purchased a copy of The Grid 2, you will have received a hard copy of The Grid 2 manual, and this information is also available by selecting the Reference Manual option from the Help menu. This contains advice about using The Grid 2 in general, but not specific grid sets. You could look in here for advice on:

- Installation and user setup of The Grid 2
- Setting up different workspaces
- Editing grids
- Finding new grids online and adding them

16.2 The Grid 2 Training Cards

When you purchased a copy of The Grid 2 you will have received a set of Training Cards. You can also view an electronic copy of the Training Cards from the Help menu. The Training Cards contain more detailed advice on:

- Voice and input settings
- Editing and creating your own grids
- Information about different Users

16.3 Sensory Answers

Sensory Software, the creators of The Grid 2, run a website with answers to common problems at:

<http://answers.sensorysoftware.com>

Take a look and search the site to see if other people have been asking the same question. You can find up-to-date specific advice on:

- Setting up more complex workspaces, such as Email and Music
- Troubleshooting common problems
- Editing more complex functions such as predictive spelling and grammar

16.4 Sensory Technical Support

If you are still having trouble, please feel free to phone us on 01684 578868, and we can talk you through it.

If you are online, we can also use our Sensory Support tool, which allows us to see your screen over the internet, and control your keyboard and mouse. We use this to allow you to show us what your problem is. You can find Sensory Support on the start menu, or on our website at <http://www.sensorysoftware.com/support.html>.

16.5 Sensory Update

Some issues with WordPower or The Grid 2 may be fixed by updating your software using Sensory Update. Sensory Update is a program that was installed on your computer with The Grid 2.

1. Close down any Sensory Software programs that are running.
2. Go to Start > Programs > Sensory Software > Sensory Update.
3. Follow the instructions on the screen.

This will download the latest version of the software from the internet. Very often, we will already have been notified of the problem and will have issued an update to fix it. As an added bonus, Sensory Update also gets you the latest new features!

APPENDIX A: Email Settings

The Grid 2 has built-in email to allow you to send and receive emails easily, using your existing email account.

A.1 Your email account

To send emails with The Grid 2, you need a POP3 email account. You will probably have one of these from your Internet Service Provider (ISP), the company that provides your internet access. You need to locate the details of the POP3 account to enter in to The Grid 2.

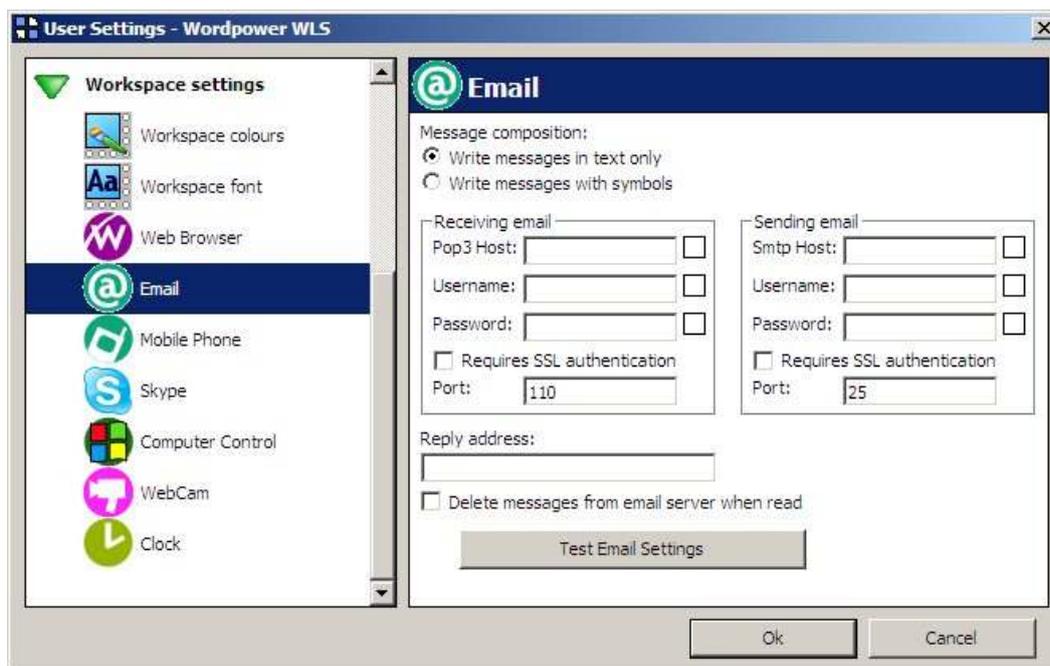
If you do not have a POP3 email account, you can set up a free one online. It is easy to set up a Goglemail account with The Grid 2.

A.2 Entering your email account details in The Grid 2

The Grid 2 stores separate email information for each user. If you have Grid Explorer open, start the user that you wish to configure.

- If you cannot see the menu bar above your grid, press F12.
- Now select **Edit > User Settings** from the menu.
- From the categories on the left, select **Workspaces**.
- From the sub-categories, select **Email**.

You will now see the Email Workspace setup screen.



Here you can enter the details of your email account. Here are a few tips:

- Your username and password will usually be case-sensitive.
- Most email accounts do not require secure encrypted connections (SSL).
- The port for incoming email is normally 110.
- The port for sending mail is normally 25.

When you have finished entering the details you can test the settings before returning to your grids, by clicking on **Test Email Settings**.

These settings vary depending on your email account, but see below for standard Gmail and Goglemail settings.

A.3 Goglemail and Gmail settings

If you do not have a goglemail account, go to <http://www.googlemail.com> (this will open in a new browser window).

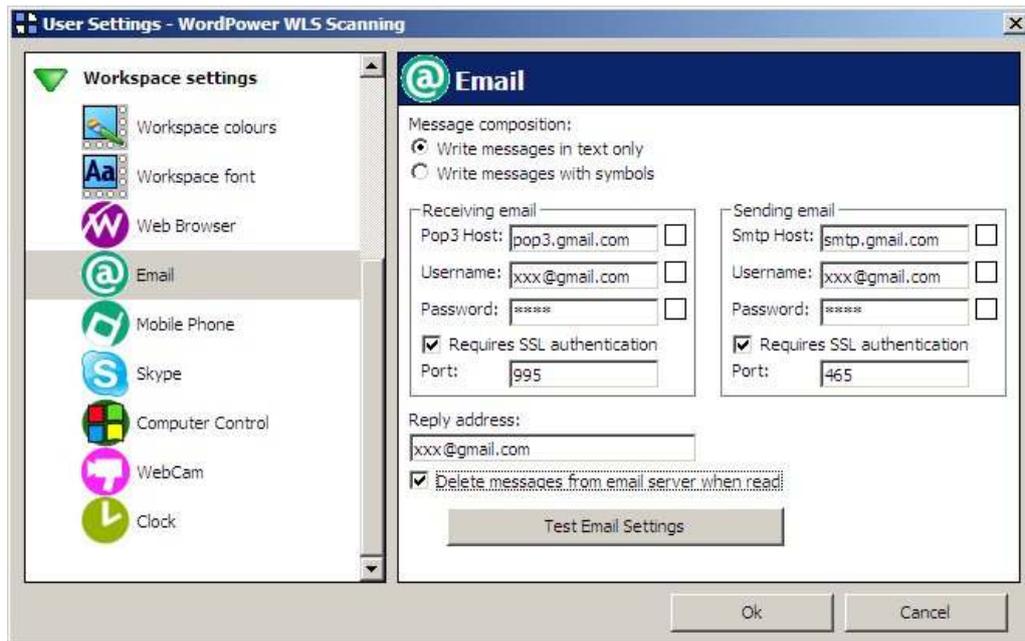
A.3.1 Configure goglemail for POP access

You need to log in to goglemail and configure it for POP3 access. POP3 is the protocol that most email programs (including The Grid 2) use for email.

- Log in to your goglemail account on the goglemail website.
- Click on the **Settings** link in the top right corner.
- Click on the **Forwarding and POP** option at the top of the main window.
- Mark the box **Enable POP for all mail**.
- Click on **Save Changes**.

A.3.2 Configure the email settings in The Grid 2

You can now enter the settings into The Grid 2. Go to User Settings -> Workspace Settings -> Email, and enter the following:



Receiving email:

- Host: pop.googlemail.com
- Username: **[username]@googlemail.com**
- Password: **[the password you selected]**
- Requires SSL authentication: YES (ticked)
- Port: 995

Sending email:

- Host: smtp.googlemail.com
- Username: **[username]@googlemail.com**
- Password: **[the password you selected]**
- Requires SSL authentication: YES (ticked)
- Port: 465

Other details:

- Reply address: [username]@googlemail.com
You must include a reply address.
- Delete messages from email server when read: YES (ticked)

A.3.3 Configure email settings for Gmail

The settings are the same as those for Goglegmail, but make sure that the host, username and reply address entries include **gmail.com**, rather than **googlemail.com**.

APPENDIX B: Text Messaging

The Grid 2 allows you to send and receive SMS messages. There are different methods of doing this.

We currently recommend using a mobile broadband modem, which is available either as a PCMCIA card or as a USB device. Although designed for mobile broadband, they are compatible with The Grid 2 and will send SMS messages over the normal mobile phone network. If you buy an 'unlocked' version, you should be able to use it with a standard pay-as-you-go SIM card. This is much cheaper than using a broadband SIM card.

If you prefer to use a mobile phone, the best results are obtained with the Sony Ericsson models. If your communication is Bluetooth enabled, you can pair a Bluetooth mobile phone with your device. However, high spec phones are generally too complex for The Grid 2 to handle.

B.1 Compatible modems and phones

Below is a list of known devices that are either compatible or not. Please check our website <http://answers.sensorysoftware.com> for any further additions to this list.

B.1.2 Broadband (3G) Modems

The following modems have been tested with The Grid 2's mobile phone and SMS features and are known to be compatible.

- **Zoom:** 4945
- **Huawei E180** USB modem (illustrated)
- **Aircard:** 750, 850 or 880 for PCMCIA slot
- **Enfora:** GSM0110-01 for PCMCIA or Compact Flash slot
- **T-Mobile:** Pay As You Go Mobile broadband USB stick 110 & 120 (run Sensory Update first).



B.1.3 Compatible phones

The following mobile phones have been tested with The Grid 2's mobile phone and SMS features and are known to be compatible.

- **Nokia:** 6230, 6310i, 6021
- **Sony Ericsson:** W890, C903, C510, K530i, K750i, K810i, K850i, T610, W810i, W850i, S500i, W715
- **Motorola:** V360

B.1.4 Partially compatible phones

The following phones can be used with The Grid 2, but do not offer complete functionality.

- **Nokia:** E63, 6233 6234, 6300, 7500 (sends ok but cannot read inbox)
- **LG:** Shine (can send messages and read new messages, but cannot access old message in inbox)
- **Samsung:** U700 (sends but cannot read inbox)
- **Samsung:** U600 (not useable with Bluetooth connection, cannot read inbox)
- **Samsung:** J700i (reads inbox, but cannot send messages)

B.1.5 Incompatible phones

The following phones are not compatible with The Grid 2.

- **Sony Ericsson:** Any model with first digit less than 3, eg C205,
- **Motorola:** RAZR (does not support serial connections over bluetooth)
- **Nokia:** E70 (not supported), 6110 Navigator
- **Samsung:** SGH - A411
- **HTC:** S710
- **Merlin/Novatel:** U530 PCMCIA wireless modem

You will generally need to install the software supplied with the phone or modem, but the software should not be running when you try to use it with Grid 2.

B.2 Connecting a USB Modem to Grid 2

This note shows how to use a USB modem to send and receive SMS messages with The Grid 2. Since Grid 2 has been written to support the widest number of phones and modems, the actual procedures for your system may differ. If you need assistance setting up your system please phone, but not when you are rushed.

Setting up the system requires the followings steps:

- Obtain the correct equipment
- Activate a SIM card and put some credit on it.
- Install the modem on the computer and install the software that came with it.
- Check you can send messages with the modem
- Configure The Grid 2 and test.

B.2.1 Before you Start

You will need the following



- **Uninstall unwanted phone software.** If you have previously installed software for other USB modems or phones and it is not needed, uninstall it before installing the Zoom software.
- **USB broadband modem.** There are two sorts: 'locked' that can only work with a particular network; and 'unlocked' that will work with any network. This example uses the Zoom 4945 modem which is unlocked and available from a number of suppliers. If you are buying a 'locked' modem, it is worth getting one on the same network as your phone.
- **A SIM card.** There are two types of SIM card: those intended for use with phones; and those that give a broadband connection. Although you will probably be able to send & receive messages with both types, phone SIM cards work out cheaper unless you need mobile broadband. Most network operators will provide phone 'SIM only' packages for a nominal charge.

B.2.2 Install the modem software.

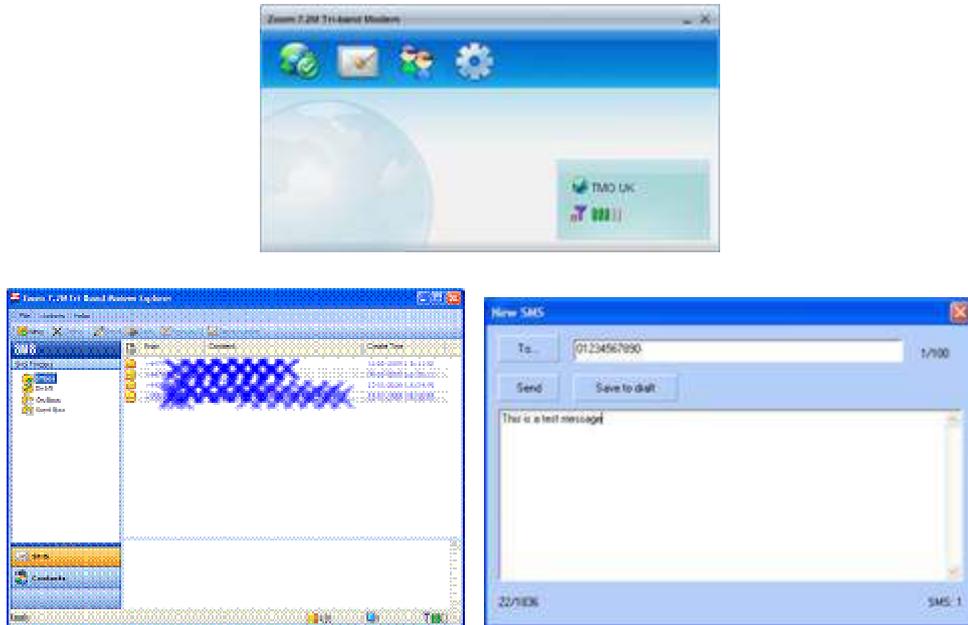
When you connect the modem to the computer, Windows will give it a 'port number'. The port number will change if you plug it into a different USB port. Since The Grid 2 needs to know the port number, its best to always use the same USB port for your modem.

Plug the modem into the computer and wait a few minutes while Windows detects it and installs drivers. You may need to reboot the computer and then re-insert the modem.



B.2.3 Checking you can send and receive messages with the modem

Start the modem software running. It should detect the SIM card and show it is connected to the network:



B.2.4 Configure and Test The Grid 2

Start The Grid 2 and go to User Settings->Workspace Settings->Mobile Phone

Click the 'Autodetect' button. The Grid 2 may report more than one phone has been detected. If so, open the COM port box. After the Autodetect has run, it shows the identification for any modems or phones found. In this screenshot it has found the on board dial up modem on COM 3 and the USB modem on COM 9.



Select the correct port, and test the connection. The checkboxes next to the test button will show if the connection is working.



B.2.5 Troubleshooting

Autodetect fails:

- With some devices, The Grid 2 cannot access the modem while the manufacturer's software is running. Try shutting down the manufacturer's software.
- Windows may have allocated a COM port greater than 16 to the modem. Check our Sensory Answer online [Changing the COM port for a USB device](#) for more details.

Can't send:

- Make sure you are in an area where reception is good.
- Check you have credit on the SIM card, and can send and receive messages using the manufacturer's software.
- Some software switches off the transmitter in the modem when it exits. Check if there are options to prevent this.

B.3 Connect a mobile phone to The Grid 2 with Bluetooth

The Grid 2 allows you to send and receive SMS text messages via some bluetooth mobile phones. Please see the list above for compatible phones. These instructions are to guide you through the process of setting up your computer and mobile phone to communicate, and then set up The Grid 2 to find your mobile phone.

B.3.1 Install your bluetooth adaptor

The first step is to install your bluetooth adaptor. Usually this will be a small USB device. Your computer may already have Bluetooth, in which case you do not need to follow this step. When you connect it to your computer, Windows will

detect it (which may take a few minutes). When it is ready, you will have a notice saying "your new hardware is installed and ready to use."

B.3.2 Edit your Grid 2 user

The Grid 2 stores separate mobile phone settings for each user.

- Select the user that you want to send/receive SMS messages.
- Select **Edit > User Settings** from the menu.
- Select **Workspace Settings > Mobile phone** from the categories.

B.3.3 'PAIR' your phone to your computer

The next step is to 'pair' your phone with your computer. Bluetooth works by 'pairing' devices (such as a computer and a phone) so that they have permission to control each other.

- Click on the **Windows Bluetooth Settings** button in The Grid 2.
These instructions are for Microsoft Bluetooth Drivers. If nothing happens when you click on Bluetooth Settings, you probably have an adaptor that uses the Widcomm driver. The process is similar, but some buttons may have different text and some steps may take place in a different order.
- In Bluetooth Devices, click the button **Add...**
- Ensure that your phone has **Bluetooth turned on**, tick the box and click **Next**.
- Select your phone from the list of available devices, and click **Next**.
- Allow Windows to choose a passkey and click **Next**.
- A message will come up on your phone saying that your computer is trying to connect. Type the passkey into your phone.
- Windows will establish connection with your phone. Click **Finish** to close the Wizard.
- In the Bluetooth Devices window, select the **COM Ports** tab.
- Check which number has been assigned to the **Outgoing** port for your phone. You might have more than one outgoing COM port for your phone. Use the first one in the list in this case. If there are no outgoing COM ports listed then your phone is not compatible with SMS in The Grid 2.
- Click **Ok** to close Bluetooth Devices.

B.3.4 Setting up The Grid 2 for SMS

You can now configure your Grid 2 user to connect to the mobile phone.

- Select the outgoing COM port for your phone (from the previous stage). If you do not know which one it is, you can click **AutoDetect** and The Grid 2 will try to determine which port it is.

- Select the **country code** for phone calls in your country.
- Click on **Test** to test the connection to the phone.
The Grid 2 will connect to the phone and test that it can download the inbox. It will then try to send an SMS - enter a phone number when prompted to test SMS sending, or click cancel to skip this test.

B.3.5 Security settings on the phone

Some phones have a security setting that controls how your computer can connect to the phone. This may cause the phone to ask you to click a button each time Grid 2 tries to connect to the phone. As an example, the followings settings are for a Sony Ericsson w850i walkman phone:

- Select: Connectivity->Bluetooth->My Devices
- Scroll through the list of paired devices to select the computer
- Select: More->Allow Connection->Always allow

That's it! You're now set up to use your phone with The Grid 2 for SMS messages. Try using our pre-made SMS grids to get you started.

APPENDIX C: Environment Control

The Grid 2 allows you to integrate “environment control” (EC) directly into your grids. Examples of devices that can be controlled in this way include:

- TV, DVD player or digital/satellite box.
- CD player or radio.
- Adapted electronic switches, such as light switches and heating controls.
- Motorised door, window and curtain openers.
- Remote control toys.

A good rule of thumb is to assume that if the device has a remote control, then your EC unit can be trained to control your device.

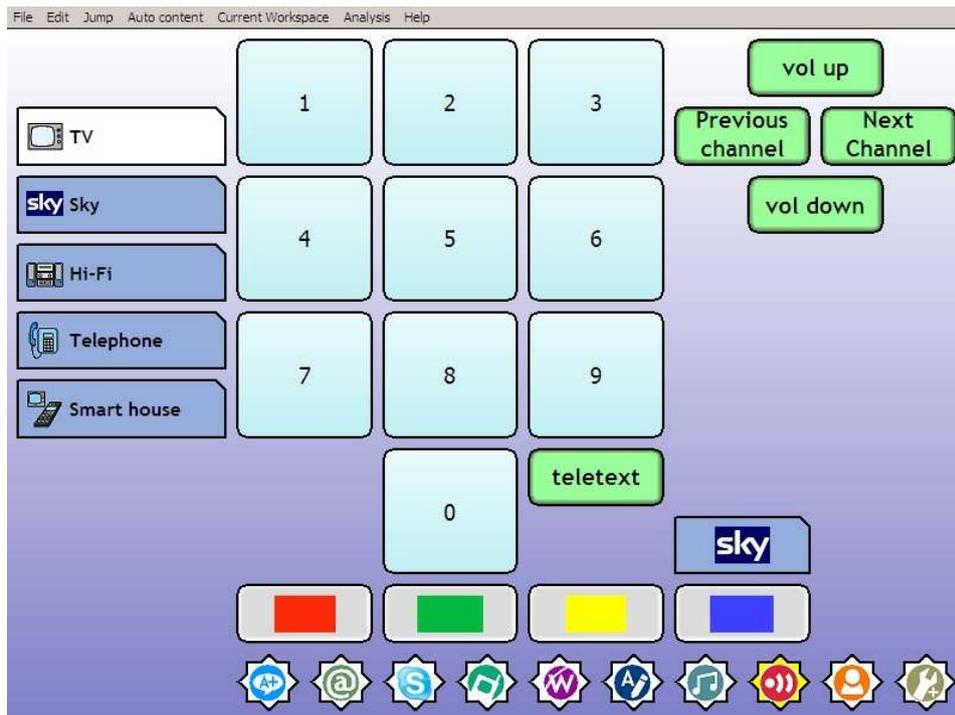
The Grid 2 supports a range of EC systems, which include GEWA, TIRA and UIIRT. If you are not sure which system you have, please get in touch. Listed below are our devices which have an integrated EC system.

DEVICE	EC SYSTEM
Powerbox 5	UIIRT & Z-Wave
Powerbox 6	GEWA
MyTobii P10	GEWA
Tobii C-Series	TIRA
BackBox	GEWA

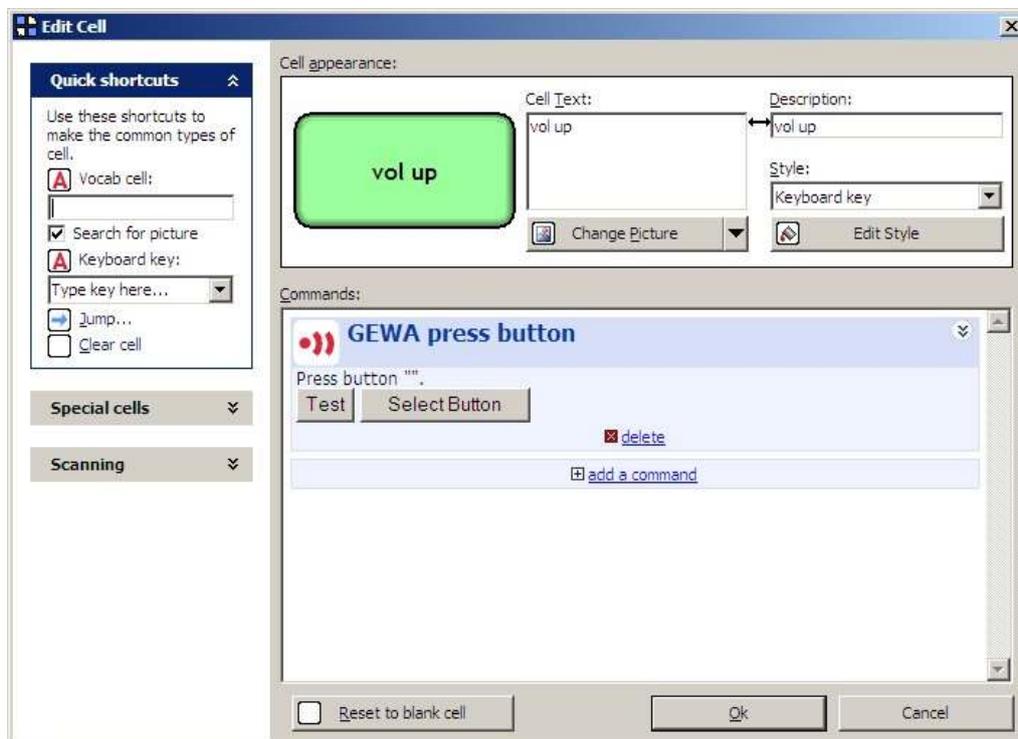
C.1 Setting up with GEWA

Many of our standard grid sets include basic template grids for setting up Environmental Control to use with your TV, Hi-fi and other devices, and are usually set up with the appropriate GEWA command. The next step is for the GEWA unit to ‘learn’ the codes associated with various buttons on your remote controller.

Here is an example grid set up to include all functions for a TV, but you can build your own grids as well.



Enter editing mode by pressing F11, and choose a cell that you want to edit, such as the **vol up** cell. If there is not a **GEWA press button** command showing in the edit window, click on **add a command** and type GEWA into the search box. Select **GEWA press button** from the list, and click on OK.



Once you have the command shown above, click on **Select Button**. If this is the first time you have used the environment control, select **COM Port** and then **Auto Detect** to locate the GEWA Prog.

Choose a button (you have 256 at your disposal!), and rename it to something relevant, e.g “TV vol up”. Click on the **Rename** button to do this.

Ensure the button is highlighted, and select **Learn from remote**.



Locate the EC window on your device, it usually looks like a dark piece of plastic or glass, and point the remote control towards it. Click on the **Start learning** button, and follow the instructions listed. The first instruction is to hold down the button on the remote control. In this example, it will be the ‘Volume up’ button. Once there is a green tick in the first box, release the button and press it again quickly. You will now have 3 ticks displayed.

If you have problems with this, make sure the remote control is close to the EC window, and pointing directly at it. If you continue to have problems, click on **Cancel** and select **Prog** and **Check alignment** from the previous window to check you are holding the remote control in the correct place.



Once you have trained this button, you can test it works by clicking on **Test button**. When you are finished, press **OK** to return to the editing grid.

This process can now be repeated for all the other buttons on your remote control.

C.1.2 Advanced options with GEWA

Previously we chose to add the **GEWA press button** command, but there are some other commands available for use with the GEWA unit, which are listed here:

GEWA continuous button

This option is useful when wanting to avoid repeated pressing of one button. For example, if used with the volume button, the volume would increase until you selected the volume cell again. This is useful when using scanning, so that you don't have to repeatedly navigate to the volume button when significantly varying the volume.

GEWA hold button

Some devices can be fussy about the amount of time a button needs to be held down for. For example, if you press the number one on your TV remote too long, it will take you to channel 11 rather than channel 1. This command can be used to minimize or maximize the time required to hold down the button.

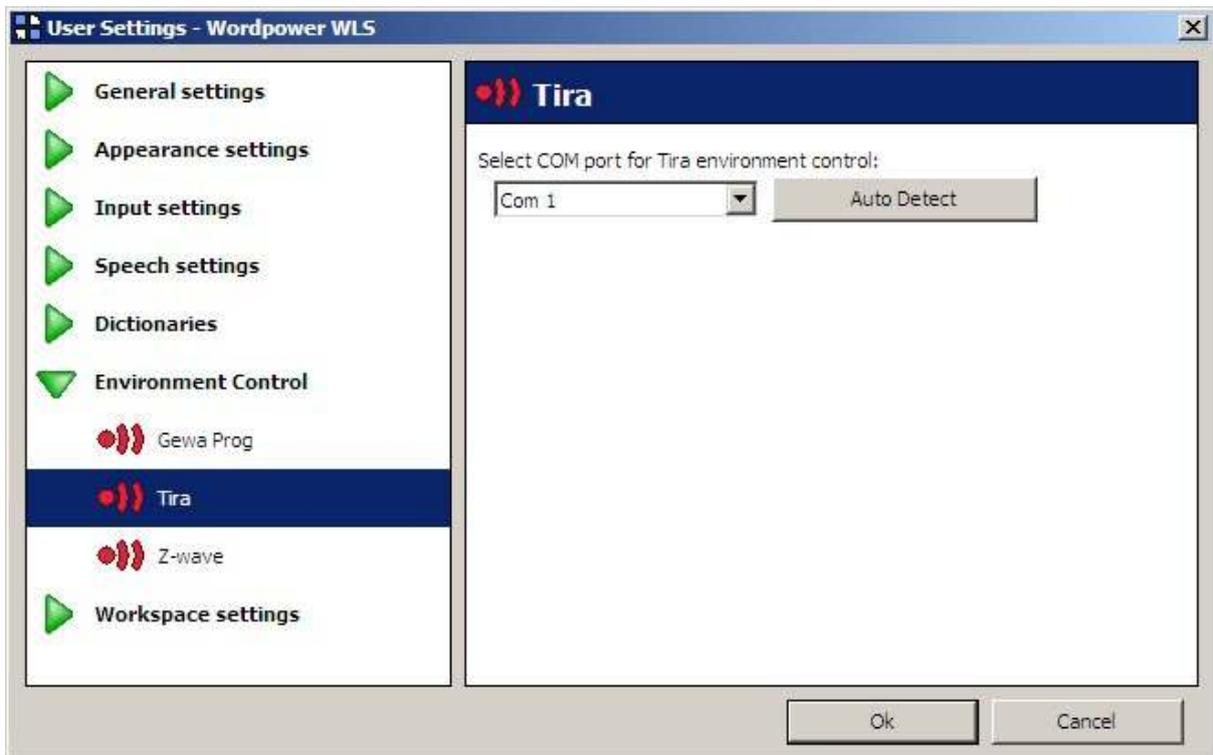
GewaLink commands

Some EC devices, such as dedicated lights or curtain openers, may specify which GEWA codes need to be used. You can enter the code, rather than using the remote control to learn particular functions.

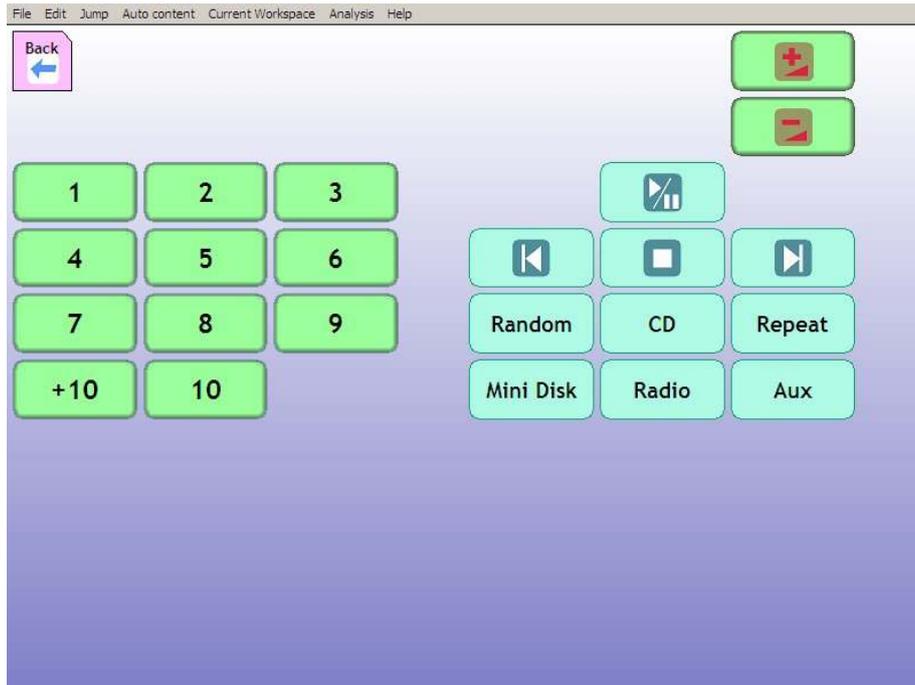
C.2 Setting up TIRA and UIIRT

Many of our standard grid sets include basic template grids for setting up Environmental Control to use with your TV, Hi-fi and other devices, and are usually set up with the appropriate GEWA command. However, it is easy to replace this with a TIRA or UIIRT command. Although TIRA and UIIRT systems are different, the set up procedure within The Grid 2 is very similar.

If you have a TIRA system, go to User Settings -> Environmental Control -> TIRA, and select the **Auto detect** button. This will find the TIRA hardware, ready for you to use. Then return to the grid you wish to edit. This is not required if using UIIRT.

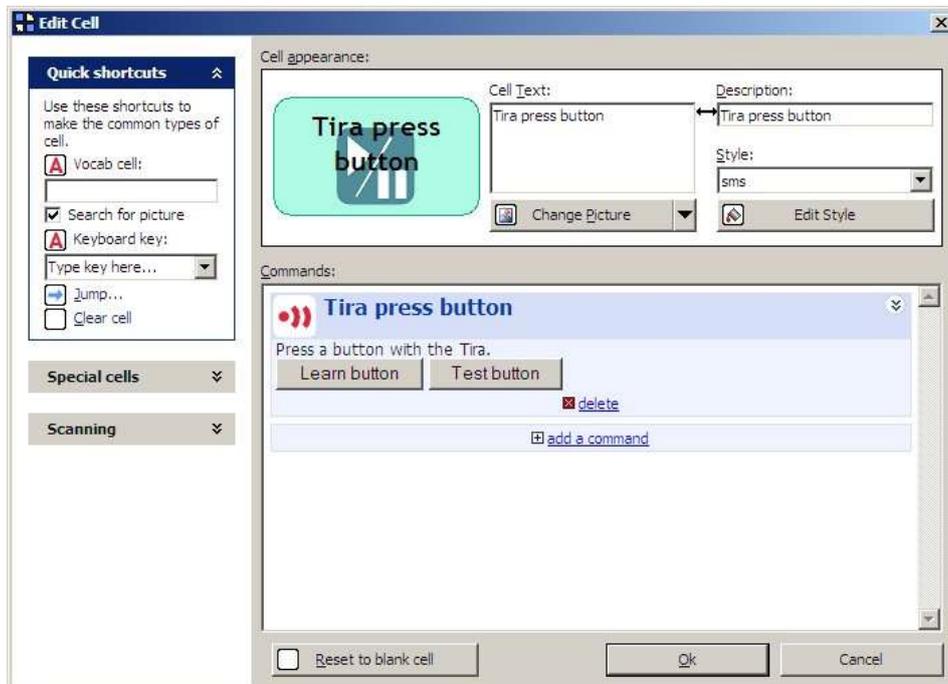


Here is an example grid to include all functions for a CD player, but you can edit the grid to look however you want.



Enter editing mode by pressing F11, and choose a cell that you want to edit, such as the **Play** cell. If there is a **GEWA press button** command showing in the edit window, delete it.

Click on **add a command** and type TIRA or UIIRT into the search box top left. Select the relevant **UIIRT press button** or **TIRA press button** command from the list, and click on **OK**.



Select **Learn button**, and another window will appear. Hold your remote control close to the EC sensor, as instructed, and click on **Start learning**.