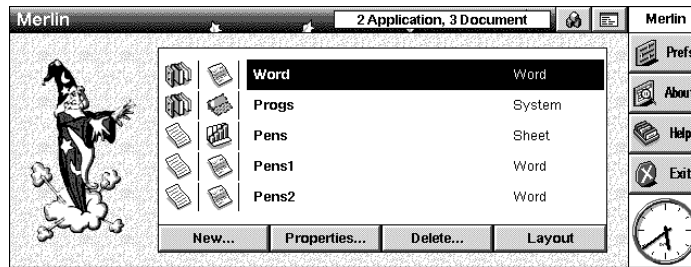


Merlin



Neuon

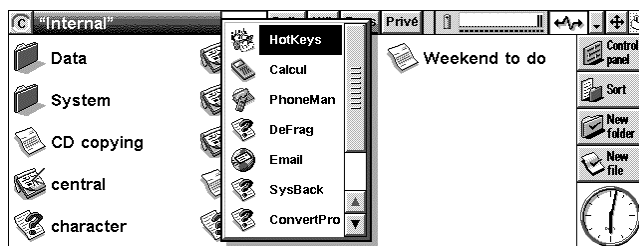


You can learn more about our dynamic company, and expanding EPOC software portfolio, from Neuon's web site at www.neuon.com

If you are a visionary C++, Java or OPL32 developer, motivated by doing something different, excited by challenges, relish the prospect of working with kindred spirits, and recognise the value of a dedicated support team, Neuon would like to hear from you.

Neuon - where innovation and quality are principles, not an afterthought.

Introducing Merlin



Merlin provides an unprecedented level of customisation for your machine.

With all the power and speed of C++, the same programming language used by the standard EPOC applications, Merlin allows you to create application and document toolbars which are made available automatically every time you launch or switch to the target host. And once you have created a toolbar, the fun begins as you add items to it.

Designed to be easy to use and intended to remain open all the time, there is no limit to the number of toolbars which can be created, and existing toolbars can be edited whenever required. With a powerful plug-in interface, Merlin offers limitless possibilities for the type of controls which can be added to a toolbar.

You can populate a toolbar with a variety of controls to launch applications and documents, switch to folders in the system shell, run macros to automate tasks, create a glossary of frequently used text and graphics, and even launch your favourite web sites. Additional custom controls provide access to commonly used system functions, such as toggling the status of the Remote Link.

Featuring powerful possibilities inside an easy-to-use interface, Merlin is the solution for seamless EPOC device customisation.

How to Register

Merlin is not free software. For full details of the licence conditions, see the topic **Licence Conditions & Limited Warranty**.

In accordance with the **Licence**, once the 30 day evaluation period has expired, Merlin must either be licensed by registration on payment of £15, or be removed from the EPOC device.

Licensing of Merlin simply requires the input of a registration code (**Tools | Registration in Merlin Central**). There is no need to re-install Merlin. To register Merlin and receive your personal code, you can use one of two methods:

1. ONLINE Registration

For speed of use, this is the recommended registration method. Using a secure, reliable online registration contractor, NEUON will provide you with your unique registration details with minimal fuss, and minimal delay. To register online, go to www.neuon.com

2. OFFLINE Registration

Merlin can be registered via conventional mail. A choice of registration addresses is listed below.

Please ensure that any cheque / international money order is sent in the correct denomination according to the address you register at. We ask that you include:

- an email address, or
- a stamped addressed envelope. If you are not able to provide this, please add an additional 1USD (dollar) or 1UKP (UK pound) to the application registration cost. Failure to include either the handling charge, or a stamp, may result in a processing delay.

To maximise the efficiency of registration by post, you have three options:

- A UK sterling cheque (made payable to **Alex Wilbur**) or money order to:
Neuon Applications Registration,
13 Warminster Road,
Westbury,
Wiltshire.
BA13 3PA
UK
- a US dollar cheque (made payable to **Ben Vaisvil**) to:
Neuon Applications Registration,
632 Concord St.
Aurora,
IL 60505
USA
- an International Money Order (made payable to **Gary Belcher**) drawn on a US bank:
Neuon Applications Registration,
11 Derwent Road,
Marlborough,
Harare,
Zimbabwe

Release History

v1.00

First public release, with following controls:

- Battery information
- Button
- Link toggle
- Positioner

- Sound toggle
- Spacer

Future plans

The following is a non-exhaustive list of ideas for the next release.

Multiple toolbars – more than one per application or document.

Additional plugins:

- Find file
- Caps lock
- Memory defragment
- Send email / SMS
- Task list
- Spell and Thesaurus
- Date/time
- Send files to Folder
- Encrypt selected file
- Compress selected file

If you have an idea for a plugin, please send your suggestion to merlin@neuon.com

All suggestions and feedback is welcome.

Licence Conditions & Limited Warranty

Merlin is Copyright (c) 2000 Neuon. All Rights Reserved.

By installing Merlin you are agreeing to the following terms and conditions. Please read them carefully.

This is an evaluation version. An evaluation version lets a person try out a program before buying it. While evaluation versions are copyrighted and the copyright holder retains all rights, the author specifically grants the user the right to evaluate and distribute the program with limited exceptions.

After using the evaluation version for a defined trial period, the user must purchase a licensed copy of the program or remove the evaluation version from their EPOC device.

The trial period for Merlin is 30 days from first use.

You are encouraged to:

1. Upload this evaluation version to any electronic bulletin board or www site.
2. Demonstrate the evaluation version and its capabilities.
3. Give copies of the evaluation version to potential users, so that others may have the opportunity to obtain a copy for use in accordance with the licence conditions.

End-user license agreement

IMPORTANT- READ CAREFULLY: This End-User License Agreement ("EULA") is a legal agreement between you (either an individual or a single entity) and Neuon for the software accompanying this EULA, which includes EPOC device software and may include associated media, printed materials, and "online" or electronic documentation (The "SOFTWARE"). By exercising your rights to make and use copies of the SOFTWARE, you agree to be bound by the terms of this EULA. If you do not agree to the terms of this EULA, you may not use the SOFTWARE.

License

1. Grant of license

This EULA grants you the following rights:

- a) You may install and use only one copy of the SOFTWARE at any given time.
- b) At the end of the trial period you are required to either Register the SOFTWARE, in order to convert it to a licensed copy, or remove it from your device. Instructions on the Registration procedure are contained in the help file topic **How to Register**.
- c) You may not reverse engineer, decompile, or disassemble the SOFTWARE, except and only to the extent that such activity is expressly permitted by applicable law notwithstanding this limitation.
- d) The SOFTWARE is licensed as a single product. Its component parts may not be separated for use on more than one EPOC device.
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c) No liability for errors or omission

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Merlin: Quick start

Use MERLIN to attach customisable toolbars to applications and documents. You can:

- Add a toolbar to any application or document. Toolbars can be created for any application and different toolbars for individual documents are also possible.
- Populate each toolbar with a variety of controls for launching other applications and documents, running macros, accessing system features (such as the remote link), providing shortcuts to system folders, and much, much more.
- Toolbars appear automatically when the parent application/document appears in the foreground. Toolbars can also be shared with any other application or document in response to a configurable system-wide toolbar hotkey.

To make a toolbar requires 2 steps:

- Creating a new toolbar

- Adding items to the toolbar

To create a new toolbar:

1. Tap the **New** button in the main Merlin window ("**Merlin Central**"), or use the menu item **Toolbar | Create new....**
2. Provide a **name** for the toolbar.
3. Decide which **type** of toolbar you want:

An application toolbar is available to any document in use by the toolbar's parent application.

A document toolbar is only available automatically to the specific document to which it is attached.

Merlin Central graphically shows whether a toolbar is an application or document toolbar, and to which application or document it is attached.
4. You can select whether the toolbar **floats** (can be moved around the screen using the pointer) and whether a floating toolbar should be **locked** at its current location.
5. Select the dialog page tab corresponding to the type of toolbar you have requested and select the application or document to attach the toolbar to.
6. The **Hotkey** tab allows you to set a hotkey to call the toolbar. This hotkey is available system-wide and toggles around the following behaviour:
 - Displays the toolbar
 - Gives the toolbar keyboard focus, so toolbar items can be selected using the **cursor** and **enter** keys
 - Minimises/maximises a toolbar if it supports resizing, or
 - Hides the toolbar
7. The **Advanced** tab provides options to:
 - Decide in which direction a re-sizeable toolbar expands
 - Set the toolbar as the global default toolbar, used by every application and document when no other toolbar is defined.
 - Create a toolbar based on an existing toolbar.
8. Select **OK** to create the toolbar.

Once you have created a toolbar, you will be presented with the **Layout editor** where you can add controls to the new toolbar.

The Layout editor displays a number of controls (such as "Battery info", "Button", "Link toggle") which may be added to the toolbar, by selecting the control and tapping on the **Add** button, or by using the menu item **Item | Add plugin....** Depending on which control you have added, you may then be presented with options to configure the control. For example:

- For a **button** control, you can choose whether the button is a **simple button** (which only executes one task), or a **Listbox** (which is a container for many other items you can then select from). A listbox is a useful way to provide one button access to a number of your favourite applications and documents, shortcuts to system folders, macros etc.

Once you have finished adding controls, tap the **Done** button

You can edit the configuration of a toolbar at any time by selecting it in Merlin Central and using the **Properties** or **Layout** buttons.

- Properties controls the type of toolbar and its parent application or document
- The Layout editor controls the items on the toolbar


To remove a toolbar, use the **Delete** button.

To edit the configuration of an existing toolbar control, within the **Layout editor** select the required control (by tapping on the control or by using the left and right

cursor keys). If the control can be edited (such as a button control) the Layout editor's **Edit** button will be available.

To change the position of a control on a toolbar, in the Layout editor:

- Select the control to move, either by tapping it with the pen, or using the left/right cursor keys.
- Hold down the **shift** key whilst using the cursor keys.
- Drag the highlighted control to the new position using the pen, or use the menu items **Edit | Cut** and **Edit | Paste**.

 You can cut and copy items between toolbars using the menu command **Edit | Paste to...**

Merlin: Preferences

Use the menu item **Tools | Preferences** or the **Prefs** button in Merlin Central to set Merlin's preferences.

- General
 - You can change the frequency at which Merlin checks to see which application or document is currently focused. The greater the time, the slower will be toolbar display time.
 - Select whether toolbars are hidden when the Extras bar is displayed.
 - Select whether all toolbars share the same visibility. When **Global visibility** is checked, toolbars are displayed in the same state as the previous toolbar (maximised/minimised).
- A toolbar only supports maximising and minimising if it is configured as a floating toolbar in **Toolbar | Properties | General**
- Macros

Set the Folder where compiled macro files are stored.
- Task switching
 - Enable Merlin's task switching facility. Once enabled, pressing the Task switching key combination will cycle through open tasks, exactly the same way as if pressing **Fn+Ctrl+System**
 - Set a global hotkey to display the System task list, exactly the same as pressing **Ctrl+System**
- Backlight

Sets options for the control of the Backlight when the device is switched on, is using mains power and to override the system Backlight timer settings.
- Advanced

Select a **Global Hotkey** to change the status of the current toolbar. Pressing the hotkey will toggle around the following behaviour:

 - Maximises the toolbar
 - Gives the toolbar keyboard focus, so toolbar items can be selected using the **cursor** and **enter** keys
 - Minimises/maximises a toolbar if it supports resizing, or
 - Minimises the toolbar
- Rebuild icons

Merlin rescans all the installed applications and, as required, adds their icons to its icon cache.
- Import icons

Adds user selected icons from a **mbm** or **Sketch** file to Merlin's icon cache. If the file is a **mbm** file, the **Image** page allows the selection of the particular icon and mask to import. (See also **Toolbar item: Icons**)

Merlin: Views

Merlin has three views, **Merlin Central**, the **Layout editor** and the **Toolbars** themselves.

1. Merlin Central is the main view and shows the toolbars which are currently defined. Toolbars are created, configured and deleted in this view.

2. The Layout editor manages the controls on a toolbar. The Layout editor graphically shows the items currently on the toolbar, and the range of controls which can be added to a toolbar.

3. The Toolbars appear in the application or document to which they are attached. This is determined by the Toolbar's properties during creation of a new toolbar, and as may be edited in Merlin Central.

■ **It is also possible to access any toolbar** from within any application or document if the toolbar has a hotkey. When the hotkey associated with a toolbar is pressed, Merlin will toggle around the following actions:

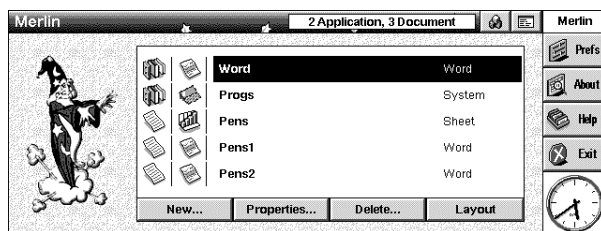
- Displays the toolbar
- Gives the toolbar keyboard focus, so toolbar items can be selected using the **cursor** and **enter**, **tab** or **space** keys
- Minimises/maximises a toolbar if it supports resizing, or
- Hides the toolbar

A toolbar hotkey is specified by selecting the required toolbar in Merlin Central, and tapping the **Properties** button (or the menu item **Toolbar | Properties...**). Navigate to the **Hotkey** page of the dialog and select the required hotkey.

■ A toolbar only supports resizing if it is selected as a floating toolbar in **Toolbar | Properties | General**

■ When the toolbar has keyboard focus, an item can only be executed by pressing the **enter** key. Tapping the item will not execute it.

About: Merlin Central



Merlin Central is the main view of Merlin. It displays the toolbars currently in use, either as an Application or Document toolbar.

Application toolbars are available to all documents of the parent application.

Document toolbars are available only to the specific document to which they are attached.

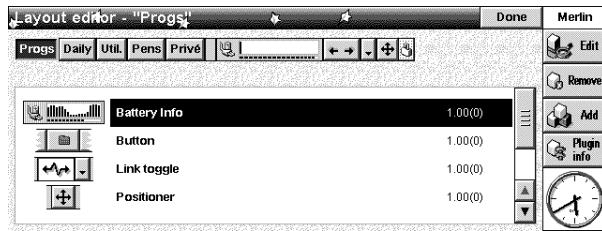
Use **Merlin Central** to:

- Create a new toolbar
- Set a toolbar's properties
- Delete a toolbar
- Switch to the toolbar layout editor

Select a toolbar from the list of those defined by tapping on it in the listbox, or by highlighting using the cursor keys.

The button on the **Merlin Central** title bar **goes back** to the last focused task.

About: Layout editor



Use the **Layout editor** to configure the items on a toolbar. The editor graphically shows the layout of the current toolbar (as selected in **Merlin Central**) and a scrolling list of Controls (Plugins) which can be added to the toolbar.

The top two buttons of the editor's side toolbar (**Edit** and **Remove**) act on the currently selected item in the toolbar. **Add** and **Plugin info** act on the selected Control in the scrolling listbox.

- To select a toolbar item tap it, or use the left/right cursor keys.
- To select a control in the scrolling listbox, tap on it or use the up/down cursor keys.
- To add a new toolbar item, select the control to add and tap on the **Add** button (or use the menu item **Item | Add plugin...**). If the control you have added requires further configuration (such as a **Button**) you will be presented with further items. The actions required to configure controls are documented in the relevant **Toolbar item:** help topic
- To remove a toolbar item, select the item on the toolbar, and tap **Remove** (or use the menu item **Item | Remove...**)
- To edit a toolbar item, select the item in the toolbar and tap **Edit** (or use the menu item **Item | Edit...**). If the Control cannot be edited, such as a **Sound** plugin, a message will tell you this. The actions required to configure controls are documented in the relevant **Toolbar item:** help topic.
- To change the position of an item on the toolbar:

Select the control to move and drag the highlighted control to the new position using the pen, or use the menu items **Edit | Cut** and **Edit | Paste**

Select the control and move using the **shift+left/right cursor keys**

Once you have finished editing a toolbar, press the **Done** button, or use the menu item **Layout | Done**.

You can share items between toolbars using the menu items **Cut, Copy and Paste to**

About: Toolbars



The purpose of **Merlin** is to provide customisable toolbars attached to an application or a document. Toolbars are created and configured in **Merlin Central**. Items are added to a toolbar using the **Layout editor**. Toolbars are automatically displayed in their parent application / document when the parent is the focused task.

To use an item on a toolbar you can:

- Tap the item using the pen
- Give the toolbar keyboard focus, select the item using the **left/right cursor keys** and press **enter, tab or space**. If you change your mind, to release keyboard focus from the toolbar, press **esc** or tap anywhere other than on the toolbar.
- In order to give the toolbar keyboard focus, you must first have defined a **hotkey** for the toolbar. To do this select the toolbar's **Properties** in **Merlin Central** and navigate to the **Hotkey** tab.

When you press a toolbar's hotkey, Merlin toggles around the following responses:

- Displays the toolbar
 - Gives the toolbar keyboard focus, so toolbar items can be selected using the **cursor** and **enter, tab or space** keys
 - Minimises/maximises a toolbar if it supports resizing, or
 - Hides the toolbar
- When the toolbar has keyboard focus, an item can only be executed by pressing the **enter** key. Tapping the item will not execute it.

About: Toolbar items

Toolbar items are added to a toolbar, configured and managed using the **Layout editor**. See the topic **About: Layout editor** for more information.

In use, toolbar items can be accessed using the pen or keyboard. For information on using the keyboard with toolbar items, see the topic **About: Toolbars**.

About: Macros

Typically macros are used to automate repetitive tasks, though they can be very complex and almost full applications in their own right. For EPOC they are documents created by the **Program** application which have been translated into executable format (.opo).

The simplest form of macro is the recorder type which records your keypresses and movements between programs. When replayed, the macro echoes what you did. This type of macro requires no programming experience. Merlin includes this type of macro as a **Key** item for attaching to a toolbar button, or including in a toolbar button listbox. (See **Toolbar item: Key scripts**).

More complex macros require an understanding of programming logic, and learning commands and syntax. If this is not you, you can still benefit from macros written by others and freely distributed.

Merlin supports the leading macro program for EPOC, Macro5 (which is free), and macros created using Escript from EPOCPlus. Macro5 also includes a recording facility plus a runtime library of routines (Macro5Lib) which simplify the creation of more complex macros and, importantly, allow the macros to be executed. There are many macros available which have been written to use the Macro5 macro library, which is installed by Merlin along with the Escript macro library.

Macros do not normally launch on their own and are reliant on a client to load the program, any additional procedure library, and to instruct the macro to run. Merlin meets this requirement. However, as with other macro host applications, you can only run one macro at a time. Additionally, unless special provision is made, the macro executing application (e.g. Merlin) cannot receive instructions from the macro itself.

It is not Merlin's intention to teach you how to create macros, but it does support their use. You will be able to use the macros others have written and released, from within Merlin. If you wish to experience macros, a large collection of released macros is available from the **Macro5** web site <http://pnicolas.epocboulevard.com/> or from the link on the Merlin page on the Neuon website at www.neuon.com

If you decide to create your own macros, never use the STOP command, as this will also stop Merlin's macro manager.

See the topic **Toolbar item: Macros** for information on running macros with Merlin.

Toolbars: Creating

To create a new toolbar:

1. Tap the **New** button in the main Merlin window ("Merlin Central"), or use the menu item **Toolbar | Create new...**
2. Provide a **name** for the toolbar.
3. Decide which **type** of toolbar you want:
 - **An application toolbar** is available to any document in use by the toolbar's parent application
 - **A document toolbar** is only available to the specific document to which it is attached.
4. **Merlin Central graphically shows** whether a toolbar is an application or document toolbar, and to which application or document it is attached.
5. You can select whether the toolbar **floats** (can be moved around the screen using the pointer) and whether a floating toolbar should be **locked** at its current location.
6. Select the dialog page corresponding to the type of toolbar you have requested and select the application or document to attach the toolbar to.
7. The **Hotkey** page allows you to set a unique hotkey for the toolbar. Pressing the hotkey will display the toolbar in the currently focused task even if this is not the toolbar's usual parent. A toolbar hotkey cycles round the following behaviour:
 - Display the toolbar
 - Toolbar items can be selected using the **cursor** and **enter**, **tab** or **space** keys
 - Minimises/maximises a toolbar if it supports resizing, or
 - Hides the toolbar
8. The **Advanced** tab provides options to:
 - Set the toolbar as the global default toolbar, used by every application and document when no other toolbar is defined.
 - Base the new toolbar on an existing toolbar.
9. Select **OK** to create the toolbar.

Once you have created a toolbar, you will be presented with the **Layout editor** where you can add controls to the new toolbar.

Toolbars: Properties

A toolbar's properties control the type of toolbar, its parent application or document and its behaviour and are first established when a toolbar is created. The content of a toolbar is controlled using the **Layout editor**.

To access a toolbar's properties, select the toolbar in **Merlin Central** and tap the **Properties** button (or use the menu item **Toolbar | Properties...**)

For information on the Properties options available, see the topic **Toolbars: Creating**

Toolbars: Editing

To edit an existing toolbar:

Tap the **Properties** button in the main Merlin window ("Merlin Central"), or use the menu item **Toolbar | Properties...**

For more information on using the **Layout editor** see **About: Layout editor**.

Toolbars: Deleting

To delete an existing toolbar:

Tap the **Delete** button in the main Merlin window ("Merlin Central"), or use the menu item **Toolbar | Delete....**

For more information on **Merlin Central** see **About: Merlin Central**.

Toolbars: Hiding

To hide a toolbar you can:

- Select the maximise/minimise button. This button is only available if you have set the toolbar to float (see **Toolbars: Properties**)
- Toggle the toolbar's hotkey until the toolbar is hidden. For more information see the topic **Toolbars: Properties**.

Toolbars: Positioning

To position a toolbar you can:

- Drag it around the screen using the pen if it has been configured to float.

To configure a toolbar to float see the topic **Toolbars: Properties**.

To lock a toolbar in a position requires the setting of the **Lock** option on the **Toolbar properties' General** page.

A locked toolbar cannot be moved by dragging (see **Toolbars: Properties**)

- Add a Positioner control to the toolbar (using the **Layout editor**) and select the relevant location.

Toolbars: Default toolbar

Merlin allows you to set a toolbar as a global default toolbar. In this case, the specified toolbar will be displayed when no other toolbar is defined for the application or document which is the focused task.

To set a toolbar as the global default, check the **Global default** option on the **Advanced** page of the **Toolbar Properties** dialog, accessed from **Merlin Central**. For more information, see the topic **Toolbars: Properties**.

Toolbars: Adding items

To add an item to a toolbar:

1. In **Merlin Central** select the required toolbar in the listbox
2. Switch to the **Layout editor** by tapping the **Layout** button or selecting the menu item **Toolbar | Layout** or **View | Switch view | Layout editor**
3. In the listbox of controls in the layout editor, select the control to add to the toolbar, and press the **Add** button, or use the menu item **Item | Add plugin**.

If the control you have added is an editable control, the control's configuration dialog will automatically be displayed.

- ☐ You can share items between toolbars using the menu item **Edit | Copy/Cut** and **Edit | Paste to**

For further information on controls, see the relevant **Toolbar item:** topic.

Toolbar item: Editing

To edit a toolbar item:

1. In **Merlin Central** select the required toolbar in the listbox
2. Switch to the **Layout editor** by tapping the **Layout** button or selecting the menu item **Toolbar | Layout** or **View | Switch view | Layout editor**
3. Select the control to edit by tapping it, or use the left/right cursor keys.

4. Edit the control by tapping the **Edit** button, or use the menu item **Item | Edit**

If you have selected a non-editing control, a message will inform you that the control cannot be edited.

For further information on controls, see the relevant **Toolbar item:** topic.

Toolbar item: Positioning

To change the position of a control on a toolbar:

1. In **Merlin Central** select the required toolbar in the listbox
2. Switch to the **Layout editor** by tapping the **Layout** button or selecting the menu item **Toolbar | Layout** or **View | Switch view | Layout editor**
3. Select the control to edit by tapping it, or use the left/right cursor keys.
4. Move the control by:
 - Dragging it to the new location
 - Using the menu items **Edit | Cut** and **Edit | Paste**.
 - Using the **shift + cursor** keys

Toolbar item: Battery info

The Battery information control is an editable control which graphically shows battery information.

The control can be configured:

- For the frequency which it checks battery information
- To enable a warning when batteries are low

In use, the Battery information control has 2 modes which are toggled when the control is selected:

- **Mode 1** The main level voltage is shown on the right hand side in figures, and graphically as a progress bar from 0-100%
 - **Mode 2** The central window operates in split screen mode. The top part of the window shows live usage of battery current now. The bottom of the window is a miniature version of the main battery level progress bar in Mode 1.
- When the device is on mains power the left icon changes from a battery to a plug and there is no reading for the "Battery current now" screen in **Mode 2**.

Toolbar item: Button

A button control is an editable item which adds a button to the toolbar. The button can be either:

- A **simple button** which only executes one task
- A **Listbox button** which displays a listbox which is a container for many other items you can then select from. A listbox is a useful way to provide one button access to a number of items.

See the topics **Toolbar item: Configuring a simple button** and **Toolbar items: Configuring a listbox button** for more information on the set-up of toolbar buttons.

Toolbar item: Configuring a simple button

A simple button is a toolbar button to which one action is attached. When the button is activated, the action is performed.

Once a simple button has been added to a toolbar (see **Toolbars: Adding items** and **Toolbar item: Buttons**) the button can be configured according to one of seven item categories. Each category requires individual completion of its **Configure item** multi-page dialog, which is shown after item selection. However, common to all categories are the following three configuration items:

1. General

- Specify a caption for the button
- Decide the preferred button layout

2. Advanced

- Decide what Merlin should do once the button has been actioned (Do nothing, send the toolbar parent to the background or Minimise the toolbar)
- Decide the appearance of any font on the button

■ A toolbar can only be maximised/minimised if it is configured as a floating toolbar (**Toolbar | Properties | General** in **Merlin Central**)

3. Change icon

- If a relevant choice has been made on for the button layout, it is possible to select which icon should be shown on the button (see **Toolbar item: Icons** for more information on managing icons)

The seven item categories which can be assigned to a simple button, are:

- Application

A shortcut to any application

- Document

A shortcut to a document

Note: Merlin can only open documents which can be opened from the **System** screen plus mbm files.

- Bookmark

A shortcut to any Folder in the System screen.

- Macro

A shortcut to a macro. For more information see **Toolbar item: Macros**

- Key

Record a script of key combinations to replay at the touch of a button. For more information, see **Toolbar item: Key scripts**

- Clipboard

Create a rich text glossary of text and graphic items. For more information see **Toolbar item: Clipboard**

- Website

Load the EPOC web browser with a favourite local or remote site.

Toolbar item: Configuring a listbox button

A listbox button is a container for many other items. When the toolbar button is activated, a listbox is displayed from which any item can be selected. The selected item is then actioned.

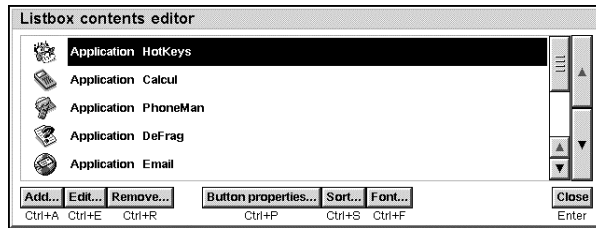
Once a listbox button has been added to a toolbar (see **Toolbars: Adding items** and **Toolbar item: Buttons**) the button requires its properties to be set, and then the listbox can be filled with items.

1. Button properties

- Give the button a caption
- Choose the type of button layout required
- Choose the font required for any caption
- Select an icon for the button, as required
- Decide the location of any icon
- Press **OK**

Once the button's properties have been defined, the listbox is populated and edited using the **listbox contents editor**.

2. Using the listbox contents editor



Use the buttons or keyboard hotkey combinations to **Add**, **Edit** and **Remove** items.

Use the **Sort** and **Font** buttons to change the listbox sorting order and the font used in the listbox.

- You can manually change the position of an item in the listbox using the **nudge** buttons on the right hand side of the listbox or using **shift+up/down cursor key**

Use the **Button properties...** button to change the properties of the button shown on the toolbar.

When adding an item to the listbox, you can choose from one of seven item categories. Each category requires individual completion of its **Configure item** multi-page dialog, which is shown after item selection. However, common to all categories are the following three configuration items:

1. General

- Specify a caption for the button
- Decide the preferred button layout

2. Advanced

- Decide what Merlin should do once the button has been actioned (Do nothing, send the toolbar parent to the background or Minimise the toolbar)
 - Decide the appearance of any font on the button
- A toolbar can only be maximised/minimised if it is configured as a floating toolbar (**Toolbar | Properties | General** in **Merlin Central**)

3. Change icon

- If a relevant choice has been made on for the button layout, it is possible to select which icon should be shown on the button (see **Toolbar item: Icons** for more information on managing icons)

The seven item categories which can be added to a listbox, are:

- Application
A shortcut to any application
- Document
A shortcut to a document
Note: Merlin can only open documents which can be opened from the **System** screen plus mbm files.
- Bookmark
A shortcut to any Folder in the System screen
- Macro
A shortcut to a macro. For more information see **Toolbar item: Macros**
- Key
Record a script of key combinations to replay at the touch of a button. For more information, see **Toolbar item: Key scripts**

- Clipboard

Create a rich text glossary of text and graphic items. For more information see
Toolbar item: Clipboard

- Website

Load the EPOC web browser with a favourite local or remote site.

Toolbar item: Icons

Merlin maintains a cache of icons to display on toolbar buttons and inside button listboxes. The cache is created when Merlin is first run. Whilst Merlin notes when an application has been added or removed from the system, for speed it does not add or remove the application's icon to its cache.

To refresh the cache, when you have added a new application, or you see a ? icon, select the **Merlin Central** menu item **Tools | Preferences** and use the **Rebuild icons...** button.

To add your own icons to the cache you can use the **Import icon** button in the **Merlin Preferences** dialog (accessed from the **Merlin Central** menu item **Tools | Preferences**), or:

1. Select any button item from any toolbar in the **Layout editor**.
2. **Edit** the selected item.
3. If the button is a listbox button, select **Button properties...** in the **Listbox contents editor**
4. Select any button marked **Change icon...** to access the icon selection dialog.
5. In the **Icon selection dialog** use the **Import...** button.

Once the **Import icon** dialog has appeared, select a sketch or mbm file to import. If the file is a **mbm** file, the **Image** page allows the selection of the particular icon and mask to import.

- Deleting individual icons in the cache is not supported in this version.

Toolbar item: Macros

See the topic **About: Macros** for an introduction to macros.

It is possible that not all macros may work with Merlin, as they may have been designed specifically to augment the Macro5 (or some other) user interface. Only trial and error will determine if the macro has been programmed to be universally executed. Please report any macros which do not work as expected to merlin@neuon.com

In order to facilitate the widest possible use of macros published by others, and to cater for individual preferences, Merlin has a number of options to control what happens when a macro is used. For most macros, the default actions should be suffice. These are:

- The background macro window is not visible. This means that macros based on dialogs appear to be seamlessly integrated.
- After running the macro, no further action is conducted.
- When the macro is launched the toolbar remains visible.

If you need to change these normal actions for a particular macro, use the **Options** and **Advanced** pages in the **Macro item configuration dialog**. This dialog is automatically displayed when attaching a macro item to a toolbar button, or adding to a toolbar button listbox.

The available choices are:

- Options

Macro window

As normal <default>

Make visible

After running the macro:

Do nothing <default>

Return to previous application.

- Advanced

Special action

Do nothing <default>

Send to background

Minimise toolbar

Minimise toolbar during execution

Merlin has a comprehensive error reporting system for problems when macros are executing. This will raise errors for problems within macros, and if macros terminate unexpectedly. Please report troublesome macros to merlin@neuon.com

Toolbar item: Clipbook

A clipbook item is one of the seven item categories which can be attached to a toolbar button, or added to a button listbox (see **Toolbar item: Configuring a simple button** and **Toolbar item: Configuring a listbox button** for more information).

A clipbook item allows the creation of a rich text item (text, graphics and embedded objects) which can be pasted into documents. A common use for the Clipbook could be a signature for an email, or a frequently used distribution list for a Word file, or a selection of clipart.

Clipbook supports the insertion of all objects registered with the System.

Toolbar item: Key scripts

A key script is one of the seven item categories which can be attached to a toolbar button, or added to a button listbox (see **Toolbar item: Configuring a simple button** and **Toolbar item: Configuring a listbox button** for more information).

A key script allows you to record any number of keypresses which can be automatically replayed at the touch of a button. Key scripts are useful for automating repetitive tasks, or for accessing deeply nested menu functions.

1. **Keys** are selected by pressing the required combination on the keyboard, or by selecting from the range of **Special keys**.
2. Select the required **delay** after the key.
3. **Save the key** to the key list (script)

- It is not possible to use the cursor keys to navigate from or within the **Key** page. Tap the required line, button or page tab with the pen instead.

On the **List** page, you can delete keys and alter the order of items in the script using the **nudge** buttons on the right hand side.

To **edit** an item, **delete** it and re-record the correct key combination, and position within the script as required.

- ☞ To quickly access a particular item on a menu card which does not have an associated hotkey, display the required menu card and use the cursor keys. You can display the required menu card by using the number keys 1,2,3 etc. corresponding to the menu card position numbered from left to right. The **home** and **end** keys can be used for the first and last menu card.
- ☞ As cursor keys toggle from the top item to bottom item, and vice-versa, it is quicker to select the bottom item on a menu card by going up from the top item.

Toolbar item: Link toggle

The link toggle is a non-editable control which toggles the **Remote Link** on or off using the current configuration of the **Remote Link** (Cable or Infrared). The toolbar icon shows whether the link is on (latched down) or off.

Toolbar item: Positioner

The Positioner is an editing control allowing a quick method of changing the toolbar's position, rather than having to drag it. By using the Positioner, the toolbar can be located at one of the four corners of the screen:

- Top left
 - Top right
 - Bottom left
 - Bottom right
- Floating toolbars (see **Toolbars: Properties**) which have been locked can still be moved using a Positioner control.

Toolbar item: Sound toggle

The Sound toggle is a non-editable control which toggles the Sound on (latched) or off. The sound configuration options (**Control Panel | Sound**) for Beeps, Key clicks and Screen clicks are unaffected.

Toolbar item: Spacer

The Spacer is a control for inserting spaces on the toolbar. The width of the spacer is editable.

Merlin: FAQ

1. How do I maximise and minimise a toolbar?

In the **Toolbar properties** dialog, select the item '**Allow as floating**'. This will add a maximise/minimise button to the toolbar. You can also use a toolbar hotkey (See the topic **About: Toolbars**).

2. Can I select toolbar items with the keyboard?

You must assign a hotkey to the toolbar. This can be done on a global basis using the **Advanced** page of Merlin's **Preferences** in Merlin Central, or on a case-by-case basis using the **hotkey** page of each **Toolbar properties** dialog. For further information, see the topic **About: Toolbars**.

3. What is the difference between a global toolbar hotkey and a toolbar specific one?

The global hotkey (set in Merlin's Preferences dialog on the **Advanced** page) acts on the current toolbar. If there is no toolbar displayed, the hotkey has no effect. A toolbar specific hotkey (set in the toolbar's **Properties | HotKey** page) acts only on the toolbar to which it is assigned. If this toolbar is not current, it will first be displayed. This provides a way to access a toolbar when you are not using its normal parent application or document.

4. How do I change the position of a toolbar?

You can either use a **Positioner** control on the toolbar, or set the toolbar to float (see **Toolbars: Positioning**)

5. Can I have a default toolbar?

Yes. See **Toolbars: Creating**.

6. I want the same toolbar in every application.

You can either create a toolbar and set it as a global default (see **Toolbars: Creating**) or once having created your template toolbar, for each new one you

create, use the **Advanced** option '**Base this toolbar on another**' in the **New Toolbar** dialog.

7. **Can I add my own icons for toolbar buttons?**

Yes. See the topic **Toolbar item: Icons**.

8. **Can I access another toolbar if I am not using it?**

Yes, provided the toolbar you want to access has a hotkey. See **Toolbars: Creating**.

9. **How can I control what happens when a toolbar item has been executed?**

You can determine what happens by setting the appropriate option in the configuration option for the item. See **Toolbar item: Configuring a simple button** and **Configuring a listbox button**.

10. **How do I hide the macro background window?**

This is an option in the configuration dialog for the macro item. See **Toolbar item: Macros**.

11. **How can I hide the toolbar when an item is executing?**

This is an option on the **Advanced** page in the item configuration dialog. See **Toolbar item: Configuring a simple button** and **Configuring a listbox button**.

12. **How do I quickly add the same item to a number of toolbars?**

You can either cut and copy items between toolbars using the **Layout editor** menu options **Edit | Copy** and **Edit | Paste to** or create a toolbar for a document you never use, configure it with the standard items you want and then, when you create a new toolbar, base the new toolbar on your unused document toolbar (see **FAQ** question 5).

13. **How do I copy an item from one toolbar to another?**

In the **Layout editor** copy the required item (**Edit | Copy**) and then use the menu item **Edit | Paste to**, where you can select which toolbar to paste the item to.

14. **What is that sound I hear when using folder bookmarks?**

If you have your device connected to a PC, and have the **Copyanywhere sound** enabled, the sound will play. This is due to the way the system is coerced to change folders.

About: Plug-ins

Merlin has been carefully designed so that 3rd parties may write both OPL or C++ custom solutions for the expansion of the core feature set. Neuron would welcome interest on developing 3rd party C++ "extensions" (plugins). Please contact merlin@neuron.com

Credits

Neuron's Merlin development team would like to thank you for trying Merlin, and the following beta testers for all their hard work:

Mark Avey
Nigel Bamber
Paul Beattie
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Mario Collado
Eriks Dobelis
Carel Elferink
Filip Everaert
Gordon Gustar
Marc Jeitz
Graham Parks
Milan Tjioe