HANDYAID NEW FUNCTIONALITY FOR YOUR PDA

FOR PALM PDA AND COMPATIBLES

Version 1.7

User Guide

HandyAid Version 1.7 User Guide

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Introduction

H andyAid is an enhancement for the Palm PDA. The main enhancement focus on reducing battery usage and reduce data losses due to dead battery. The other major focus is to enhance the usability of your PDA.

Additional enhancements will be added based on demand.

> ## All screens in this manual are for illustration only and may differ from what you actually see on your Palm device.

WHAT'S IN VERSION 1.7

HandyAid version 1.7 requires PalmOS 5.x and above.

New in 1.7

- Button Plus. Expand your hard-button functionality by assigning extra applications to the existing settings. You can assign up to 20 applications/internal functions with the combination of the 4-main application buttons and the 5-Way Navigator buttons.

- Stay-On when network is connected (online).

- Stay-On battery drain protection.

- New Stay-On implementation to reduce overhead.

- Auto Hotsync when plug-in.

- Support hidden applications in "Display Saver Group", and "Switch-On tasks".

- Expand Display Saver Groups to 10 groups.

- Remove Display saver group timeout/display-off limitation.

- Support "Disable Auto-Off" in Display Saver Group.

- Enforce "Display-Off" state.

- No application switch during MMC card insert.

- Prevent accidental voice-key presses.

- Restore backlight/brightness state during soft reset.

- Color pop-window. User customizable.

- Fix problem in "Saver Group" behavior.

- Fix screen dim problems during Hotsync.

- Fix 5-Way launching Launcher with the select button while in HandyAid.

- Fix soft-reset key presses to bypass prompt.

- Fix Stay-On problem.

Main Features

- PalmOS provides a single auto-off timeout for all operations. HandyAid provides 5 additional auto-off timeout settings for some of the common operations (software-on, end of hot-sync, SD/MMC card operations and remove from cradle). The additional settings reduce the need to switch-off your PDA manually and reduce battery wastage when it is not attended to.

- Manage Software-on. There are times when your PDA switches on itself when you are not around. This can be due to Datebook alarm or other 3rd party software you configured to perform functions at specific time. For the built-in Datebook alarm and some of the 3rd party tools, the PDA will only switch-off after the auto-off time has expired. HandyAid allows you to configure a shorter auto-off time for this event. This event can also be started without the screen backlight, conserving your battery. If you happen to be around and you attend to this event, all you need is a tap on the screen or press one of the hard key to restore the full functionality of the PDA.

- Switch-On Guard. Accidental switch-on can lead to dead battery and loss of all data on your PDA. HandyAid provides complete customization on the button to use for switch-on. When wrong buttons are used to switch-on, the HandyAid solution reduces the screen flickering that is common in other software providing this functionality.

  Note: The advance display-off to reduce screen flickering requires specific hardware support, which may not be present in your PDA.

- Standard PalmOS "stay-on in cradle" has the following limitations:

  o "Stay-on in cradle" can only be enabled with the security auto-lock disabled.

  o If "Stay-on in cradle" is enabled and in switch-off mode, a DateBook alarm or similar event will cause it to stay on until you attend to it, shortening the display lifespan.

  HandyAid stay-On works with the security auto-lock enable. However the device will only be locked at the next switch-off and if the auto-lock is due. The HandyAid stay-on feature is only enabled when it is physically switch-on using one of the PDA's buttons. In short, the stay-on feature is only enabled when you want it.

- Display Saver. This feature helps to conserve your battery and extent your display lifespan. With the dimmer enabled, the screen will be dim when there is no activity. On the next level, either with or without dimmer enable, you can customize it to switch-off your display as well, but remain active. To reactivate your PDA, all you need is a single tap on the screen or press one of the hard key. You can now customize your PDA to power-on longer to suit your needs, reducing the need to constantly switch-on the device due to auto-off timeout.

  Application specific dimmer, display-off and auto-off timeouts can be configured. Support 10 groupings and up to 8 applications per group.

Note: The display-off functionality requires specific hardware feature, which may not be present in your PDA.

- Button-Plus. Expand the hard-button capabilities to launch up to 20 different applications and perform internal functions. The applications can be in in the main memory or external memory card.

  Note: PDA without the 5-Way navigation keys, can only assign up to 16 applications/functions.

- Switch-Off Tasks. With this feature, you can be sure your Private record is set back to "Mask" or "Hide" mode.

  With the beam receive ON, your PDA is constantly scanning for beam activity. HandyAid can ensure the beam receive is "switch off".

- Security enhancements. Able to lock and switch off your PDA when remove from the charging cradle. On soft reset you can specify to lock your PDA.

- Address digitizer problem. Auto calibrates the digitizer on switch-on or you can launch the digitizer on soft reset.

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UNREGISTERED VERSION

The unregistered version provides you with a way to evaluate and decide before purchasing. **NO REFUND** will be entertained after the purchase.

The Unregistered Version has the following limitations:
- There is a splash screen when you launch HandyAid for customization.
- 7 days trial period. During this trail period, the program functions as the registered version, except for the limitation as mentioned above.
- At the end of the trial period, the program will automatically disabled itself when you next power-on manually or there is user activity. You can extend the trial by another day, by enabling HandyAid manually.

REGISTRATION INFORMATION

R egistration will entitle you to unlimited free upgrade of future release. Release update is 1.x.x. Major version update may require an upgrade fee. Next version update will be 2.x, 3.x and so on.

To register please refer to REGISTER.TXT file.

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CONTACT INFORMATION

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Web Page:

http://www.klumpit.com or

http://home.pacific.net.sg/~kokmun/ or

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MINIMUM REQUIREMENT

H andyAid needs a minimum of PalmOS 5.x and above. This program should work on any Palm PDA or it's compatible such as HandSpring, and Sony with PalmOS 5.x and above. As the tool uses specific hardware features, some of the functionality may not work on your PDA.

The program requires a minimum of 65K of free memory on your PDA for installation.

INSTALLATION

I n the software package, there is a file called HANDYAIDUNREG.PRC. If you have not installed your Palm Desktop, please install the Palm Desktop software first before proceeding.

With Palm Desktop installed, use the following steps to install HandyAid into your Palm PDA:

1. If you have installed HandyAid on your PDA, please DISABLE it before continue with the installation.

2. Double click on the PRC file. This will launch the Palm program installer.

3. Select the Hot-sync-Id and select OK. You will see a list of programs that will be installed into your Palm PDA on your next Hotsync.

4. Perform the Hot-sync to complete the installation of HandyAid into your Palm PDA.

5. After installation, HandyAid will appear under the UNFILED category of your program launcher of your Palm PDA.


6. On first launch, there is a disclaimer splash screen, which you need to read and acknowledge. If you do not agree with the disclaimer, please do not continue to use the software.

7. The next step is to detect conflicting program that may interfere with HandyAid's functionality. If you have programs with dimmer, accidental power-on or functions similar to HandyAid, you need to disable them when you are using HandyAid. This is necessary, as those programs will interfere with the proper function of HandyAid.

   HandyAid will list known program that will interfere with it. This is however, not a complete test of program conflict.
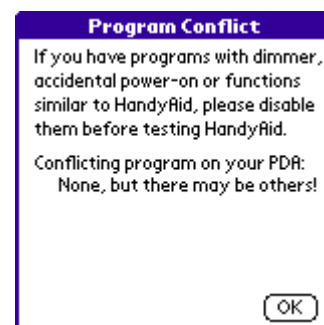
8. If you have not registered the tool, you will see the Unregistered Screen, as below.

   If you have registered, select "Registration" to enter your registration information. See the section "***Entering Registration Information***". Select OK if you want to continue the trial without registering.

9. When the tool is first launched, it is in Disable mode. The current mode is shown at the top left hand corner.
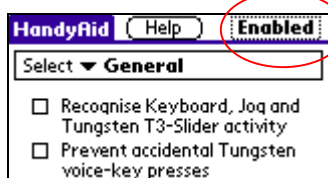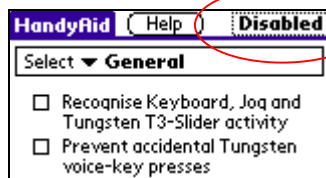
   To enable the tool, tap on the box to toggle the mode.

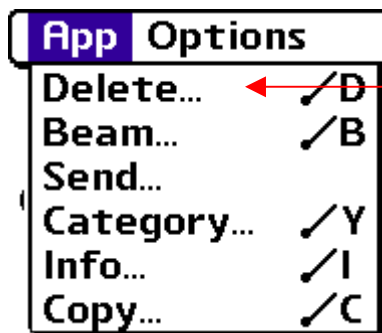10. Review each of the categories and customized it to your needs.

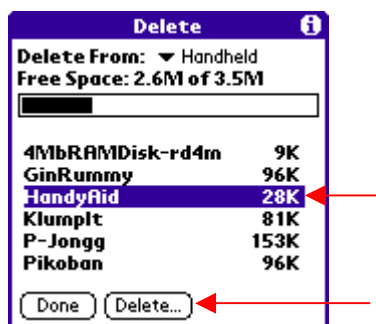To remove HandyAid from your PDA, do the following steps.

1. If HandyAid is enabled, please disable it before removal. Disable it by toggling the mode at top-left hand corner.
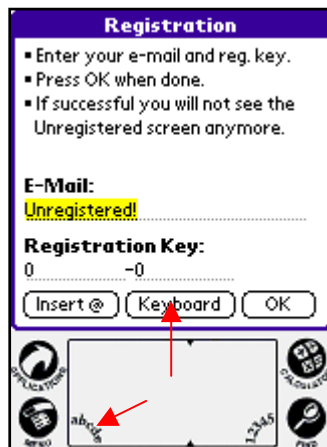
2. Start the Palm program launcher, by pressing the Launcher icon.

3. From the MENU, select "App-Delete".

4. Scroll till you see, HandyAid, select it and press "Delete" to complete the HandyAid removal.

Entering Registration Information

To complete your registration, just fill in the e-mail id and registration key. The e-mail id is case sensitive and must be entered as specified in the registration e-mail. The e-mail id will be the e-mail id you specified during registration.

If you have problem entering text or "@" character with Graffiti, you can invoke the keyboard, by pressing the left bottom corner of the Graffiti area or press the Keyboard button, as shown by the red arrow in the diagram.

When done, press OK. This will end the registration screen. If your registration is successful, you will not see the "Unregistered" screen during the tool startup.

An example of the registration information receives in the e-mail.


```
HandyAid Registration Information.

E-Mail: abcXYZ@handyaid.com

Registration Key: 1234567-890123
```

Notice the case sensitivity of the e-mail id.

ENABLE AND DISABLE HANDYAID

The HandyAid status is shown at the top left hand corner of the customization screen. Tap on the status to toggle the status. This is a global switch for all the enhancements. If you do not want to enable specific feature, you can disable them individually in their respective category customization.
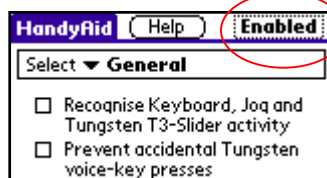
To customize individual category, select the category of interest by tapping on the triangle on the right of "Select".

T he general configuration consists of general settings.

Recognize Keyboard, Jog and TT3-Slider Activity: Check it to recognize keyboard, jog and Tungsten T3-Slider activity as hard key pressed. If you do not have any of these, enabling them has no purpose.
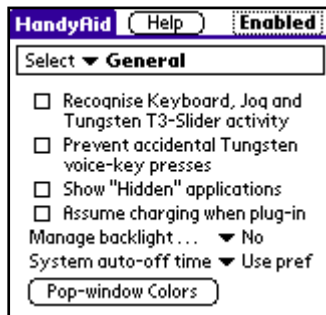
Prevent accidental Tungsten voice-key presses: When enabled, accidental single press of the voice-key will be ignored. To launch the voice-key apps, press and hold the voice-key.

Show "Hidden" applications: Enable this to select hidden application in Button Plus, Display Saver, and Launch App. Hidden applications are marked with the degree symbol at the end of the application. For example "Brightness °". Beware when launching hidden applications. Some are hidden for a reason and are not suitable to be launched directly.

Assume charging when plug-in: When enable, charging state is assumed when your PDA is plug-in. Useful when you use USB charging cable, that does slow charging and the PDA does not recognized it as in "charging state". If you use Stay-On when charging, enable Stay-On Battery Drain Monitoring to prevent accidental battery drain. There may be situation when the plug-out is not detected. This limitation is not a software error but a limitation within the current PalmOS. Use this option we caution.

Manage backlight: Select how HandyAid should manage the backlight of your PDA.

Option	Remarks
No	Do not manage the PDA backlight.
Auto	Manage the backlight. Restore the backlight status to the same state as when it is power-off. On some occasion, the backlight status may not be restored correctly. If this is the case, use one of the other "Force" option.
Force Off	Manage the backlight. The backlight will be switch off when the PDA is power-on.
Force ON	Manage the backlight. The backlight will be switch ON when the PDA is power-on.

The "Manage Backlight" affects the settings in "Power-On" and "Software Power-On" category. If you do use "Prevent Accidental Power-On" feature ("Power-On" category), the recommended setting for "Manage backlight" is either "Auto" or "Force On". This will reduce the screen flickering when the wrong button is used to power-on the PDA.

System Auto-Off Time: Change the global auto-off time of your PDA. This option provides greater flexibility in configuring the auto-off time. Together with other HandyAid enhancements, such as dimmer you can increase the auto-off time to your preference.

You can check the current auto-off time in the "Status and Stats." category.

Option	Remarks
Use pref.	Use the PDA preference setting.
[time]	Change the auto-off time to the selected time.

Pop-window Colors: Select this to customize the pop-window frame color and text color. The pop-window will only be in color if the PDA is in color mode. In non-color mode, the pop window will be black & white mode only.

BUTTON-PLUS CONFIGURATION

Button-plus allows you to assign up to 5 different applications or internal functions to launch for each of the main application buttons.
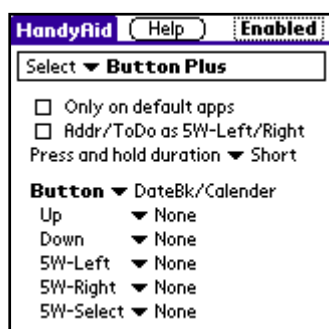
Only on default apps: Enable this if you play games that use the apps button. When set, the button plus is only available when the PDA assigned application for the button is running.

Addr/ToDo as 5Way-Left/Right: Map the Address and ToDo key press as 5-Way Left and Right key press during the ButtonPlus pop-up menu. This is useful for PDA without the 5Way Navigator keys.

Press and hold duration: Select the button held duration to launch button plus apps or pop-up menu.

Button... : Select the button plus apps to configure. Both apps in memory and memory card can be assigned. Internal functions are listed at the bottom of the list and enclosed with "[. . .]".
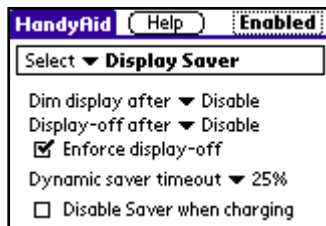
Note:

- *For PDA without the 5Way-Navigator keys, you can define up to 16 applications or internal functions only. The "Addr/ToDo as 5Way-Left/Right" option has to be enabled as well.*

- *If only a single application/function is defined, it will be launch directly without the pop-up menu.*

DISPLAY SAVER CONFIGURATION

Display Saver is useful when you need to have your PDA power-on longer but do not refer to it as often, such as during meeting. The dimmer will help conserve battery by switching the backlight off. To conserve even more, the display can be configured to switch-off but remain active. When the display is in switch-off mode, the LED will blink to indicate the PDA is still active.

To reactivate the screen, tap on the screen or press any of the hard keys. Pressing the Page-Up/Page-Down key is recommended if you want to use the hard key to reactivate.

HandyAid (Help) **Enabled**
Select ▼ **Display Saver**

Dim display after ▼ Disable
Display-off after ▼ Disable
☑ Enforce display-off
Dynamic saver timeout ▼ 25%
☐ Disable Saver when charging

Dim display after: Set the dimmer timeout value. When the time is reached without any activity, the PDA screen will be dimmed to conserve battery. Set to *NO* to disable this feature.

Display-off after: Set the display-off timeout value. When the time is reached without any activity, the PDA screen will be switch-off, but the PDA still remain active. Set to *NO* to disable this feature. When enable, the timeout value must be higher than the "Dim display" timeout value. This feature can be enabled without enabling the "Dimmer" functionality.

Enforce display-off: This will enforce the display-off status. This is to cater for application that wakes up periodically and update the display. If your display blinks, make sure your dim timeout is enabled.

Dynamic saver timeout: When enable, the Display Saver timeout value will be automatically adjust to fit the users. The timeout will be adjusted upward when the timeout is reached and the user immediately reactivates the screen. It will be adjusted downward when the user took a longer time to reactivates the screen. The timeout value however will never be lower than the set timeout value. Select % or fix time for adjustment.

Disable Saver when charging: When selected the Display Saver feature is disabled when charging. *If you do use the Stay-on feature as well, disabling the Display Saver when charging is not recommended, as this will leave your screen power on with backlighting. This will shorten the display lifespan in the long run.*

Note: The display-off functionality requires specific hardware support, which may not be present in your PDA.

DISPLAY SAVER GROUP

D isplay Saver Group allows you to configure different dimmer, display-off and auto-off timeouts for application. When the defined application is run, the timeouts value will be override. The timeouts will be restores when your exit from the application. Currently you can define up to 8 applications per group, and 10 groups can be defined.

For auto-off use DEF. to use the global setting. You can configure both programs in memory and in memory card.

Program residing in memory card, has the memory card icon prefix to the program name.

If you configure program residing in memory card and the memory card is removed, you will see "None" in those slot. To restore the selected program in memory card, do not change the setting. Exit HandyAid, reinsert the memory card and then restart HandyAid. The selected program residing in memory card will be displayed.

HOTSYNC AND CRADLE

H otSync and Card configuration allows you to customized timeout related to HotSync and SD/MMC card activities.
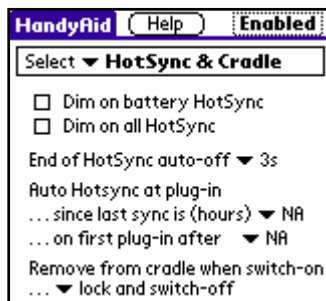
Dim on battery Hotsync: When enable, the screen will be dim during the Hot-Sync process and the PDA is not charging.

Dim on all Hot-Sync: When enable, the screen will be dim during the Hot-Sync process.

End of Hot-Sync auto-off time: Timeout value to switch-off your PDA at the end of the Hot-Sync process. Set to NONE to disable this feature.

Auto hotsync at plug-in

...since last sync is: Perform hotsync when plug-in if the last hotsync has passed the selected period. Select 0.0 to auto hotsync on every plug-in.

...on first plug-in after: Perform hotsync if PDA is plug-in for the first time after the selected time.

Remove from cradle when switch-on: Set auto-off time or auto lock when a power-on PDA is removed from charging cradle.

To enhance security, you can set this to "lock and switch off". When your PDA is switch ON and is removed from the cradle, it will automatically be lock and switch-off. *If your PDA is switch OFF, this setting has no effect. Security locking function is then based on your PDA security lock function.*

SD/MMC CARD CONFIGURATION

Card configuration allows you to customized timeout related to SD/MMC card activities.
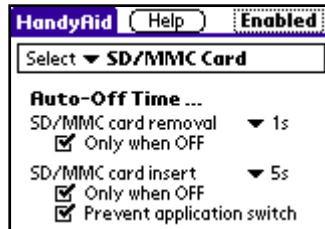
SD/MMC card Removal/Insert: Timeout value to switch off your PDA when the SD/MMC card is removed/inserted. Set to NONE to disable this feature. To have this timeout only when the PDA is in Power-Off mode, select the respective "**Only when OFF**".

Prevent application switch: When selected, the launcher will not be launched during card insert.

SOFT RESET

Soft Reset allows you to configure HandyAid action during soft reset. During soft-reset, HandyAid will prompt you for decision. The prompt requires user to tap the screen anywhere to indicate YES. Press any key to indicate NO. A 3 seconds timeout will indicate NO. All the settings here are effective during soft-reset even when HandyAid is not enable.

Enable HandyAid by default: When selected, HandyAId will enable automatically during soft-reset unless user indicates otherwise during soft-reset.

Option to launch Digitizer: Useful if you have digitizer problem. When enable, you will see option to launch digitizer during soft reset.

Activate Security Lock: At the end of the soft reset, your PDA will be lock. This is to address a weakness within the PDA security, where unauthorized user can access your lock PDA by performing a soft-reset.

Note: This is not a full-proof method of securing your PDA. There are other methods to access your lock PDA as well. But this reduces one option an unauthorized user can access your lock PDA.

SOFTWARE-ON (UNATTENDED POWER-ON) CONFIGURATION

S oftware-On configuration allows you to manage unattended switch-on by software. If you have alarm going off while you are away, the standard PDA feature will only switch-off the PDA after the set timeout value.

With this feature, you can set the PDA to switch-off earlier. In occasion, when you are around to handle it, a single tap on the screen or a press on one of the hard-keys is all that is needed to restore the PDA to it's normal state.

Dim software-on: Dim the screen when software-on is detected. This help in conserving battery when the PDA is power-on when you are not around.

Flash-LED on Software-On: Flash the LED once, when software-on is detected. This feature requires specific hardware support which may not available on your PDA.

Note: This feature is only active when your PDA is in power-off mode.

STAY-ON CONFIGURATION

S tay-On configuration controls PDA continuous power-on settings.
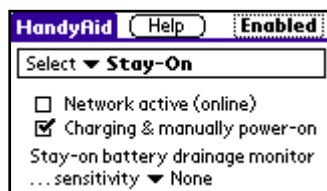
Network active (online): Enable stay-on when network is active.

Charging and manually power-on: Select to enable the HandyAid stay-on feature.

HandyAid stay-on works with the security auto-lock enable. However the device will only be lock when it is next power-off and the auto-lock is due. The HandyAid stay-on feature is only enabled when it is physically switch-on using one of the PDA's buttons and in charging mode. In short, the stay-on feature is only enabled when you want it.

Stay-On battery drainage monitor sensitivity: Enable battery drainage monitor to prevent battery drain situation when Stay-On is active. Recommended if you are charging using USB power only.

SWITCH-ON GUARD (ACCIDENTAL POWER-ON) CONFIGURATION

S witch-On Guard helps to prevent accidental power-on of your PDA. Accidental switch-on can leads to battery drain and a dead PDA.

HandyAid provides complete customization on the button to use for switch-on. When wrong buttons are used to switch-on, HandyAid solution reduces the screen flickering that is common in other software providing this functionality.
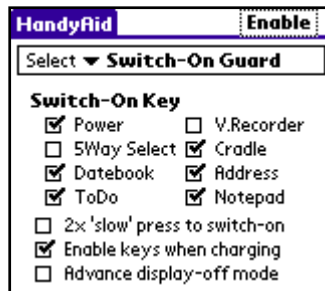
Switch-On Key: Select the keys to switch-on your PDA. When non-selected key is used, the PDA will immediately be switch-off.

2x 'slow' press to switch-on: When enable, you need to press the same valid "switch-on key" twice, to switch-on your PDA. The double press has to be done within 1 second. The best way to do this is "Press - Full Release – Press". Quick double press is not recognized. This setting is not applicable when you enable the "*Enable keys when charging*" and the PDA is in charging mode. The "*Cradle*" key is not bound by this setting as well.

Enable keys when charging: When enable, all hard keys can be used to switch-on your PDA when it is in charging mode.

Advance display-off mode: When enable, hardware specific feature is used to switch-off your PDA. If your PDA support this, this feature will reduce screen flickering when wrong key is used to switch-on your PDA.

Note:

1. *The "advance display-off" to reduce screen flickering requires specific hardware support, which may not be present in your PDA.*

2. *The "Manage Backlight" has to be enabled to reduce screen flickering.*

SWITCH-ON TASKS CONFIGURATION

Switch-On Tasks performs tasks when you switch-on your PDA.

Launch App: Select an application to launch on switch-on. You need to select the condition to launch the selected app. If both conditions are set, the application will be launch when any of the condition is met. Only program in main memory can be selected.

...after OFF for: Launch app if PDA has been switch-off for selected time period. Select 0.0 to launch app for every switch-on.

...on first ON after: Launch app if PDA is switch-on for the first time after the selected time.

Auto Digitize: Automatically recalibrate your digitizer when your PDA is switch-on manually. When you enable this option, digitizer calibration is done to capture its settings.

SWITCH-OFF TASKS CONFIGURATION

Switch-Off cleanup configuration allows you to configure function to be done your PDA is switching-off.
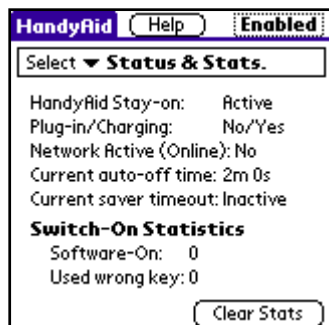
Private records: Mask/Hide your private record when your PDA is switching-off. Set to "Do nothing" to disable this feature.

Beam receives: Set to "Switch OFF" to disable your beam receives. Set to "Do nothing" to disable this feature.

S tatus and statistics provide a summary of some of the functionality and state of HandyAid.

Clear Stats: Press the button to clear the switch-on statistics.

For some of the reported information, you will see the following status:

Status	Remarks
Disable	The feature is disable.
Inactive	The feature is enable and is currently inactive. This can be due to certain condition that is not present at the moment for the feature to be active.
Active	The feature is enable and is currently active.

FREQUENTLY ASK QUESTIONS

1. *The timeout setting does not tally to what I actually experiencing?*

    Answer: The timeout are sets when the condition is detected. When the condition is detected may not tally to what you actually see on your PDA. Do give an allowance of +/- 2 seconds for all the timeout settings.

2. *Why is the Tungsten slider power-on a "software-on"?*

    Answer: Currently I have not found a way to detect the PDA is power on via the Tungsten slider. Palm has not released any information regarding the slider open/close operation. The Tungsten T3-Slider can now be detected if the option to detect it is enabled. The Tungsten T3-Slider detection is not foolproof, there will be occasion when the slider action is not detected.

3. *Is there a way to disable the "HandyAid is not enable …." pop-up warning?*

    Answer: NO. There is no setting you can change to disable this. This is done as it is because; chances are you will only see it once when you want to disable it and uninstall HandyAid. In normal operation, there is no reason to leave HandyAid "Disable" and the user launching the HandyAid configuration.

    If you have a valid reason, send me an e-mail.

Version History

Version 1.7 – 22nd March 2003

- Button Plus. Expand your hard-button functionality by assigning extra applications to the existing settings. You can assign up to 20 applications/internal functions with the combination of the 4-main application buttons and the 5-Way Navigator buttons.

- Stay-On when network is connected (online).

- Stay-On battery drain protection.

- New Stay-On implementation to reduce overhead.

- Auto Hotsync when plug-in.

- Support hidden applications in "Display Saver Group", and "Switch-On tasks".

- Expand Display Saver Groups to 10 groups.

- Remove Display saver group timeout/display-off limitation.

- Support "Disable Auto-Off" in Display Saver Group.

- Enforce "Display-Off" state.

- No application switch during MMC card insert.

- Prevent accidental voice-key presses.

- Restore backlight/brightness state during soft reset.

- Color pop-window. User customizable.

- Fix problem in "Saver Group" behavior.

- Fix screen dim problems during Hotsync.

- Fix 5-Way launching Launcher with the select button while in HandyAid.

- Fix soft-reset key presses to bypass prompt.

- Fix Stay-On problem.

Version 1.6 – Unreleased (changes consolidated to v1.7)

Version 1.5 - 20th November 2003

- Fix Tungsten T3 slider-on issue.

- Launch user specify application on switch-on based on set time condition. Useful if you want to launch specific application the first time you switch on your PDA in the morning.

- Application defined dimmer, display-off and auto-off timeouts. Useful if you need specific applications to have a longer or shorter timeout values. For example when reading DOC file, you will need longer dimmer and auto timeout.

- More refine user defined dynamic dimmer timeout. Can adjust using percentage or fix adjustment.

- Security enhancements. Able to lock and switch off your PDA when remove from the charging cradle. On soft reset you can specify to lock your PDA.

- Option to install by default on soft reset. During reset you will always have a way to override this setting.

- Auto calibrates the digitizer on switch-on or you can launch the digitizer on soft reset.

Version 1.3 – Internal test (changes consolidated to v1.5)

Version 1.2 – Limited release (changes consolidated to v1.5)

Version 1.1 – 7th November 2003

- Added an alternate method to dim the display. This is to address dimming problem on the Tungsten T3.

Version 1.0 – 4th November 2003