

BATTERY MANAGEMENT USER GUIDE



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Revision History

Changes to the original guide are listed below:

Change	Date	Description
-01 Rev A	03/2014	Initial release.
-01 Rev B	09//2014	Update supported devices list.

Contents

Copyrights..... 3
Motorola Solutions, Inc. End User License Agreement..... 5
Revision History..... 9

Chapter 1: Battery Management Application Installation..... 13
 Installing on a Windows Mobile Device..... 13
 Installing on a Windows CE Device..... 14
 Uninstalling on a Windows Mobile Device..... 15
 Uninstalling on a Windows CE Device..... 16

Chapter 2: Battery Management Usage..... 17
 Battery Health Indication — WinMobile..... 17
 Battery Health Indication – WinCE..... 18

Chapter 3: Configuration..... 21
 Battery Management Configuration - WinMobile..... 21
 Battery Management Configuration - WinCE..... 22

Chapter 1

Battery Management Application Installation

The Battery Health application supports the devices and operating systems listed below.

Table 1: Supported Devices

Device	Operating System
MC65	Windows Embedded handheld 6.5.3
MC67	Windows Embedded handheld 6.5.3
MC3100	Windows Embedded handheld 6.5.3
MC9190	Windows Embedded handheld 6.5.3
MC9200	Windows CE7 Windows Embedded handheld 6.5.3
MC9500	Windows Embedded handheld 6.5.3
WT4100	Windows CE7

Installing on a Windows Mobile Device

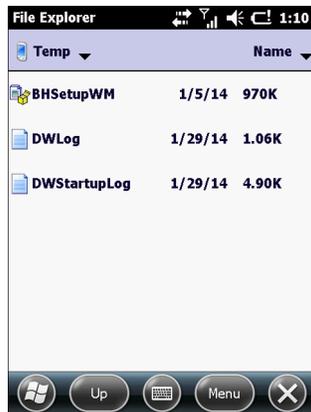
Prerequisites:

Download the installation package from the Motorola Solutions Support Central web site. Go to www.motorolasolutions.com/support.

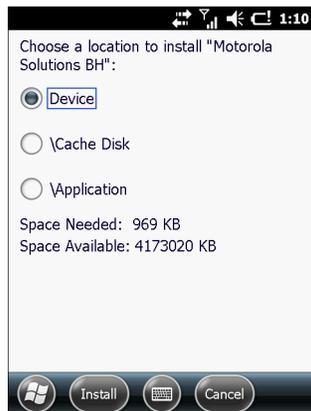
Save the package to a folder on the host computer and un-compress the zip file.

Procedure:

- 1 Connect the device to a host computer is a cradle or USB cable.
- 2 Locate the BHSetupWM.cab file on the host computer.
- 3 Use **ActiveSync** to copy the BHSetupWM.cab file to the /temp folder on the mobile computer.
- 4 On the mobile computer, touch **Start**.
- 5 Touch **File Explorer**.
- 6 Navigate to the /temp folder.
- 7 Locate the BHSetupWM.cab file.

Figure 1: File Explorer

- 8 Touch the file to launch the installation package.
- 9 Touch **OK**.

Figure 2: Install CAB File

- 10 Touch **Install**.
The package installs and then the device reboots.

Installing on a Windows CE Device

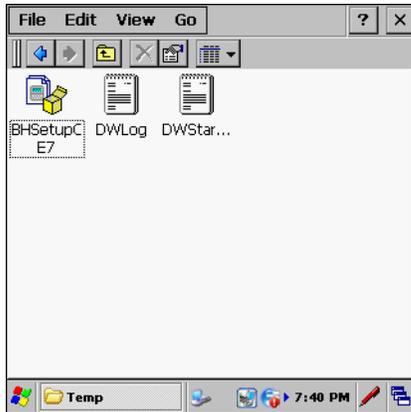
Prerequisites:

Download the installation package from the Motorola Solutions Support Central web site. Go to www.motorolasolutions.com/support.

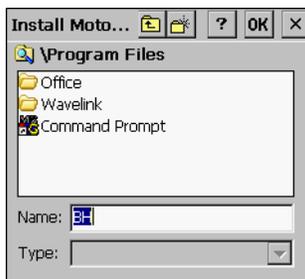
Save the package to a folder on the host computer and un-compress the zip file.

Procedure:

- 1 Connect the device to a host computer is a cradle or USB cable.
- 2 Locate the BHSetupCE7 .cab file on the host computer.
- 3 Use **ActiveSync** to copy the BHSetupCE7 .cab file to the /temp folder on the mobile computer.
- 4 On the mobile computer, touch **StartProgramsWindows Explorer**.
- 5 Open the /temp folder.
- 6 Locate the BHSetupCE7 .cab file.

Figure 3: File Explorer

- 7 Touch the file to launch the installation package.

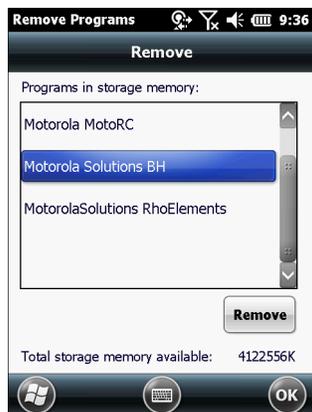
Figure 4: Install CAB File

- 8 Touch **OK**.
The package installs the application on the device.
- 9 Perform a cold boot. See the device's User Guide for information.

Uninstalling on a Windows Mobile Device

Procedure:

- 1 To **Start > Settings > System**.
- 2 Select **Remove Programs**.
- 3 Select **Motorola Solutions BH**.

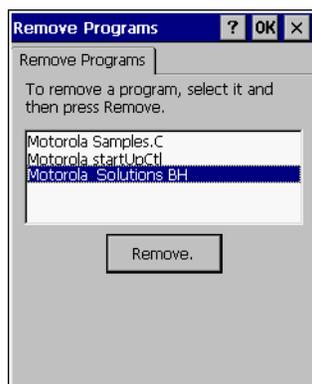
Figure 5: Remove Programs Window

- 4 Touch **Remove**.
- 5 Select **Yes** to remove the application.
The device removes the application and then reboots.

Uninstalling on a Windows CE Device

Procedure:

- 1 To **Start** > **Settings** > **Control Panel**.
- 2 Select **Remove Programs**.
- 3 Select **Motorola Solutions BH**.

Figure 6: Remove Programs Window

- 4 Touch **Remove**.
- 5 Select **Yes** to remove the application.
The device removes the application and then reboots.

Chapter 2

Battery Management Usage

The Battery Health service provides an estimate of battery health based on a number of different measurements, beyond just capacity.

Battery Health Indication — WinMobile

The **Battery Health** dialog box is accessible from the Status Bar. Touch the Status Bar and then the Battery icon.

Figure 7: Status Bar



Touch the Battery icon to view the **Battery Health** dialog box.

Figure 8: Battery Health Dialog Box



- **Battery Power** - Indicates the current battery power, represented as a percentage of the total battery capacity.
- **Battery Health** - Indicates the battery health using a five star-rating rating system based on a predefined battery usage count threshold value. If the battery falls below any of these values, it is assigned to a lower star-rating.
- **Cycle Count** - Displays the current battery usage count of the battery (configurable).

The background color also indicates the battery health.

Figure 9: Battery Background Color

- Green - Indicates that the battery is healthy.
- Yellow - Indicates that the battery is reaching the end of its useful life.
- Red - Indicates that the battery should be replaced.

The inside of the battery icon indicated the battery charge level. The white area indicates the current charge status of the battery used.

After a pre-defined time period, the dialog box disappears.

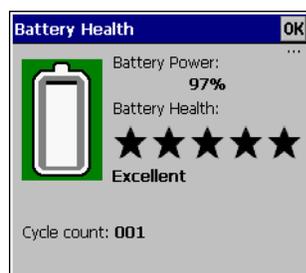
The Battery health dialog box can be set to appear after the device resumes from suspend mode or depending upon the health status. See [Battery Management Configuration - WinMobile on page 21](#).

Battery Health Indication – WinCE

The Battery Health icon appears in the Task Tray.

Figure 10: Task Tray Icon

Touch the icon to view the **Battery Health** dialog box.

Figure 11: Battery Health Dialog Box

- **Battery Power** - Indicates the current battery power, represented as a percentage of the total battery capacity.
- **Battery Health** - Indicates the battery health using a five star-rating system based on a predefined battery usage count threshold value. If the battery falls below any of these values, it is assigned to a lower star-rating.
- **Cycle Count** - Displays the current battery usage count of the battery (configurable).

The background color also indicates the battery health.

Figure 12: Battery Background Color



- Green - Indicates that the battery is healthy.
- Yellow - Indicates that the battery is reaching the end of its useful life.
- Red - Indicates that the battery should be replaced.

The inside of the battery indicates the battery level. The white area indicates the charge level.

After a pre-defined time period, the dialog box disappears.

The Battery health dialog box can be set to appear after the device resumes from suspend mode or depending upon the health status. See [Battery Management Configuration - WinCE on page 22](#).

Chapter 3

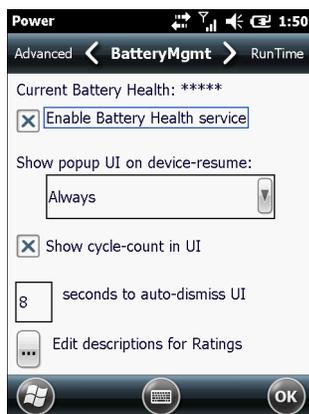
Configuration

Configure the Battery Management Software to using the Battery management tab in the Power application.

Battery Management Configuration - WinMobile

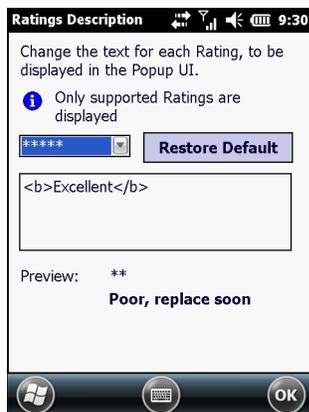
The Battery Health dialog box is configurable using the **BatteryMgmt** tab in the **Power** settings applet. Touch **Start** > **Settings** > **Power** to open the **Power** applet.

Figure 13: BatteryMgmt Tab



- **Enable Battery Health** - Check to enable the Battery health feature.
- **Show popup UI on device-resume**
 - **Always** - The **Battery Health** dialog box will display every time the device resumes from suspend.
 - **Once for each Rating decrease** - The **Battery Health** dialog box will display every time the Rating decrease to the next lower value.
 - **Always for **** and lower** - The **Battery Health** dialog box will display when the Rating is four * and lower every time the device resumes from suspend.
 - **Always for *** and lower** - The **Battery Health** dialog box will display when the Rating is three * and lower every time the device resumes from suspend.
 - **Always for ** and lower** - The **Battery Health** dialog box will display when the Rating is two * and lower every time the device resumes from suspend.
 - **Always for *-star and lower** - The **Battery Health** dialog box will display when the Rating is one * and lower every time the device resumes from suspend.
- **Show cycle-count in UI** - Check to display the battery usage count in the Battery Health dialog box.
- **Seconds to auto-dismiss UI** - Set the number of seconds after displaying the **Battery Health** dialog box that the dialog box disappears.
- **Edit descriptions for Rating** - Select button to edit the text that appears for each rating.

The background color also indicates the battery health.

Figure 14: Edit Rating

Note: Any changes made to the Battery Health software takes effect after the next device-resume.

Battery Management Configuration - WinCE

The Battery Health dialog box is configurable using the **BatteryMgmt** tab in the **Power** settings applet. Touch **Start > Settings > Control Panel > Power** to open the **Power settings** applet.

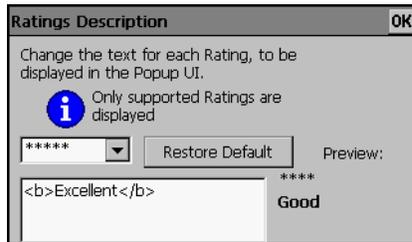
Figure 15: BatteryMgmt Tab

- **Enable Battery Health** - Check to enable the Battery health feature.
- **Add health colour to the Taskbar Battery tray icon** – Adds or removes the health indicator (green, yellow, red) from the icon on the taskbar.
- **Show popup UI on device-resume**
 - **Always** - The **Battery Health** dialog box will display every time the device resumes from suspend.
 - **Once for each Rating decrease** - The **Battery Health** dialog box will display every time the Rating decrease to the next lower value.
 - **Always for **** and lower** - The **Battery Health** dialog box will display when the Rating is four * and lower every time the device resumes from suspend.
 - **Always for *** and lower** - The **Battery Health** dialog box will display when the Rating is three * and lower every time the device resumes from suspend.
 - **Always for ** and lower** - The **Battery Health** dialog box will display when the Rating is two * and lower every time the device resumes from suspend.

- **Always for *-star and lower** - The **Battery Health** dialog box will display when the Rating is one * and lower every time the device resumes from suspend.
- **Show cycle-count in UI** - Check to display the battery usage count in the Battery Health dialog box.
- **Seconds to auto-dismiss UI** - Set the number of seconds after displaying the **Battery Health** dialog box that the dialog box disappears.
- **Edit descriptions for Rating** - Select button to edit the text that appears for each rating.

The background color also indicates the battery health.

Figure 16: Edit Rating



Touch the drop-down box to select the rating level. Enter the new text in the text box which the HTML bold code. Touch OK to return to the previous screen.



Note: Any changes made to the Battery Health software takes effect after the next device-resume.

