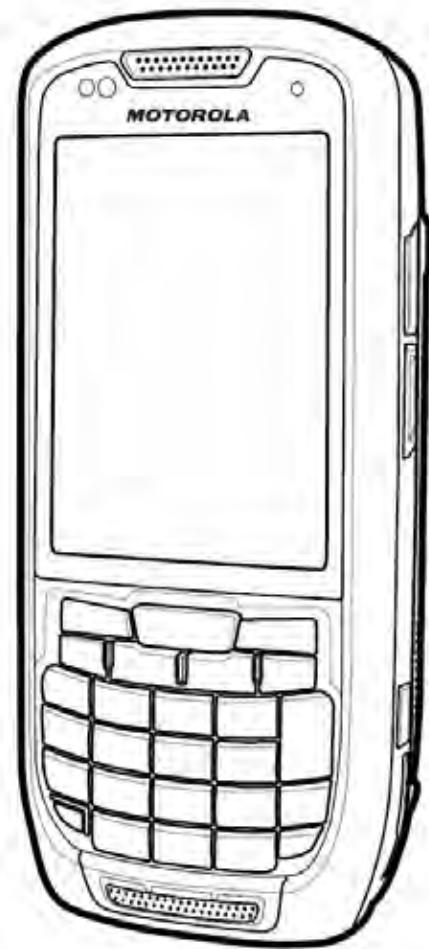




MC45 USER GUIDE



MC45
User Guide

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Rev. 1

August 2012

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Revision History

Changes to the original manual are listed below:

Change	Date	Description
-01 Rev. 1	08/2012	Draft.

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About This Guide

Introduction

This guide provides information about using the MC45 and accessories.



NOTE Screens and windows pictured in this guide are samples and can differ from actual screens.

Documentation Set

The documentation set for the MC45 provides information for specific user needs, and includes:

- **MC45 Quick Start Guide** - describes how to get the MC45 up and running.
- **MC45 User Guide** - describes how to use the MC45.
- **MC45 Integrator Guide** - describes how to set up the MC45 and accessories.
- **MC45 Regulatory Guide** - provides all regulatory, service and EULA information for the MC45.
- **Enterprise Mobility Developer Kit (EMDK) Help File** - provides API information for writing applications.

Configurations

This guide covers the following configurations:

Configuration	Radios	Display	Memory	Data Capture	Operating System	Keypads
MC4587	WWAN: GSM/HSDPA	3.2" QVGA16 Bit Color	256 MB RAM/ 1 GB Flash	Camera	Microsoft Windows Embedded Handheld 6.5.3, Professional Edition	Numeric
MC4597	WLAN: 802.11a/b/g WWAN: GSM/HSDPA	3.2" QVGA16 Bit Color	256 MB RAM/ 1 GB Flash	1-D laser scanner or camera	Microsoft Windows Embedded Handheld 6.5.3, Professional Edition	Numeric

Software Versions

This guide covers various software configurations and references are made to operating system or software versions for:

- Adaptation Kit Update (AKU) version
- OEM version
- Phone version
- Fusion version

AKU Version

To determine the Adaptation Kit Update (AKU) version:

Tap **Start > Settings > System** folder > **About** icon > **Version** tab.

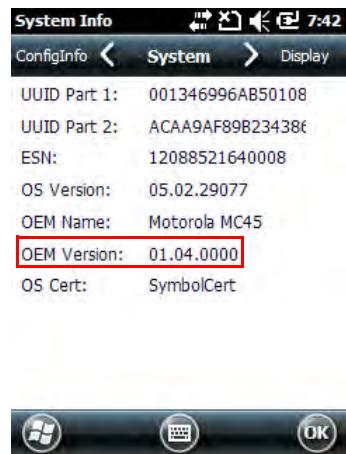


The second line lists the operating system version and the build number. The last part of the build number represents the AKU number. For example, *Build 29077.5.3.12.10* indicates that the device is running AKU version *5.3.12.10*.

OEM Version

To determine the OEM software version:

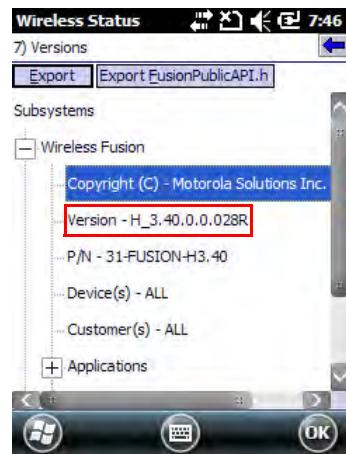
Tap **Start > Settings > System** folder > **System Info** icon > **System** tab.



Fusion Software

To determine the Fusion software version:

Tap **Start > Wireless Companion icon > Wireless Status icon > Versions.**



Phone Software

To determine the Phone software version:

Tap **Start > Phone > Phone Menu > Phone information.**



Chapter Descriptions

Topics covered in this guide are as follows:

- [*Chapter 1, Getting Started*](#) provides information on getting the MC45 up and running for the first time.
- [*Chapter 2, Using the MC45*](#) provides basic instructions for using the MC45, including powering on and resetting the MC45, and entering and capturing data.
- [*Chapter 3, Data Capture*](#) provides information for using the MC45 to capture data using the laser scanner or camera.
- [*Chapter 4, Using the Phone*](#) provides basic instructions for using the MC45 phone.
- [*Chapter 5, Using WLAN*](#) explains the WLAN functionality on the MC45.
- [*Chapter 6, Using GPS Navigation*](#) provides information about GPS navigation with the MC45.
- [*Chapter 7, Using Bluetooth*](#) explains Bluetooth functionality on the MC45.
- [*Chapter 8, Accessories*](#) describes the available accessories and how to use them with the MC45.
- [*Chapter 9, Maintenance & Troubleshooting*](#) includes instructions on cleaning and storing the MC45, and provides troubleshooting solutions for potential problems during MC45 operation.
- [*Appendix A, Technical Specifications*](#) provides the technical specifications for the MC45.
- [*Appendix B, Keypads*](#) provides keypad layouts and operation.

Notational Conventions

The following conventions are used in this document:

- “Mobile Computer” refers to the Motorola MC45 series of handheld computers.
- *Italics* are used to highlight the following:
 - Chapters and sections in this and related documents
 - Icons on a screen.
- **Bold** text is used to highlight the following:
 - Dialog box, window, and screen names
 - Drop-down list and list box names
 - Check box and radio button names
 - Key names on a keypad
 - Button names on a screen.
- Bullets (•) indicate:
 - Action items
 - Lists of alternatives
 - Lists of required steps that are not necessarily sequential
- Sequential lists (e.g., those that describe step-by-step procedures) appear as numbered lists.

Related Documents

- *MC45 Quick Start Guide*, p/n 72-164157-xx.
- *MC45 Regulatory Guide*, p/n 72-164158-xx.
- *MC45 Integrator Guide*, p/n 72E-164160-xx.
- *Enterprise Mobility Developer Kits (EMDKs)*, available at: <http://supportcentral.motorola.com>.
- Latest ActiveSync software, available at: <http://www.microsoft.com>.

For the latest version of this guide and all guides, go to: <http://supportcentral.motorola.com>.

Service Information

If you have a problem with your equipment, contact Motorola Solutions Global Customer Support for your region. Contact information is available at: <http://www.motorolasolutions.com/support>.

When contacting Motorola Solutions Global Customer Support, please have the following information available:

- Serial number of the unit
- Model number or product name
- Software type and version number

Motorola responds to calls by email, telephone or fax within the time limits set forth in support agreements.

If your problem cannot be solved by Motorola Solutions Global Customer Support, you may need to return your equipment for servicing and will be given specific directions. Motorola is not responsible for any damages incurred during shipment if the approved shipping container is not used. Shipping the units improperly can possibly void the warranty.

If you purchased your Motorola business product from a Motorola business partner, contact that business partner for support.

Chapter 1 Getting Started

Introduction

This chapter lists the parts for the MC45 and explains how to install and charge the batteries, replace the strap, and power on the MC45 for the first time.

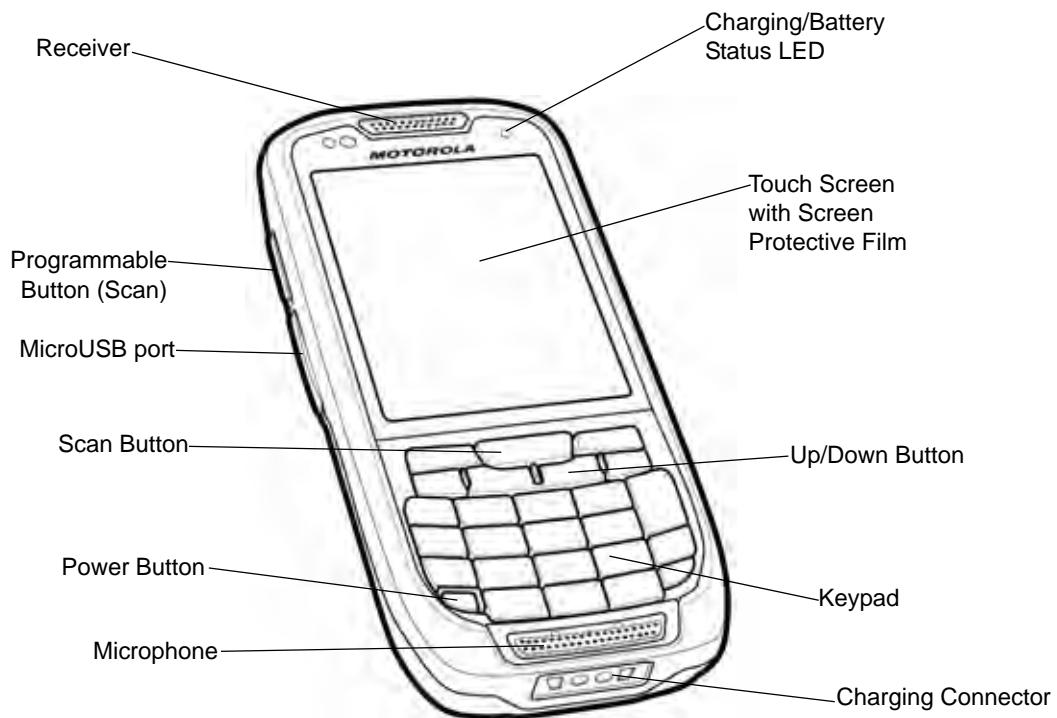


Figure 1-1 MC45 Front View

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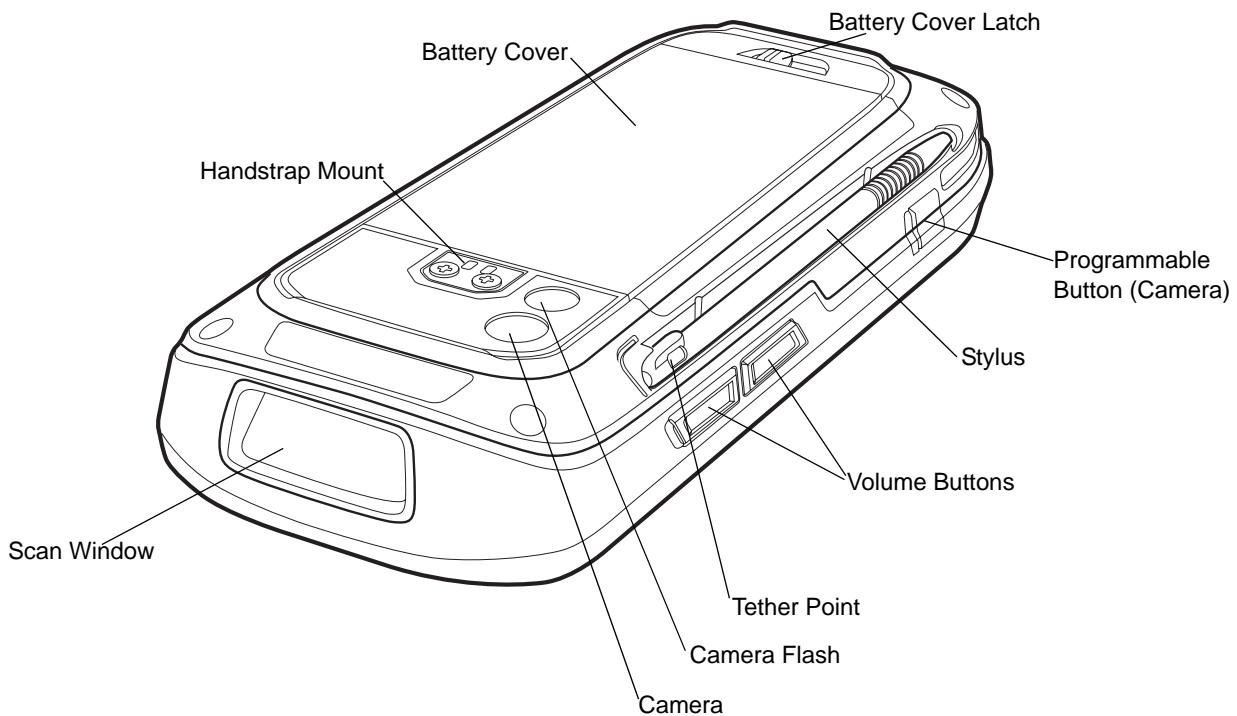


Figure 1-2 MC45 Rear View

Unpacking

Carefully remove all protective material from the MC45 and save the shipping container for later storage and shipping.

Verify that you received the following:

- MC45
- Lithium-ion battery
- Battery cover
- Tethered stylus
- Regulatory Guide
- Quick Start Guide.

Inspect the equipment for damage. If any equipment is missing or damaged, contact the Motorola Solutions Global Customer Support center immediately. See [page xvi](#) for contact information.

Getting Started

To start using the MC45 for the first time:

- Install microSD card (optional)
- Install the SIM card

- Install the battery.
- Charge the MC45
- Power on the MC45
- Configure the MC45.

Installing the Micro Secure Digital (microSD) Card

The microSD card slot provides secondary non-volatile storage. The slot is located under the battery (see [Figure 1-3](#)). Refer to the documentation provided with the card for more information, and follow the manufacturer's recommendations for use.



CAUTION Follow proper ESD precautions to avoid damaging the microSD card. Proper ESD precautions include, but are not limited to, working on an ESD mat and ensuring that the operator is properly grounded.

To install the microSD card:

1. Slide the SIM card holder to the right to unlock.
2. Lift the SIM card holder.

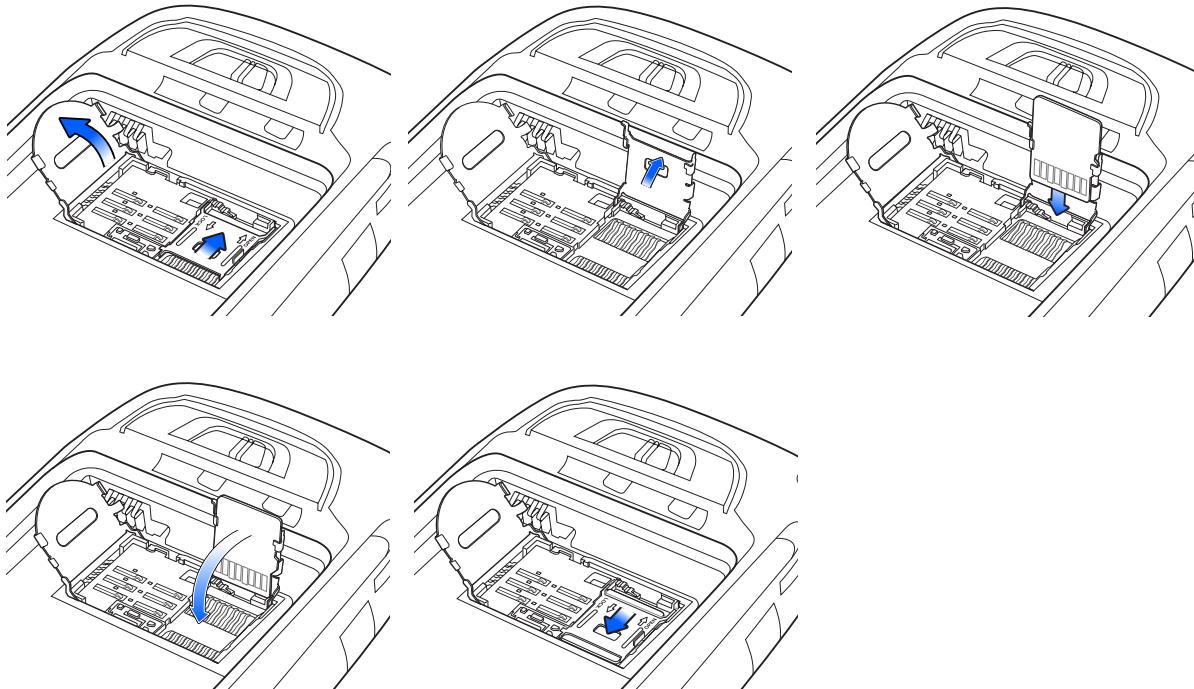


Figure 1-3 *microSD Card Installation*

3. Slide the microSD card holder down to unlock.
4. Lift up the microSD card holder.
5. Insert the card with the card contacts facing down and lower the microSD card holder.
6. Slide the microSD card holder up to lock.
7. Lower the SIM card holder.

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8. Slide the SIM card holder to the left to lock.

To remove the microSD card:

1. Slide the microSD card holder down to unlock.
2. Lift the microSD card holder.

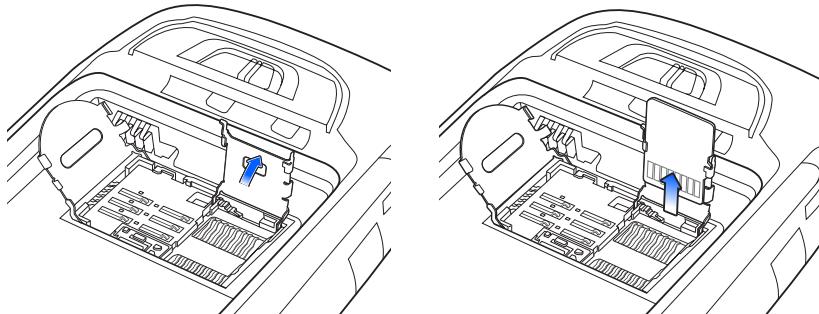


Figure 1-4 Card Removal

3. Remove the card from the card holder.
4. Lower the microSD card holder.
5. Slide the microSD card holder up to lock.

Installing the SIM Card

GSM phone service requires a Subscriber Identification Module (SIM) card, or smart card. Obtain this card from your service provider. The card fits into the MC45 and can contain the following information:

- Mobile phone service provider account details.
- Information regarding service access and preferences.
- Contact information, which can be moved to **Contacts** on the MC45.
- Any additional services to which you have subscribed.



NOTE For more information about SIM cards, refer to the service provider's documentation.

To install the SIM card:

1. Slide the SIM card holder to the right to unlock.
2. Lift the SIM card holder.

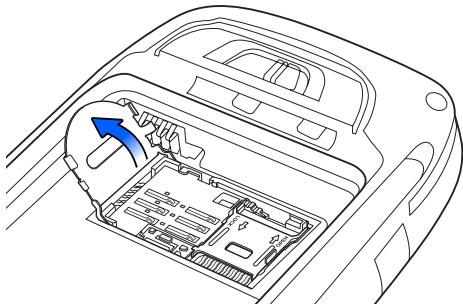


Figure 1-5 Lifting the SIM Cover

3. Insert the SIM card, as shown in [Figure 1-6](#), with the cut edge of the card facing out and the contacts facing down.

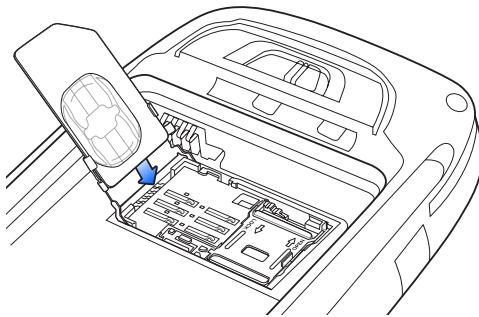


Figure 1-6 Inserting the SIM Card

4. Lower the SIM card holder and slide it to the left to lock.
5. Install the battery. See *Installing the Battery* on page 1-5 for more information.
6. After completing initial MC45 setup or after replacing a SIM card:
 - a. Press the red **Power** button.
 - b. Ensure **Phone** is on.
 - c. Make a call to verify cellular connection.



NOTE For detailed information about WWAN activation and settings, refer to the *MC45 Integrator Guide*.

Installing the Battery



NOTE When installing the battery for the first time out of the box, the back cover and battery are not installed.

To install the battery:

1. Insert the battery, bottom first, into the battery compartment in the back of the MC45.



NOTE Position the battery correctly, with the battery charging contacts on top of the charging contacts in the battery compartment.

2. Press the battery down into the battery compartment.

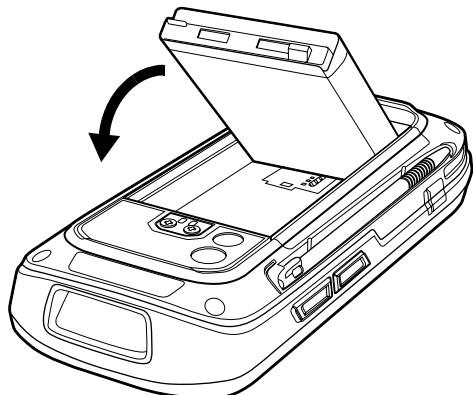


Figure 1-7 Inserting the Battery

3. With the battery cover latch open, insert the cover, top first, then press down on the bottom of the cover.
4. Slide the battery cover latch to the right into the lock position.
5. Power up the MC45 by pressing the red **Power** button.

Charging the Battery



CAUTION Ensure that you follow the guidelines for battery safety described in *Battery Safety Guidelines* on page 9-2.

Charging the Battery

Before using the MC45 for the first time, charge the main battery until the green Charging/Battery Status LED remains lit (see [Table 1-1 on page 1-7](#) for charge status indications). To charge the MC45, use the microUSB cable or a cradle with the appropriate power supply. For information about the accessories available for the MC45, see [Chapter 8, Accessories](#).

To charge the battery, use either a USB Rapid Charge Cable or a cradle. For USB Rapid Charge Cable and cradle setup and charging procedures refer to the *MC45 Integrator Guide*.

- Single Slot Charge Cradle
- Multi Slot Universal Charge Only Cradle
- Vehicle Charge Cradle.

To charge the battery:

1. Connect the charging accessory to the appropriate power source.
2. Insert the MC45 into a cradle or attach to the microUSB and power supply. The MC45 begins charging. The Charging/Battery Status LED blinks green while charging, then turns solid green when fully charged. See [Table 1-1](#) for charging indications.
3. The 3080 mAh battery charges in less than six hours.

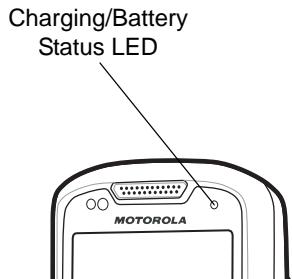


Figure 1-8 LED Indicators

Table 1-1 LED Charge Indications

Charging/Battery Status LED	Indication
Off	MC45 is not charging. MC45 is not inserted correctly in the cradle or connected to a power source. Cradle is not powered.
Slow Blinking Green (1 blink every 2 seconds)	MC45 is charging.
Solid Green	Charging complete.
Fast Blinking Red (2 blinks / second)	Charging error, e.g.: <ul style="list-style-type: none"> • Temperature is too low or too high. • Charging has gone on too long without completion (typically eight hours).

Charging Spare Batteries

See [Chapter 8, Accessories](#) for information on using accessories to charge spare batteries.

Charging Temperature

Charge batteries in temperatures from 0°C to 40°C (32°F to 104°F). Charging is intelligently controlled by the MC45.

To accomplish this, for small periods of time, the MC45 or accessory alternately enables and disables battery charging to keep the battery at acceptable temperatures. The MC45 or accessory indicates when charging is disabled due to abnormal temperatures via its LED. See [Table 1-1](#).

Powering On the MC45

Press the **Power** button to turn on the MC45. If the MC45 does not power on perform a reset. See [Resetting the MC45 on page 2-17](#).

When turning the MC45 on for the first time, the splash screen displays for about a minute as the MC45 initializes its flash file system, then the calibration window appears. Note that these windows also appear reset.

Calibrating the Screen

✓ **NOTE** The Calibration screen can be accessed by pressing **Blue key - BKSP** key or tapping **Start > Settings > System > Screen > General > Align Screen** button.

To calibrate the screen so the cursor on the touch screen aligns with the tip of the stylus:

1. Remove the stylus from its holder on the back of the MC45.
2. Tap the screen to begin calibration.
3. Carefully press and briefly hold the tip of stylus on the center of each target that appears on the screen.
4. Repeat as the target moves around the screen.

Checking Battery Status

To check the charge status of the main battery or backup battery in the MC45, tap **Start > Settings > Power** icon to display the **Power** window.

Replacing the Battery

To replace the battery:

1. Press the red **Power** button to wake the device.
2. Hold down the red **Power** button for 3 seconds and release. A screen appears. Tap the **Power Off** to turn off the MC45.
3. Slide the battery cover latch to the left to unlock.

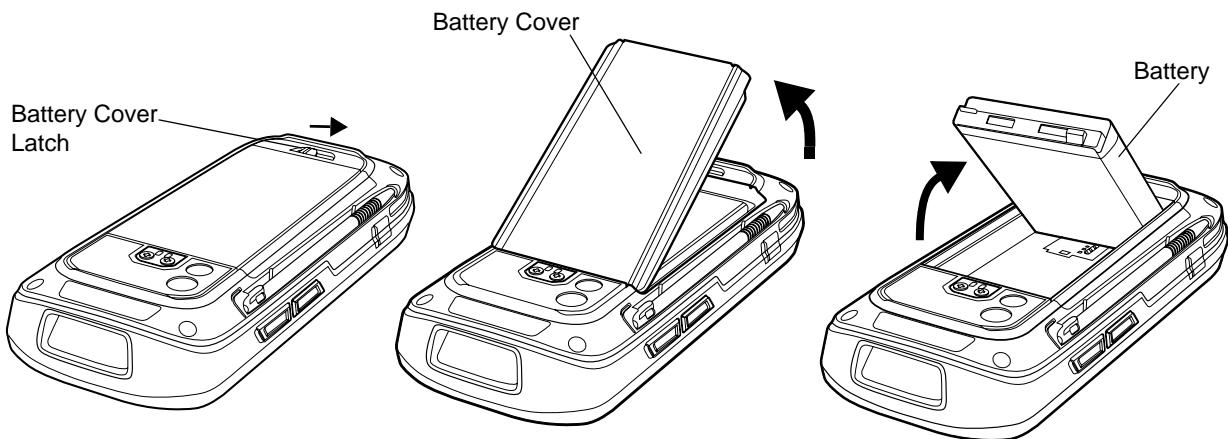


Figure 1-9 Replacing the Battery

4. Lift the bottom of the battery cover and remove.
5. Lift the battery, top first, out of the well.



CAUTION Do not attempt to remove the battery using a screwdriver or sharp instrument.

6. Insert the replacement battery, bottom first, into the battery compartment in the back of the MC45.
✓ **NOTE** Position the battery correctly, with the battery charging contacts on top of the charging contacts in the battery compartment.
7. With the battery cover latch open, insert the cover, top first, then press down on the bottom of the cover.
8. Slide the battery cover latch to the right to lock.
9. Press the red **Power** button to power on the MC45.

First-time Network Activation

GSM/UMTS Activation

Network Activation

To activate on a GSM/UMTS network:

1. If an active SIM card was installed in the MC45, the MC45 performs the activation process.
2. The **Phone Network - GSM/UMTS Setup** dialog box displays.
3. Tap **Yes** and then **OK**. For some carriers, the MC45 resets.
4. If during start-up, no update connection settings message appears, tap **Start > Settings > Connections > Phone Network Setup** and tap **Update Connection Settings** button.
5. If the network is unsupported, a message appears with links for manually setting the data connection and MMS settings.

For detailed information for configuring the phone and activating on a different network, refer to the *MC45 Integrator Guide*.

Battery Management

Observe the following battery saving tips:

- ✓ **NOTE** The MC45 factory default settings for the WLAN radio is set to OFF.
- Leave the MC45 connected to AC power at all times when not in use.
 - Set the MC45 to turn off after a short period of non-use.
 - Set the backlight to turn off after a short period of non-use.
 - Turn off all wireless activities when not in use.
 - Power off the MC45 when charging to charge at a faster rate.

Changing the Power Settings

To set the MC45 to turn off after a short period of non-use:

1. Tap **Start > Settings > Power icon > Advanced tab.**
2. Select the **On battery power: Turn off screen if not used for** check box and select a value from the drop-down list.
3. Select **ok.**

Changing the Backlight & Keylight Settings

To change the backlight settings in order to conserve more battery power:

1. Tap **Start > Settings > System tab > Backlight & Keylight icon > Battery Power tab.**
2. Select the **Disable backlight if device is not used for** check box and select a value from the drop-down list.
3. Select the **Brightness** tab.
4. Tap the **Disable backlight** check box to turn off the display backlight, or use the slider to set a low value for the backlight.
5. Select **ok.**

Turning Off the Radios

Windows Embedded Handheld 6.5 devices include **Wireless Manager**, which provides a simple method of enabling, disabling, and configuring all the device's wireless capabilities in one place.

To open **Wireless Manager**, tap **Status Bar > Connectivity icon > Wireless Manager** on the **Today** screen.



Figure 1-10 Tapping the Connectivity Icon

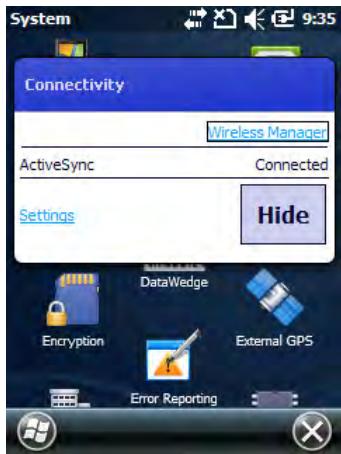


Figure 1-11 Opening Wireless Manager

Select **Wireless Manager**.



Figure 1-12 Wireless Manager Window



NOTE Wireless connection options vary depending upon configurations.

To enable or disable a wireless connection, tap the specific button.

To enable or disable all wireless connections, tap the **All** button.

To configure settings for a connection, tap **Menu**.

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Figure 1-13 Wireless Manager Menu

Chapter 2 Using the MC45

Introduction

✓ **NOTE** The WLAN feature is only applicable for the MC4597.

This chapter explains the buttons, status icons, and controls on the MC45, and provides basic instructions for using the MC45, including powering on and resetting the MC45, and entering and capturing data.

The MC45 factory default radio states are:

- WLAN - OFF
- Bluetooth - OFF
- Phone - ON.

Home Screen

The Home contains the Status Bar at the top of the screen, the Today screen in the center and the Soft Keys at the bottom of the screen.

Each of these are described below.

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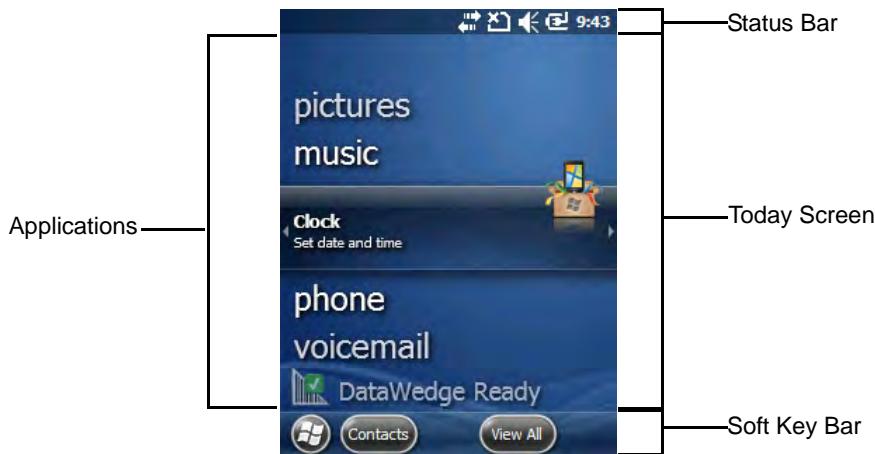


Figure 2-1 Home Screen

Status Bar

The Status Bar at the top of the screen can contain the status icons listed in [Table 2-1](#).



Table 2-1 Status Icons

Icon	Description
Notifications	
	Notification that one or more instant messages were received.
	Notification that one or more e-mail/text messages were received.
	Notification that one or more voice messages were received.
	Speakerphone is on.
	There are more notification icons than can be displayed. Tap to display remaining icons.
	Indicates a reminder of an upcoming calendar event.
	One or more Email messages were received.
	Receiving MMS message.
	Sending MMS message.
	MMS message sent successfully.

Table 2-1 Status Icons (Continued)

Icon	Description
	MMS message received sucessfully.
	Bluetooth is on.
	TTY Headset enabled.
	TTY HCO enabled.
	TTY VCO enabled.
	Microsoft customer feedback alert.
Connectivity	
	Connection is active.
	Connection is not active.
	Synchronization is occurring.
	WLAN available.
	WLAN in use.
	HSDPA available.
	3G available.
	GPRS available.
	EGPRS available.
	Call missed.
WAN	
	Dialing while no SIM card is installed.
	Voice call in progress.
	Calls are forwarded.
	Call on hold.
	Antenna/signal icon: wireless on/good signal.
	Antenna/signal icon: wireless off.
	Antenna/signal icon: no service or searching.
	HSDPA connecting.
	HSDPA in use.
	3G connecting.
	3G in use.
	GPRS connecting.
	GPRS in use.

Table 2-1 Status Icons (Continued)

Icon	Description
	EGPRS connecting.
	EGPRS in use.
	Roaming.
	SIM Card not installed.
Audio	
	All sounds are on.
	All sounds are off.
	Vibrate is on.
Battery	
	Battery is charging.
	Battery has a full charge.
	Battery has a high charge.
	Battery has a medium charge.
	Battery has a low charge.
	Battery has a very low charge.

Icon Bar

Tap the Status Bar to display the icon bar. Tap an icon to get additional notification or status information.

**Figure 2-2** Icon Bar

Table 2-2 Bar Icons

Icon	Name	Description
	Magnify	Enlarges the screen.
	Bluetooth	Displays the Bluetooth dialog box.
	WLAN	Displays the Network Detection dialog box.
	Voicemail	Dials Voicemail.
	Notifications	Indicates that notifications are available.
	Headset	Indicates that a wireless stereo headset is connected to the MC45.
	Connectivity	Displays the Connectivity dialog box.
	Phone Data	Displays the Phone dialog box.
	Volume	Displays the Volume dialog box.
	Power	Displays the Power window.
	Clock & Alarms	Opens the Clock & Alarms window.

Today Screen

The Today screen is scrollable and contains a list of applications and an Information Status bar. The Information Status bar highlights the application that is under it and provides additional information.

Touch and hold the screen with your finger and move the Today screen up and down. As the application names move under the Information Status bar, information relevant to that application appears in the bar.



Figure 2-3 Moving Today Screen

You can also touch and hold the Information Status bar and move it up and down over an application name. Remove your finger and the Information Status bar and application name center in the screen.

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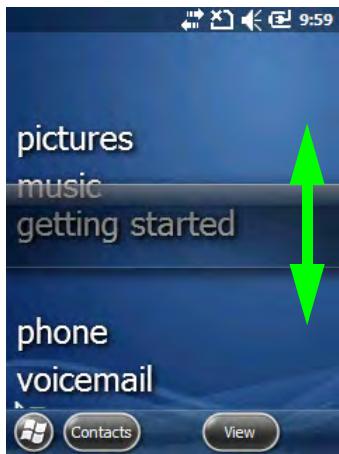


Figure 2-4 Moving Information Status Bar



Figure 2-5 Information Bar Example

To customize the **Today** screen, tap **Start > Settings > Today** icon. Use the **Appearance** tab to customize the background and the **Items** tab to change the display format.

Classic Today Screen

The user can change the Today screen to the classic layout that is used in Windows Mobile 6.5.3.

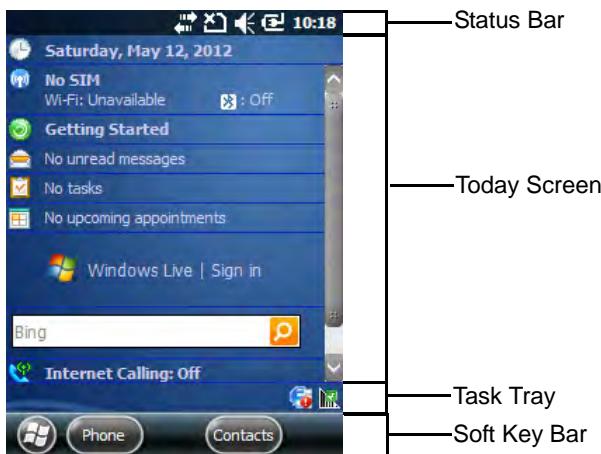


Figure 2-6 Classic Today Screen

To change to the classic view tap **Start > Settings > Home icon > Items tab.**

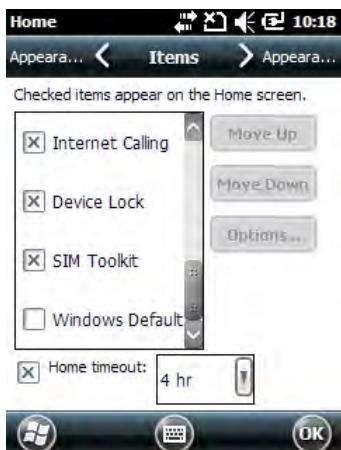


Figure 2-7 Today Screen Settings

Deselect the **Windows Default** checkbox and select any of the other checkboxes.

Tap **OK**.

✓ **NOTE** The task bar is only visible in the classic view.

The task bar at the bottom of the screen can contain the task tray icons listed in *Table 2-3*.

Table 2-3 Task Tray Icons

Icon	Name	Description
	Wireless connection status	Indicates WLAN signal strength.
	ActiveSync	Active serial connection between the MC45 and the host computer.
	DataWedge	Provides access to the DataWedge interface.

Soft Keys Bar

The Soft Key bar is located at the bottom of the screen and contains two soft key buttons. These buttons display an action and a menu to the user that are context sensitive and can be changed dynamically by an application. For example, in the Contacts list view, the soft keys are **New** and **Menu**. As the user begins creating a new contact in edit view, the soft keys change to **Done** and **Menu**.

Start Screen

The Start screen lists applications and folders available to the user. *Table 2-4* lists the default programs and folders listed on the **Start** screen.



Figure 2-8 Start Screen

Table 2-4 Programs and Folders on the Start Screen

Icon	Name	Description	Icon	Name	Description
	Today	Close the Start menu and display the Today screen.		E-mail	Send an Email.
	Text	Send an SMS text message.		Contacts	Keep track of friends and colleagues.
	Calendar	Keep track of appointments and create meeting requests.		Internet Explorer	Browse Web and WAP sites as well as download new programs and files from the Internet.
	Settings	Open the Settings folder. See <i>Settings Folder</i> on page 2-11.		Pictures & Videos	View and manage pictures, animated GIFs, and video files.
	Getting Started	Launch the Getting Started application.		Windows Media	Play back audio and video files.

Table 2-4 Programs and Folders on the Start Screen (Continued)

Icon	Name	Description	Icon	Name	Description
	Messenger	Use this mobile version of Windows Live Messenger.		Marketplace	Purchase applications from the Marketplace.
	Phone	Make and receive calls, switch between calls, and set up conference calling.		MSN Weather	Check the local weather.
	Windows Live	Use this mobile version of Windows Live™ to find information on the web.		MSN Money	Keep track of your finances.
	Games	Play games.		Remote Desktop	Log onto Windows NT server type computers and use all of the programs that are available on that computer from the MC45.
	Notes	Create handwritten or typed notes, drawings, and voice recordings.		Calculator	Perform basic arithmetic and calculations, such as addition, subtraction, multiplication, and division.
	Tasks	Keep track of your tasks.		File Explorer	Organize and manage files on your device.
	ActiveSync	Synchronize information between the MC45 and a host computer or the Exchange Server.		Office Mobile	Use the complete suite of Microsoft® Office applications for your mobile device. Excel Mobile OneNote Mobile PowerPoint Mobile Word Mobile
	Internet Sharing	Connect a notebook computer to the Internet using the MC45's data connection.		Task Manager	Enables viewing of memory and CPU allocations and stops running processes. Refer to the <i>Microsoft Applications for Windows Embedded Handheld 6.5.3 User Guide</i> for more information.
	Search Phone	Search contacts, data, and other information on the MC45. Refer to the <i>Microsoft Applications for Windows Embedded Handheld 6.5.3 User Guide</i> for more information.		Wireless Companion	Open the Wireless Companion folder.

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Table 2-4 Programs and Folders on the Start Screen (Continued)

Icon	Name	Description	Icon	Name	Description
	Help	See Help topics for the current screen or program.		AirBEAM Client	Allows specially designed software packages to be transferred between a host server and the MC45. Refer to the <i>MC45 Integrator Guide</i> for more information.
	SMS Staging	Intercepts SMS Staging messages and reassembles them into the original Staging Profile.		MSP Agent	Interacts with MSP agents to collect monitoring and asset information to enable the configuration, provisioning, monitoring and troubleshooting of the MC45. Refer to the <i>MC45 Integrator Guide</i> for more information.
	Rapid Deployment Client	Facilitates software downloads from a Mobility Services Platform Console FTP server to the MC45. Refer to the <i>MC45 Integrator Guide</i> for more information.		DEMO	Launches the DEMO applications. This icon appears after the DEMO applications have been installed.
	Alarms	Sets the clock to the date and time of your locale. Alarms can also be set at specified days and times of a week.		Bing	Searches the internet.
	Debug	Contains the RIL Logger and RTLogExport applications. Use when instructed to by Motorola support personnel.		Toolbox	Contains the Adobe Reader , Streaming Player and Voice Commander applications.

Settings Folder

Table 2-5 lists the setting applications pre-installed on the MC45. Tap Start > Settings to open the **Settings** folder.

Table 2-5 Setting Applications in the Setting Folder

Icon	Name	Description	Icon	Name	Description
	Clock & Alarms	Set the device clock to the date and time of your locale or to a visiting time zone when you're traveling. Alarms can also be set at specified days and times of a week.		Power	Check battery power and set the time-out for turning off the display to conserve battery power.
	Lock	Set a password for the MC45.		Sounds & Notifications	Enable sounds for events, notifications, and more, and set the type of notification for different events.
	Connections Folder	Contains connection applications (see below).		Home	Customize the appearance of the Today screen and the information to display on it.
	Personal Folder	Contains personal applications (see below).		Bluetooth	Open the Bluetooth application, set the MC45 to visible mode and scan for other Bluetooth devices in the area.
	System Folder	Contains system applications (see below).			

Connections Folder

	Beam	Set the MC45 to receive incoming IrDA beams.		Connections	Set up one or more types of modem connections for your device, such as phone dial-up, GPRS, Bluetooth, and more, so that your device can connect to the Internet or a private local network.
	Domain Enroll	Make your device an AD domain member for device management and security. Refer to the <i>Microsoft Applications for Windows Mobile 6 User Guide</i> for more information.		GPS Assist	Helps to find your MC45 location faster.
	Phone Network Setup	Activate the phone and setup the network.		USB Connect	Enables or disables the enhanced network connectivity.

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Table 2-5 Setting Applications in the Setting Folder (Continued)

Icon	Name	Description	Icon	Name	Description
	WLAN	Setup wireless network connection and customize settings.		Wireless Manager	Enables or disables the MC45's wireless radios and customizes WLAN, and Bluetooth settings.
Personal Folder					
	Buttons	Assign a program to a button.		Owner Information	Enter personal information on the MC45.
	Input	Set options for each of the input methods.		Phone	Configure phone settings.
	KeyRemap	Remap the keys in the hard keypad.		Voice Commander Settings	Enable user to use speech commands on the MC45.
System Folder					
	About	View basic information such as the Windows Mobile® version and type of processor used on the MC45.		Certificates	See information about certificates installed on the MC45.
	Backlight & Keylight	Set the display backlight and keylight time-out and adjust brightness.		Customer Feedback	Submit feedback on the Windows Mobile 6 software.
	Error Reporting	Enable or disable the device's error reporting function. When this function is enabled and a program error occurs, technical data about the state of the program and your computer is logged in a text file and delivered to Microsoft's technical support if you choose to send it.		Encryption	Allow files on a storage card to be encrypted. Encrypted files are readable only on your device.
	DataWedge	Enable or disable the barcode scanning function.		Device Information	Display the MC45 hardware information.

Table 2-5 Setting Applications in the Setting Folder (Continued)

Icon	Name	Description	Icon	Name	Description
	External GPS	Set the appropriate GPS communication ports, if required. You may need to do this when there are programs on the device that access GPS data or you have connected a GPS receiver to the device.		Managed Programs	Displays the programs that were installed on the MC45 using Mobile Device Manager.
	Master Reset	Erase user data and restore settings.		Memory	Check the device memory allocation status and memory card information and stop currently running programs.
	Regional Settings	Set the regional configuration to use, including the format for displaying numbers, currency, date, and time on the MC45.		Remove Programs	Remove programs that you installed on the MC45.
	System Info	Displays the MC45's software and hardware information.		Screen	Change the screen orientation, re-calibrate the screen, and change the screen text size.
	Task Manager	Stop running programs.			

Adjusting Volume

To adjust the system volume using the **Speaker** icon in the navigation bar:

1. Tap the **Speaker** icon. The **Volume** dialog box appears.

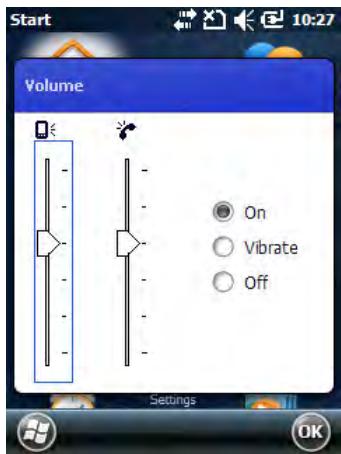


Figure 2-9 Volume Dialog Box

2. Tap and move the slide bar to adjust the volume.
3. Select the **On** or **Off** radio button to turn the volume on or off.

You can also adjust the system volume using the **Sounds & Notifications** window, or use the **Up/Down** button on the side of the MC45.

Battery Status Indications

Battery icons appear on the navigation bar indicating the battery power level. When the battery power falls below a predetermined level the icon indicates the status and a battery dialog box appears indicating the status of the main battery.



Figure 2-10 Battery Status Dialog Box

The **Battery** icon always appears in the **navigation bar** when the Today screen is visible. The icon indicates the battery power level. The message displays until the **Dismiss** button is pressed.



Figure 2-11 Battery Icon on the Title Bar

Also view the battery status using the **Power** window.

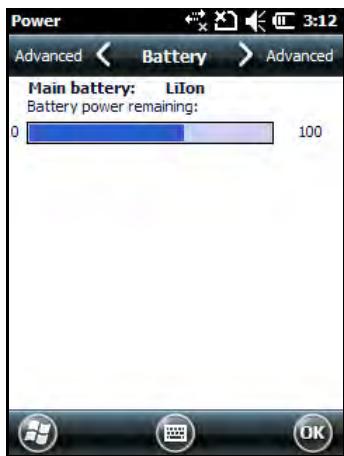


Figure 2-12 Battery Status.

LED Indicators

The MC45 has one LED indicator. The Charging/Battery Status LED indicates battery charging and status.

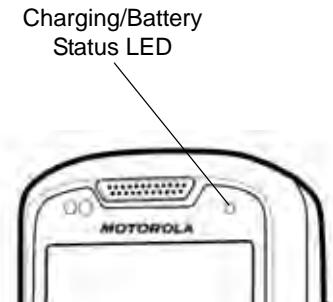


Figure 2-13 LED Indicators

Table 2-6 LED Indications

LED State	Indication
Charging/Battery Status LED	
Slow Blinking Green	Battery in MC45 is charging.
Solid Green	Battery in MC45 is fully charged.
Fast Blinking Red	Charging error.
Off	Not charging.
Single Blink Green (when Power button pressed)	Start-up commenced.

- ✓ **NOTE** During an over temperature error condition, the Charging Error indication will only appear if the condition exists for more than 30 minutes.

- ✓ **NOTE** For information about scanning/decoding, see [Chapter 3, Data Capture](#). For information about WAN radio status and settings, see [Chapter 4, Using the Phone](#), or refer to the *MC45 Integrator Guide*.

Resetting the MC45

To perform a reset simultaneously press the **Power** button and the **1** and **9** keys.

Waking the MC45

The wake-up conditions define what actions wake up the mobile computer after it has gone into suspend mode. The mobile computer can go into suspend mode by either pressing the Power button or automatically by Control Panel time-out settings. These settings are configurable and the factory default settings are shown in are subject to change/update. To change the wake-up conditions, tap **Start > Settings > Power > Wakeup**.

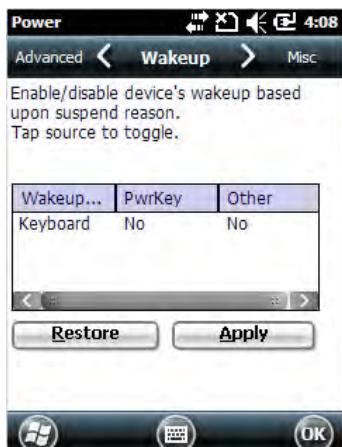


Figure 2-14 Wake-up Device Window

Locking the MC45



NOTE You can make emergency calls even when the MC45 is locked.

Use the Device Lock feature to prevent use of the device. Note that when locked, the MC45 does not respond to screen or keypad input.

To lock the MC45, tap **Start > Lock** or press the **Power** button for three seconds and then tap **Lock Device**. The **Lock** screen appears.

To unlock the MC45, slide the **Lock** button to the left or right.

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Figure 2-15 *Unlock Device Window*

If the MC45 was locked with a password, a prompt appears for the password.

Password Locking

Use the **Password** window to set a password to disable unauthorized access to the MC45.

✓ **NOTE** If the device is configured to connect to a network, use a strong (difficult to figure out) password to help protect network security. Password cracking tools continue to improve and the computers used to crack passwords are more powerful than ever.

1. Tap **Start > Settings > Lock icon > Password tab.**



Figure 2-16 *Password Window - Password Tab*

2. Select **Prompt if device unused for** check box to enable password protection.
3. From the drop-down list, select a time value for the protection to take affect after non-use.
4. From the **Password type:** drop-down list, select either **Simple PIN** or **Strong alphanumeric**.
5. For a simple password, enter a four-digit password in the **Password** field.
For a stronger password:

- a. Enter a seven character password in the **Password:** field. A strong password must contain at least seven characters and contain at least three of the following: uppercase and lowercase letters, numerals, and punctuation.
 - b. Re-enter the password in the **Confirm:** field.
6. Tap **OK**.
7. To set a hint to remember the password, tap the **Hint** tab.
8. In the text box, enter a hint for a password reminder.
9. Tap **OK**.



NOTE You can make emergency calls even when the MC45 is password locked.

When the MC45 is not used for a period of time and the user tries to access the device, the Password window appears. This also appears when the MC45 is connected to a host computer with either a cradle or communication cable.



Figure 2-17 Enter Password Windows

Enter the password to un-lock the device.

Tap the **Unlock** button to unlock the device and go to the Today screen, or tap the **Contact** button to unlock the device and go to the Contacts window or tap the **Email** button to unlock the device and go to the **Messaging** window.

Function Buttons

The MC45's buttons perform certain functions.

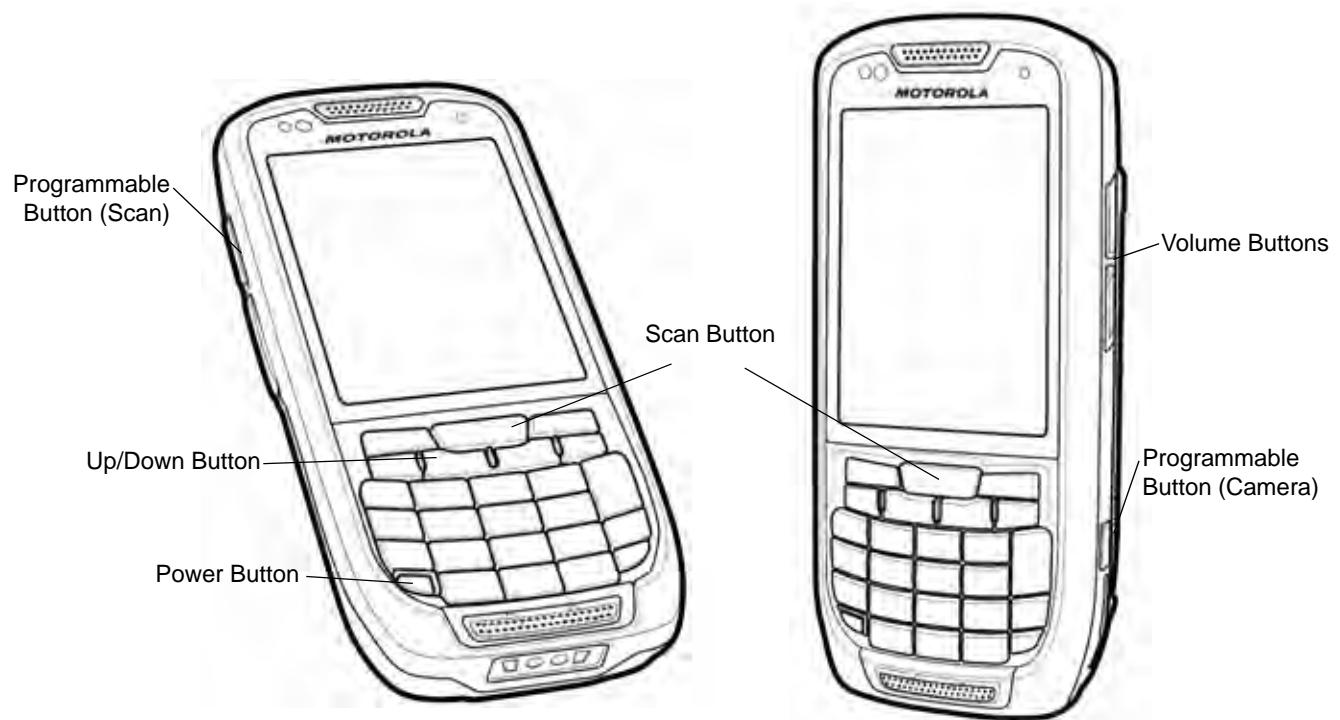


Figure 2-18 Function Buttons

- **Power:** Press the red **Power** button to turn the MC45 screen on and off. The MC45 is in suspend mode when the screen is off. For more information, see *Powering On the MC45* on page 1-7. Also use the **Power** button to reset the MC45 by performing a warm or cold boot. See *Resetting the MC45* on page 2-17.
- **Scan:** Press to scan bar codes or capture images. See [Chapter 3, Data Capture](#).
Or, press to open an application or perform a function. See the *Microsoft® Applications for Windows Embedded Handheld 6.5 User Guide* to set an application to open.
- **Up/Down:** Press to increase or decrease the MC45's volume.

Stylus

Use the MC45 stylus to select items and enter information. The stylus functions as a mouse.

- Tap: Touch the screen once with the stylus to press option buttons and open menu items.
- Tap and Hold: Tap and hold the stylus on an item to see a list of actions available for that item. On the pop-up menu that appears, tap the action to perform.
- Drag: Hold the stylus on the screen and drag across the screen to select text and images. Drag in a list to select multiple items.



CAUTION To prevent damage to the screen, do not use any device other than the Motorola-provided stylus.

Entering Data

When entering data on the keypad, use either the single-hand method or the two-hand method as shown in [Figure 2-19](#).



Single-hand Method



Two-hand Method

Figure 2-19 *Entering Data on the Keypad*

Display Orientation

The screen can be rotated between portrait and landscape modes manually. To change the orientation of the screen, tap **Start > Settings > System > Screen > General** tab and select between three different types of orientations:

- Portrait
- Landscape (right-handed)
- Landscape (left-handed).



Figure 2-20 Display Orientation Window

Taking Photos

To take a photo:

1. Press the side Camera button or tap **Start > Pictures & Videos** and then tap **Camera** on the Command bar.
2. Check the image on the view finder, adjust if necessary.
3. Press the side Camera button or the ENTER key to take the picture. Hold the MC45 still until the camera flash occurs or the shutter sound is heard.

Recording Video

To record a video clip:

1. Press the side Camera button or tap **Start > Pictures & Videos** and then tap **Camera** on the Command bar.
2. Tap **Camera** on the command bar.
3. Tap **Menu > Video** to set shooting mode to video.

The available recording time displays on the screen.



NOTE By default, the time limit for recording videos is set to 30 seconds.

4. Press the **OK** key or the side **Camera Button** to begin recording.

Recording stops when you press the **OK** key or the side **Camera Button** again.

Viewing Photos and Videos

To view photos and video clips:

1. Tap **Start > Pictures & Videos** icon.
2. Tap the picture or video clip to view.

Chapter 3 Data Capture

Introduction

The MC45 offers two types of data capture options:

- Laser scanning
- Color digital camera.

The MC45 contains the **DataWedge** application that allows user to enable the camera, decode the bar code data and display the bar code content. To enable **DataWedge**, see *DataWedge on page 3-4*.



NOTE To perform data capture a scanning enabled application must be installed on the MC45. A sample scanning application can be downloaded from the Motorola Support site at <http://www.motorolasolutions.com/support>.

Laser Scanning

An MC45 with an integrated laser scanner has the following features:

- Reading of a variety of bar code symbologies, including the most popular 1-D code types.
- Intuitive aiming for easy point-and-shoot operation.
- Adaptive Scanning.

Scanning Considerations

Typically, scanning is a simple matter of aim, scan, and decode and a few quick trial efforts master it. However, consider the following to optimize scanning performance:

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- Range

Any scanning device decodes well over a particular working range — minimum and maximum distances from the bar code. This range varies according to bar code density and scanning device optics.

Scanning within range brings quick and dependable decodes; scanning too close or too far away prevents decodes. Move the scanner closer or further away to find the right working range for the bar codes being scanned.

- Angle

Scanning angle is important for promoting quick decodes.

- Hold the MC45 farther away for larger symbols.

- Move the MC45 closer for symbols with bars that are close together.

 **NOTE** Scanning procedures depend on the application and MC45 configuration. An application may use different scanning procedures from the one listed above.

Bar Code Scanning

1. Ensure that a scan-enabled application is loaded on the MC45.

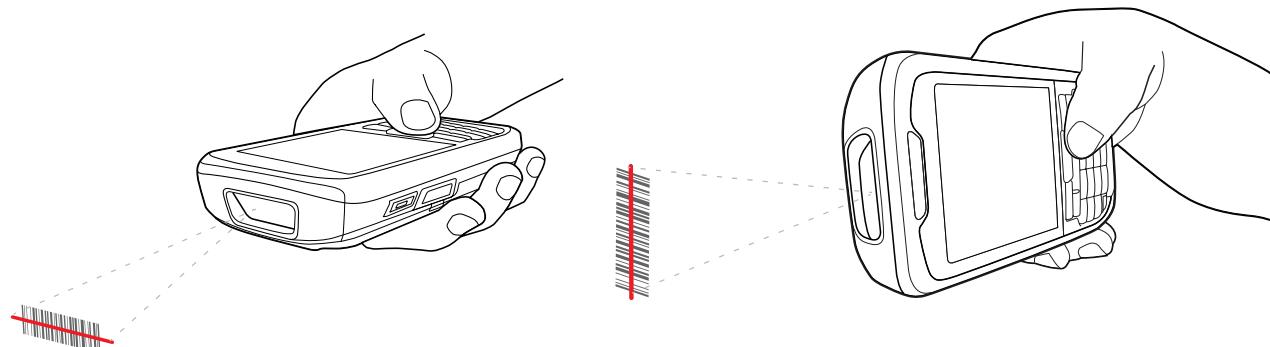


Figure 3-1 Linear Scanning

2. Press and hold the scan button. The laser beam exits from the end of the MC45. Ensure the red scan beam covers the entire bar code. The Scan/Decode LED lights red to indicate that scanning is in process, then lights green and a beep sounds, by default, to indicate the bar code was decoded successfully.



Figure 3-2 Linear Scanner Aiming Pattern

3. Release the scan button.

Adaptive Scanning

The MC45 contains the adaptive scanning feature that automatically adjusts the scan beam width for rapid and easy scanning of bar codes from near contact to more than 200 inches away.

By default the MC45 is set to wide scan beam width. When the user presses the scan button, the MC45 determines the distance from the bar code. For close bar codes the MC45 sets a wide beam width and for far bar codes it sets a narrow beam width. The MC45 uses distance, bar code type and material to determine the correct scan beam width.

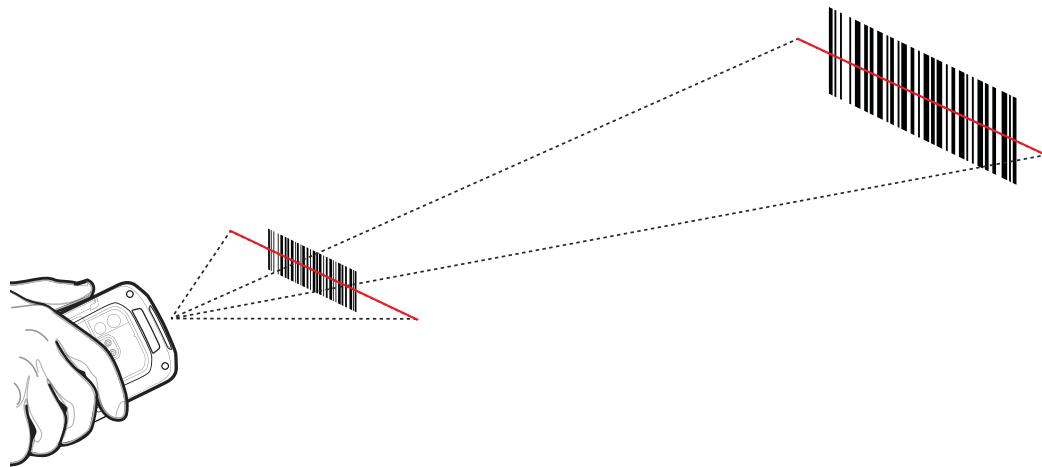


Figure 3-3 Adaptive Scanning

Color Digital Camera

MC45 with an integrated color digital camera have the following features:

- Omnidirectional reading of a variety of bar code symbologies, including the most popular linear, postal, PDF417, and 2D matrix code types.
- Advanced intuitive aiming for easy point-and-shoot operation.

Digital Camera Scanning

1. Ensure that a scan-enabled application is loaded on the MC45.
2. Aim the camera lens on the back of the MC45 at a bar code.
3. Press and hold the scan button. In the image window, align the camera over the barcode.
4. A beep sounds, by default, to indicate the bar code was decoded successfully. Release the scan button.

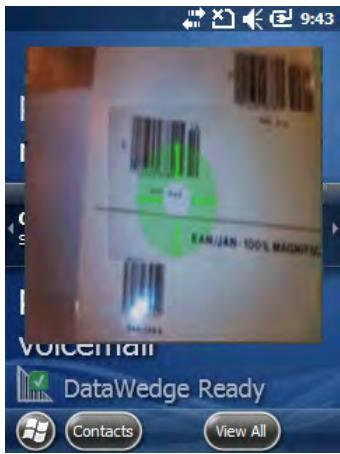


Figure 3-4 Digital Camera Scanning

5. Release the scan button. The Scan/Decode LED lights green and a beep sounds, by default, to indicate the bar code was decoded successfully.

✓ **NOTE** The camera decode feature is set by default to automatically decode the bar code when read. This feature can be programmed to display a green aiming reticle upon good decode indicating that the bar code has been successfully decoded and to that the scan button may be released.

DataWedge

DataWedge allows the user to input captured bar code data into a text field of an application.

To enable **DataWedge**:

1. Tap **Start > Settings > System > DataWedge**.
2. Tap **Basic Configuration**.
3. Tap **1. Barcode input**.
4. Select one of the following
 - a. Tap **1. SSI Scanner Driver** for the laser scanner.
 - b. Tap **2. Camera Scanner Driver** for the camera.
5. Tap **1. Enabled**.
6. Tap **0. Back**.
7. Tap **0. Back**.
8. Tap **0. Exit**.
9. Tap **OK**.
10. Tap the **Running** option to start the DataWedge process. The DataWedge Status changes to **Ready**.
11. Tap **OK**.

To disable **DataWedge**:

1. Tap **Start > Settings > System > DataWedge**.
2. Tap the **Running** option to end the DataWedge process. The DataWedge Status changes to **Stopped**.
3. Tap **OK**.

Chapter 4 Using the Phone

Introduction

Use the MC45 to make phone calls, set up speed dials, keep track of calls, and send text messages. Your wireless service provider may also provide other services such as voice mail, call forwarding, and caller ID.

Also use the integrated phone to connect to an ISP or work network in order to browse the Web and read e-mail. Connect to the Internet or work network over High-Speed Downlink Packet Access (HSDPA) using Cellular Line, or using the modem specified by the mobile operator. For more information, or to customize the MC45 phone by changing phone settings, see the *MC45 Integrator Guide*.

Accessing the Phone Dialer

- ✓ **NOTE** Dialers vary depending on the carrier, services and the state of the phone. For example, place calls on hold and use  to create conference calls. (See [Conference Calling on an MC45 on page 4-17](#).)

Access the dialer regardless of the program in use. Applications on the MC45 can be in use during a call.



Figure 4-1 Phone Dialer

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To access the phone dialer tap **Start > Phone** or press  .

To receive calls when the MC45 is suspended, leave the phone radio turned on and ensure the MC45 is set to wake with any key.

Turning the Phone On and Off

Windows Embedded Handheld 6.5 devices include **Wireless Manager**, which provides a simple method of enabling and disabling the phone.

To open **Wireless Manager**, tap the **Connectivity** icon.



Figure 4-2 Opening Wireless Manager

Select **Wireless Manager**. The **Wireless Manager** window appears.

To toggle on or off the phone, tap blue Phone bar.

To configure settings for a connection, tap **Menu > Phone Settings**.

Audio Modes

The MC45 offers three audio modes for use during phone calls:

- **Handset Mode:** Switches audio to the speaker at the top front of the MC45, so you can use the MC45 as a handset. This is the default mode.
- **Speaker Mode:** Use the MC45 as if on speaker phone. Tap the **Speaker On** button to activate this mode. Tap the **Speaker Off** button to switch back to handset mode.
- **Headset Mode:** Connect a Bluetooth headset to automatically switch audio to the headset.

The MC45 defaults to handset mode. When a Bluetooth headset is configured for use with the MC45, the earpiece and speakerphone are muted and audio is heard through the headset.



NOTE While using a Bluetooth headset during a call, the mobile computer will not go into suspend mode.

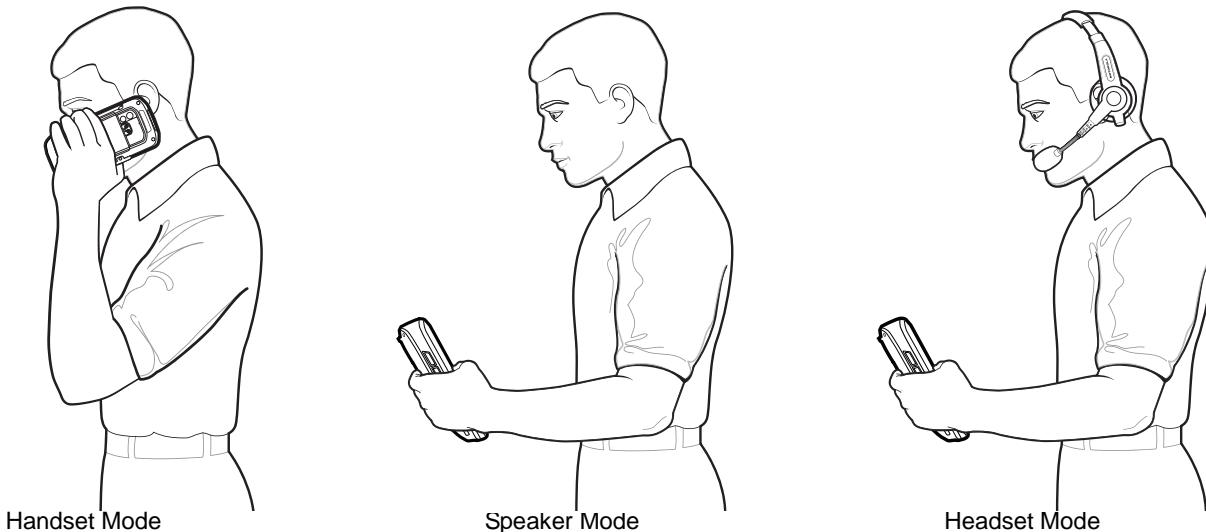


Figure 4-3 Audio Modes

Using a Bluetooth Headset

You can use a Bluetooth headset for audio communication when using an audio-enabled application. See [Chapter 7, Using Bluetooth](#) for information on connecting a Bluetooth headset to the MC45. Set the MC45's volume appropriately before putting the headset on. When a Bluetooth headset is connected the speakerphone is muted.

It is recommended for phone conversations to use the Bluetooth Hands-free profile instead of the Headset profile. See [Chapter 7, Using Bluetooth](#) for more information.



NOTE When using a Bluetooth headset during a call, the MC45 power button is disabled and the MC45 will not go into suspend mode. Once the call is completed, the power button functionality is enabled.

The following dialog box displays when a Bluetooth headset connection is established.

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Figure 4-4 WWAN Bluetooth Audio Notification Dialog Box

Adjusting Audio Volume

Use the Volume Control Slider or the keypad keys to adjust the volume of the ringer when not in a call and the audio volume when in a call.

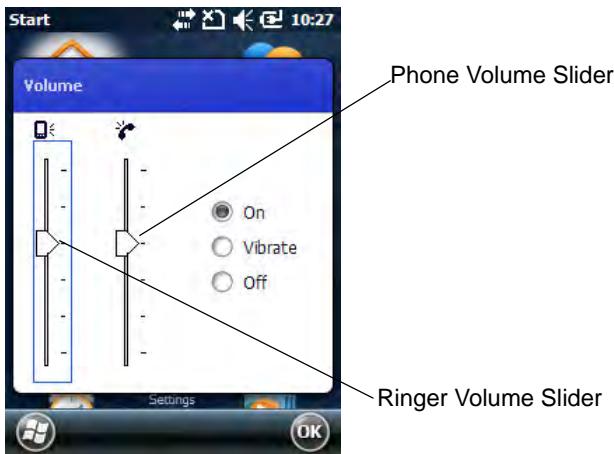


Figure 4-5 Phone Volume Slider

To adjust the volume tap the **Speaker** icon in the **Title** bar. Move the slider up or down to adjust the volume.

- ✓ **NOTE** Adjust the conversation phone volume during a call. Adjusting the volume while not in a call affects the ring and notification sound levels.

Making a Call

- ✓ **NOTE** You can make emergency calls even when the MC45 is locked or when a SIM card is not installed. See [Making an Emergency Call on page 4-7](#) for more information.

With the MC45, you can make a call from the phone dialer, contacts, speed dial and call history.

Using the Phone Keypad

To make a call using the phone keypad:

1. Tap **Start > Phone** or press .
 2. Enter the phone number on the dialer or keypad. The number appears in the Call Line.
 3. Tap the green Call Line or press .
 4. Tap  to cancel the call or tap  to place the MC45 in speakerphone mode.
 5. When the call connects, the name or number appears in the Call Line. To place the call on hold, press  again.
To return to the call, press  again.
- ✓ **NOTE** Placing a call on hold using the Call Line can be enabled. To enable, press  >  > **Enable Hold**. The toggle icon changes to **On**.
6. Tap  or press  to end the call.

Using Contacts

Use Contacts to make a call without looking up or entering the phone number.

To make a call from Contacts:

1. Tap **Start > Contacts**.
2. From the contact list, tap and hold the contact name.

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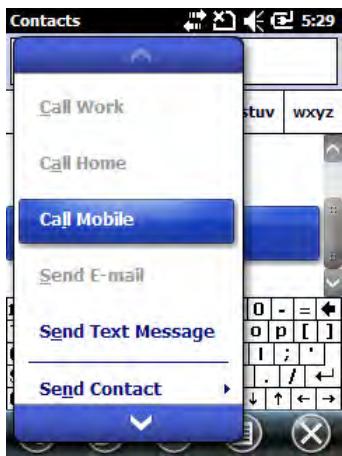


Figure 4-6 Contacts Menu

3. Tap **Call Work**, **Call Home** or **Call Mobile**.

✓ **NOTE** To make a call from an open contact, tap the number to call. See On-Device Help for more information about Contacts.

Using Call Log

To make a call using Call Log:

1. Tap **Start > Phone** or press .
2. From the Phone dialer, tap .

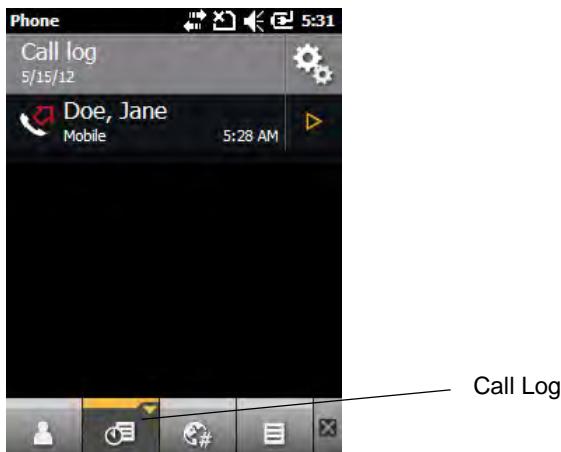


Figure 4-7 Call Log Window

3. Tap on the desired Contacts name to begin dialing and return to the phone dialer.
4. Press to stop dialing or end the call.

Making a Speed Dial Call

Use Speed Dial to call someone saved in the speed dial directory.

To make a speed dial call:

1. Tap **Start > Phone** or press .
2. From the Phone keypad, tap the speed dial location number assigned to a contact.

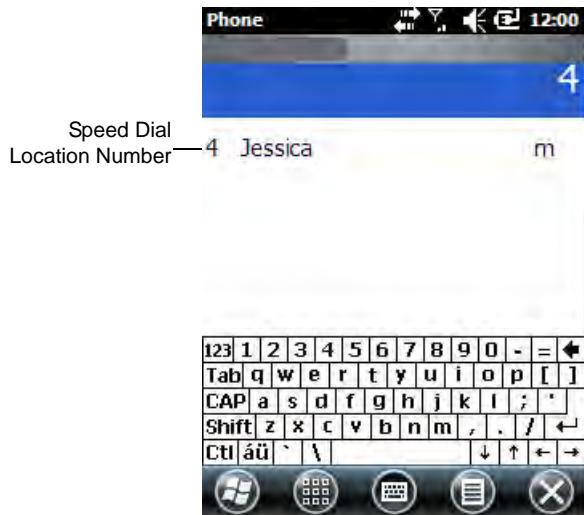


Figure 4-8 Speed Dial Contact List

3. Press  to stop dialing or end the call.

Making an Emergency Call

Your service provider programs one or more emergency phone numbers, such as 911, 999 or 112 that you can call under any circumstances, even when your phone is locked or the SIM card is not inserted. Your service provider can program additional emergency numbers into your SIM card. However, your SIM card must be inserted in your phone in order to use the numbers stored on it. See your service provider for additional information. See [Installing the SIM Card on page 1-4](#) for SIM card installation procedures.

When the alpha-numeric keypad phone is locked, press the Orange key twice to set the keypad to numeric mode and then enter the emergency number.

✓ **NOTE** Emergency numbers vary by country. Your phone's pre-programmed emergency number(s) may not work in all locations, and sometimes an emergency call cannot be placed due to network, environmental, or interference issues.

Answering a Call

A dialog box appears on the MC45 when it receives an incoming call. If the phone is set to ring, a ring tone sounds. Answer or ignore the incoming call.

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To answer an incoming call tap  on the **Phone - Incoming** dialog or press  .



Figure 4-9 Incoming Call

To ignore the incoming call tap  or press . This may send the caller to voice mail, depending on the service provider. Otherwise, this presents busy signal to the calling party.

Press  to stop dialing or end the call..

Incoming Call Features

- You can use other programs on the MC45 during a call. To switch back to Phone, press  or tap **Start > Phone**. Tap **End** to end the call.
- If a caller isn't in your contact list, create a contact during the call or from Call History by tapping **Menu > Save to Contacts**.
- To hold the current call and answer a waiting call, tap  on the **Phone - Incoming** dialog or press  to place the current call on hold and answer the incoming call.
- To put a call on hold to call another number, press  or tap the green Call Line.
- To move from one call to another, press  on the MC45 or tap the green Call Line.

Smart Dialing

Smart Dialing makes it easy to dial a phone number. When you start entering numbers or characters, Smart Dialing automatically searches and sorts the contact entries on the SIM card, in Contacts, and the phone numbers in Call History (including incoming, outgoing, and missed calls). You can then select the desired number or contact from the filtered list to dial.

Open the Phone screen, then tap the keys on the Phone keypad that correspond to the phone number or contact to call. The contact panel lists contacts that match the sequence that you entered.

Smart Dialing starts looking for numbers or contacts that match the sequence entered.

To find a phone number:

- Enter the first one or two digits to find a phone number in Call History.
- Enter the first three digits or more to find a phone number from the saved Contacts and SIM card.

To find a contact name:

- Enter the first letter of a contact's first name or last name. Smart Dialing searches for the letter starting from the first character of a contact name as well as from the character that appears after a space, dash, or underscore in a contact name. For example, if you tap number "2" which is associated with [a, b, c] on the Phone keypad, contact names such as the following will be considered matches: "Smith, Bernard", "Adams, John", "Carlson, Eileen", "Dillon, Albert", "Childs, Larry", "Cooper, Robert" and "Parks, Celine".
- If the matching list is long narrow down the search further by entering another letter. Using the same example above, tap "3" which is associated with (d, e, f), the matching list is narrowed down to the following names: "Smith, Bernard", "Adams, John", and "Parks, Celine".

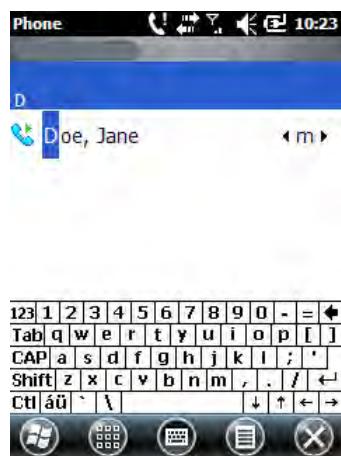


Figure 4-10 Finding a Contact

To make a call or send a text message using Smart Dialing:

1. Begin entering the first few numbers or characters.
2. In the Smart Dialing panel, use the up and down arrows on the keypad to navigate to the desired contact or phone number.
3. When the correct contact is selected, press to make a voice call.
4. To send a text message to the selected contact, tap **Menu > Send Text Message**.
5. To call a different phone number associated with the selected contact, tap the contact name and select the phone number to call.

Muting a Call

During a call, you can mute the microphone so you can hear the person on the line but he or she cannot hear conversation from the microphone. This is useful when there is conversation or background noise on your end.

To mute or unmute a call:

1. Tap **Start > Phone** or press .

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2. Make a call.
3. Tap  on the display to mute the audio. The **Mute** button becomes yellow.

Using Speed Dial

Create speed dial numbers to dial frequently called numbers with a single tap. Before creating a speed dial entry, ensure the phone number exists in Contacts.

Adding a Speed Dial Entry

To add a speed dial entry from the phone keypad:

1. Ensure the contact and phone number are in the Contacts list.
2. Tap **Start > Phone** or press  .
3. Tap .

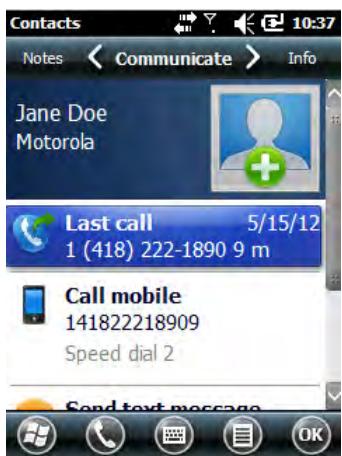


Figure 4-11 Contacts

4. Tap the desired contact name and number in the list.
5. Tap  > **Add to Speed Dial**.

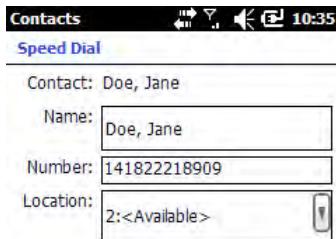


Figure 4-12 Speed Dial Contact Location

6. In the **Location** field, tap the up/down arrows to select an available location to assign as the new speed dial entry. The first speed dial location is reserved for voice mail.
7. Tap **OK** to add the contact to the speed dial list.

To add a speed dial entry from the **Contacts** window:

1. Tap **Start > Contacts**.



Figure 4-13 Contacts

2. Tap a contact name.
3. Tap **Menu > Add to Speed Dial**.

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Figure 4-14 Speed Dial Contact Location

4. In the **Location** drop-down list, select a different available location to assign as the new speed dial entry. The first speed dial location is reserved for voice mail.
5. Tap **OK**.

Editing a Speed Dial Entry

To change a speed dial entry:

1. Tap **Start > Phone** or press .
2. Tap .
3. Tap the desired contact name in the list.
4. Tap > **Edit Speed Dial**.
5. In the **Location** drop-down list, select a different available location to assign as the new speed dial entry. The first speed dial location is reserved for voice mail.
6. Tap **OK** to change the speed dial list.
7. Tap **OK** to exit the **Edit Contacts** window.
8. Tap **X** to exit the **Contacts** window.

Deleting a Speed Dial Entry

To delete a speed dial entry:

1. Tap **Start > Phone** or press .
2. Tap .
3. Tap the desired contact name in the list.

4. Tap  > **Edit Speed Dial**.
5. Tap .
6. Tap **Yes** to confirm permanently deleting the speed dial entry.

 **NOTE** Deleting names and phone numbers in **Speed Dial** does not delete the contact information in **Contacts (Start > Contacts)**.

7. Tap **OK** to exit the **Edit Contacts** window.
8. Tap **X** to exit the **Contacts** window.

Using Call Log

Use Call Log to call someone who was recently called, or recently called in. Call Log provides the time and duration of all incoming, outgoing, and missed calls. It also provides a summary of total calls and easy access to notes taken during a call. **Table 4-1** lists the call history icons that appear in the **Call Log** window.

Tap **Start > Phone** or press   and then tap  to open the **Call Log** window

Table 4-1 Call Log Icons

Icon	Description
	This icon appears next to the contact information for all outgoing calls.
	This icon appears next to the contact information for all incoming calls.
	This icon appears next to the contact information for all unconnected outgoing calls.
	This icon appears next to the contact information for all missed calls.

Managing Call Log

Change views, reset the call timer, and delete calls to manage the calls stored in Call Log.

Changing the Call Log View

1. Tap **Start > Phone** or press   and then tap  to open the **Call Log** window.
2. Tap  on the top right corner to show the **Call Log** menu.
3. Tap **Filters** and select a view type from the menu to display only received calls, outgoing calls, incomplete calls or missed calls.

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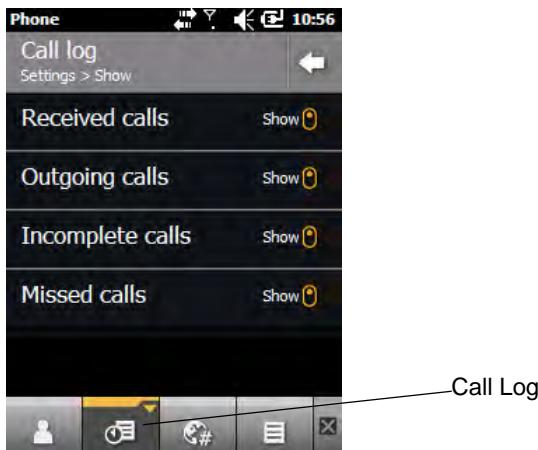


Figure 4-15 Call Log Window

4. Tap to exit the Call Log window.

Deleting All Call Log Items

1. Tap **Start > Phone** or press to display the Phone dialer.
2. From the Phone dialer, tap .
3. Tap > **Delete call logs**.

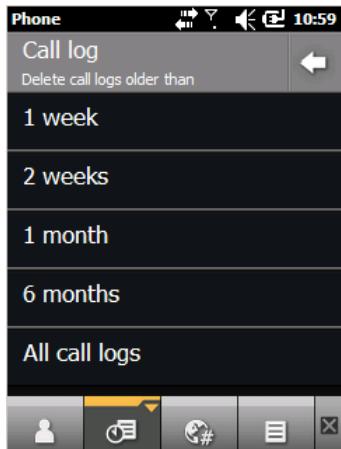


Figure 4-16 Call Log - Delete Call Logs Menu

4. Select **All call logs**.

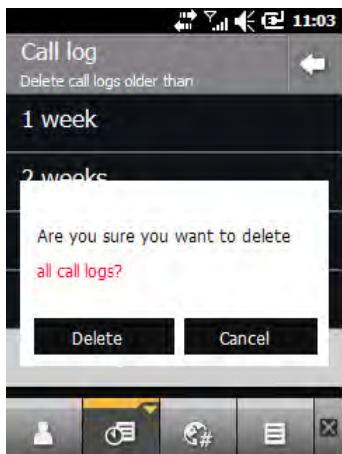


Figure 4-17 Call Log - Deleting all call logs

5. Tap **Delete**.
6. Tap **OK** to exit the **Call History** window.

Viewing Call Status

1. Tap **Start > Phone** or press to display the Phone dialer.
2. From the Phone dialer, tap .
3. Tap an item to call the number or tap to open the **Options** window for that item. The **Call Log Options** window appears.

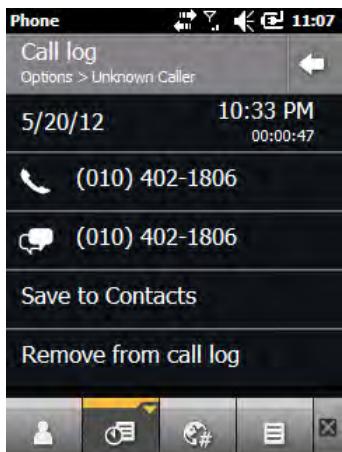


Figure 4-18 Viewing Call Status

4. Select an applicable option from the list.
5. Tap to exit the **Options** window.
6. Tap to close the **Call Log** window.



NOTE When more than one call is on the phone line, only the duration of the first call is recorded.

Using the Call Log Options

Use the Call Log Options to dial voice mail, save to contacts, view a note, delete a listing, send a text message, and make a call.

1. Tap **Start > Phone** or press to display the Phone dialer.
2. From the Phone dialer, tap .
3. Tap an item to call the number or tap to open the **Options** window for that item. The **Call Log Options** window appears.



Figure 4-19 Call Log Option

4. Select an applicable item from the menu, as needed.
5. Depending on the item selected, the appropriate window displays. For example, select **Send Text Message** to display the **Inbox** window.
6. Tap to exit the **Options** window.
7. Tap to close the **Call Log** window.

Conference Calling on an MC45

✓ **NOTE** Conference Calling and the number of conference calls allowed may not be available on all services. Please check with your service provider for Conference Calling availability.

To create a conference phone session with multiple people:

1. Tap **Start > Phone** or press  to display the Phone dialer.
2. Enter the first phone number and tap the Call Line area or press  . When the call connects, the name or number appears in the Call Line
3. Tap .
4. Tap  . The dialer reappears.
5. Enter the second number and tap **Send**.
6. When the call connects, the first call is placed on hold and the second call is active.

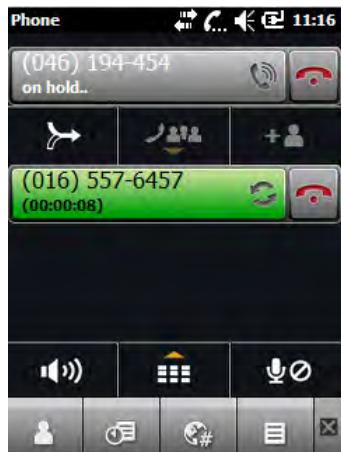


Figure 4-20 Creating a Conference Call

7. Tap call Line 1 to make that call active. The second call goes on hold.
8. Tap  to create a conference call (three callers).

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Figure 4-21 Two Merged Calls

9. To add a third caller, tap . The dialer appears. When the call connects, the new call is active and the conference is on hold.

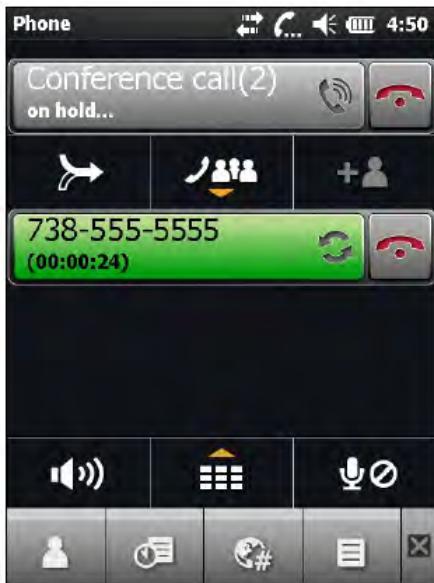


Figure 4-22 Adding a Third Call

10. To add the new caller to the conference, tap .



Figure 4-23 Three Merged Calls

11. Tap to view all callers.



Figure 4-24 Un-Merge Calls

12. To remove a caller from the conference, tap the caller and then tap next to the caller or press .
13. To end the conference call, tap next to the Call Line or press . **Call Completed** screen appears and then the dialer displays.



NOTE To speak privately with one party during a conference call, tap and then tap next to the caller. To include all parties again, tap .

SMS Messaging

Text messages allow the user to send and receive short text messages (SMS) to and from other mobile devices. The text can contain words, numbers or an alphanumeric combination no longer than 160 characters.

Sending a Text Message

To send a text message:

1. Tap **Start > Text**.
2. Tap  **> New > SMS**.



Figure 4-25 Create Text Message

3. Tap **To** to select a recipient from **Contacts**.
4. Compose your message.
 - The auto-correct feature automatically fixes common spelling errors as you type so your messages are more accurate.
 - The character counter lets you see and control the size of the message as you compose.
 - If you want to know if your text message was received, tap  **> Message Options**, then select the **Request message delivery notification** check box.
5. Tap  to send the message.

If the phone is turned on, your text message is sent. If it's off, you are prompted to turn on the phone. If you do so, the message is sent; otherwise when you tap **OK**, the message is saved in the **Drafts** folder and sent when the phone is turned on.

If you are out of coverage area, the message is saved in the **Drafts** folder and sent when you return to a coverage area.



NOTE On MC45 devices, the message remains in the **Drafts** folder and has to be manually re-sent when you return to a coverage area.

Viewing Text Messages

To view a text message:

You can view a text message whether the phone is on or off. When the phone is on, you can view a text message from its notification callout. Tap the **text message notification** icon on the navigation bar to display the message.



Figure 4-26 New Text Message Notification

The Caller Identification feature matches incoming text message numbers with those stored in **Contacts** so you know who is sending you a message. Furthermore, the **New Text Message** dialog box gives you the option to call the sender or save, dismiss, or delete the message.

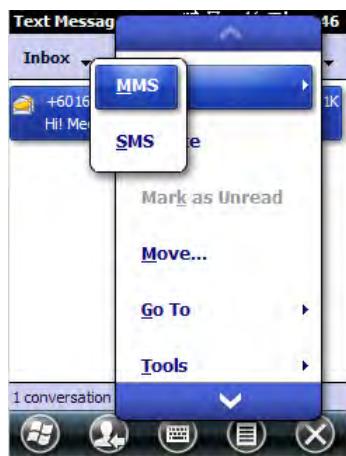


Figure 4-27 New Text Message Options

When the phone function is off, you can still view received text message in Messaging:

1. Tap **Start > Text** or on the Today screen, tap the text message on the Information Bar.

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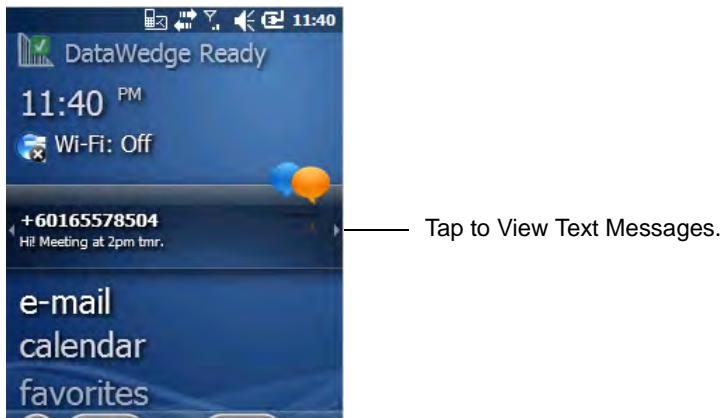


Figure 4-28 Text Messaging on Today Screen

2. The **Text Messages** window appears.
3. In the message list, tap the text message.

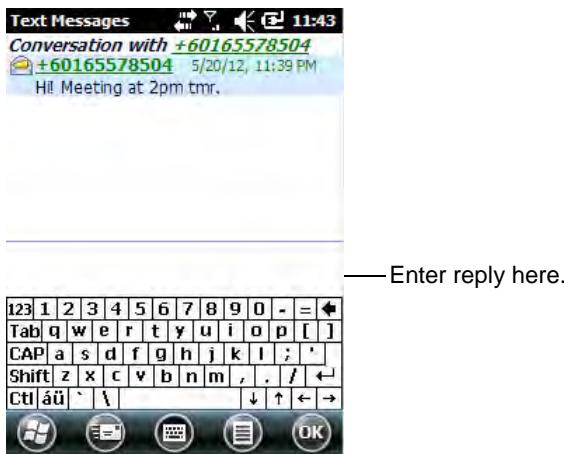


Figure 4-29 Text Messages List

Replying to a Text Message

To reply to a text message:

1. Tap **Start > Text**.
2. In the message list, tap a text message. The window displays previous text conversations.
3. Enter text in the reply field.
4. Tap  to send the reply.

MMS Messaging

MMS Messaging allows the user to send a pictures, videos, audio files and other file types to another mobile computer.

Creating and Sending MMS Messages

To send an MMS message:

1. Tap **Start > Text.**
2. Tap  **> New > MMS.**



Figure 4-30 MMS Window

3. To add a contact, tap  . A window appears with a list of contacts. Select one or more contacts and then tap **Done**.
4. Tap  to add a subject for the message. Enter the subject text in the window and then tap **Done**.
5. Tap in the text window to enter a text message. A window appears allowing you to add a text message plus emoticons, favorite web addresses, pre-defined text, contact information and calendar information. Tap **Done** after adding information.
6. Tap  to attach a picture or video stored on the MC45 to the message.
7. Tap  to attach a sound file stored on the MC45 to the message.
8. Tap  to take a picture and attach it to the message.
9. Tap  to capture video and attach it to the message.
10. Tap  to record a message and attach it to the message.
11. Tap  to add a file stored on the MC45 to the message.
12. After all of the items are attached to the message, tap **Send**.

Viewing an MMS Message

To view an MMS message:

1. Tap **Start > Text.**
2. Tap the MMS message.
3. In the threaded message, tap the MMS icon to view the message.

4. Tap **Contents** to view a list of files included in the message.

On the **Message Contents** screen:

1. Tap **Menu > Save** to save a file.
2. Tap **Menu > Save into My Text** to save the contents of a text file to the My Text list.
3. Tap **Menu > Assign to Contact** to associate a photo to a contact.
4. Tap **Menu > Set as Ringtone** to associate a audio file as a ringtone.

Replying to an MMS Message

To reply to an MMS message

1. Tap **Start > Text**.
2. Tap the MMS message.
3. In the threaded message, tap the MMS message to open and view an MMS message.
4. After viewing the MMS message, tap **Menu > Reply > via MMS** to reply with an MMS message or tap **Menu > Reply > via SMS** to reply with a text message.

Blocking Incoming MMS Messages

To block incoming MMS messages from a specific sender:

1. Open and view the MMS message.
2. Tap **Menu > Show > Contact Details**.
3. Tap **Menu > Save to Blacklist**.
4. Tap **Done**.

To unblock a sender:

1. Tap **Start > Text**.
2. Tap **Menu > MMS Options > Blacklist**.
3. Tap and hold the phone number.
4. Select **Delete** from the pop up menu.
5. Tap **OK**.

Voice Commander

Voice Commander is a speech dialog system that provides natural human interface for users to communicate seamlessly with the MC45. Users can make phone calls, look up contact information, launch programs or check calendars. Voice Commander contains the following features:

- Eyes-free and hands-free voice command and control.
- Speaker-independent speech recognition technology, no training is required.

- Ease of use conversational user interface.
- Personal Voice Tag and Digit Model Adaptation to enhance the usability.

To initiate Voice Commander tap **Start > Toolbox > Voice Commander** or press the call button on a Bluetooth headset. The system says, “Say a *Command*.” The user says one of the following commands:

- Call
- Find
- Redial / Callback
- Play Music
- Play
- Next / Previous
- Start
- Appointments
- Read / Call History
- What time is it?
- What can I say?
- Goodbye

Call

To call a person by name:

1. Initiate **Voice Commander**. The MC45 responds with “Say command.”
2. Say “Call Michael Archer.” System responds with “Call Michael Archer work, is it correct?”
3. Say “Yes.” MC45 responds with “Dialing.”

To call a person at a location:

1. Initiate **Voice Commander**. The MC45 responds with “Say command.”
2. Say “Call Mary Smith at home.” The MC45 responds with “Call Mary Smith home, is it correct?”
3. Say “Yes.” The MC45 responds with “Dialing.”

To call a person with more than one phone number:

1. Initiate **Voice Commander**. The MC45 responds with “Say command.”
2. Say “Call Alex Jordan.” The MC45 responds with “Call Alex Jordan, home, work, mobile or cancel?”
3. Say “Home.” The MC45 responds with “Dialing.”

If two people have similar names:

1. Initiate **Voice Commander**. The MC45 responds with “Say command.”
2. Say “Call Halley Johnson.” The MC45 responds with “More than one Halley Johnson, please select.”
3. Select the contact intended to call.



NOTE Voice Commander automatically maintains a maximum of 2000 contacts in the recognition database.

If the command can not be recognized, **Voice Commander** prompts “*Please say again.*” This situation could happen under the noisy environment, or when user says command before Voice Commander starts recording. After hearing the prompt “*Say Command*”, user should wait one to two seconds to speak the command.

The recognizable contact length is 48 characters. Contacts exceeding 48 characters will be ignored.

Find

To look up contact information:

1. Initiate **Voice Commander**. The MC45 responds with “*Say command.*”
2. Say “*Find Mary Smith.*” The MC45 responds with “*Mary Smith home 5555551212.*”

To look up a specific number:

1. Initiate **Voice Commander**. The MC45 responds with “*Say command.*”
2. Say “*Find Michael Archer at work.*” The MC45 responds with “*Michael Archer, work, 5555551212.*”

If two contacts have similar names:

1. Initiate **Voice Commander**. The MC45 responds with “*Say command.*”
2. Say “*Find Haley Johnson at work.*” The MC45 responds with “*More than one Haley Johnson, please select.*” Voice Commander displays a window with the two contacts. (System will show both Halley Johnson and Haley Johnson for user to select.)

If a contact is not found:

1. Initiate **Voice Commander**. The MC45 responds with “*Say command.*”
2. Say “*Find Michael Archer at home.*”
3. MC45 responds with “*Michael Archer has no home number.*”

Redial

To redial a previous number:

1. Initiate **Voice Commander**. The MC45 responds with “*Say command.*”
2. Say “*Redial.*” The MC45 responds with “*Call Mary Smith at home, is it correct?*”
3. Say “*Yes.*” The MC45 responds with “*Dialing.*”

Callback

1. Initiate **Voice Commander**. The MC45 responds with “*Say command.*”
2. Say “*Callback.*” The MC45 responds with “*Call Mary Smith at home, is it correct?*”
3. Say “*Yes.*” The MC45 responds with “*Dialing.*”

Start

To launch an application:

1. Initiate **Voice Commander**. The MC45 responds with “Say command.”
2. Say “*Start calendar*.” The MC45 responds with “*Go to Calendar*.” The Calendar application launches.

Appointments

To read today's, tomorrow's or this week's appointments:

1. Initiate **Voice Commander**. The MC45 responds with “Say command.”
2. Say “*Today's appointment*.” The MC45 responds with “*You have 3 appointments*” and reads the appointments.

✓ **NOTE** User can say Previous, Next, Repeat, or Abort to control calendar reading. Voice Commander only plays the new appointments. Older appointments are ignored.

Read

To read a text message or an email message:

1. Initiate **Voice Commander**. The MC45 responds with “Say command.”
2. Say “*Read SMS*.” The MC45 responds with “*You have 3 SMS*” and reads the SMS messages.

What time is it

To find out the time of day:

1. Initiate **Voice Commander**. The MC45 responds with “Say command.”
2. Say “*What time is it?*” The MC45 responds with “*The time is 3 p.m.*”

Call History

To view the call history window:

1. Initiate **Voice Commander**. The MC45 responds with “Say command.”
2. Say “*Call History*.” The MC45 responds with “*Call history*.”
3. The **Call History** page displays.

Voice Play Music

To play a specific music file:

1. Initiate **Voice Commander**. The MC45 responds with “Say command.”
2. Say “*Play The Moment*.” The MC45 responds with “*The Moment*.”
3. Windows Media starts to play “*The Moment*.”

To play all music files:

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1. Initiate **Voice Commander**. The MC45 responds with “Say command.”
2. Say “Play music.” The MC45 responds with “Play music.”
3. Windows Media starts to play all music files.

To play a different music file during playing of another:

1. Initiate **Voice Commander**. The MC45 responds with “Say command.”
2. Say “Next.” The MC45 responds with “Next.”
3. Windows Media starts to play next music file.

To pause or resume a playing music file:

1. Initiate **Voice Commander**. The MC45 responds with “Say command.”
2. Say “Pause” or “Resume.” The MC45 pauses or resumes the playing music.



NOTE User can say “Pause” or “Resume” to control music playing. The command “Resume” only works when Windows Media is running. The commands “Previous” and “Next” only work when playing all music files.

Voice Commander only supports media files with .mp3 and .wma format. Voice Commander supports the music files in Playlists or Media files synched by Active Sync, in My Documents and its subfolder or on the microSD card and its subfolders.

What can I say

To view the help information:

1. Initiate **Voice Commander**. The MC45 responds with “Say command.”
2. Say “What can I say.” The help file displays.

Alternatively tap **Menu > Help** to open the help file.

Goodbye

To exit the **Voice Commander** application, Say “Goodbye.” The MC45 responds with “Goodbye” and the application terminates.

Voice Commander can be also terminated manually by tapping **Menu > Exit**. Note that goodbye will not be accepted during voice digit dialing operation.



NOTE Voice Commander automatically terminates after 10 seconds of silence.

CHAPTER 5 USING WLAN

Introduction



NOTE The WLAN feature is only applicable for the MC4597.

WLANS allow the MC45 to communicate wirelessly inside a building. Before using the MC45 on a WLAN, the facility must be set up with the required hardware to run the WLAN (sometimes known as infrastructure). The infrastructure and the MC45 must both be properly configured to enable this communication.

Refer to the documentation provided with the infrastructure (access points (APs), access ports, switches, Radius servers, etc.) for instructions on how to set up the infrastructure.

Once you have set up the infrastructure to enforce your chosen WLAN security scheme, use the Fusion or Wireless Zero Config (WZC) software to configure the MC45 to match.

Fusion Overview

The Fusion software contains applications with which to create wireless profiles. Each profile specifies the security parameters to use for connecting to a particular WLAN as identified by its ESSID. The Fusion software also allows the user to control which profile out of a set of profiles is used to connect. Other Fusion applications allow the user to monitor the status of the current WLAN connection and to invoke diagnostic tools for troubleshooting.

To access Fusion, tap the **Start** >  **> Wireless Launcher**.

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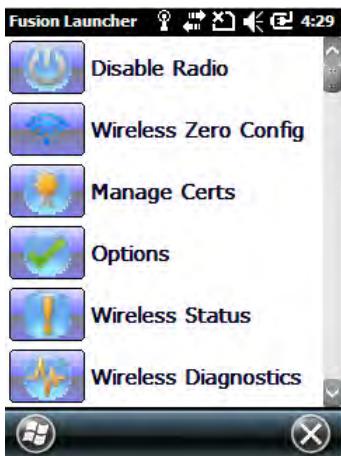


Figure 5-1 Fusion Launcher Window

Refer to the *Wireless Fusion Enterprise Mobility Suite User Guide for Version 3.xx* for detailed information on using and configuring Fusion.

To access the on-device Fusion Help tap **Start** > > **Fusion Help**.

Connecting to the Internet

To connect to the Internet on a WLAN when using Fusion, ensure that the network card settings is set to Internet:

1. Ensure Fusion is enabled and a profile is configured.
2. Tap **Start** > **Settings** > **Connections** > **WLAN**.
3. In the **My network card Connects to** drop-down list, select **The Internet**.
4. Tap **OK**.

Wireless Zero Config Overview

WZC is a Microsoft wireless connection management utility that dynamically selects a wireless network to connect to based on a user's preferences and various default settings.

Switching Between Fusion and WZC

To switch from Fusion to WZC:

1. Tap the **Start** > > **Wireless Launcher** > **Options**.
2. Select **WLAN Management** from the drop-down list.
3. Select **Microsoft Manages WLAN** radio button.
4. Tap **Save**.
5. Tap **OK**.
6. Perform a reset.