

Getting Started Guide

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Mercury Functional Testing for Wireless

Getting Started Guide Version 8.3

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Mercury Functional Testing for Wireless Getting Started Guide, Version 8.3

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Introduction

This document tells you how to install Mercury Functional Testing for Wireless and use it to control and test a Symbian OS based smartphone or Windows Mobile device.

This document does not describe all of the Mercury Functional Testing for Wireless features, but gives you an introduction to what Mercury Functional Testing for Wireless can do, how you use Mercury Functional Testing for Wireless, and how you set up devices to be controlled by Mercury Functional Testing for Wireless. You can then read other Mercury Functional Testing for Wireless documentation, such as the installation guide and online help, to learn more.

Mercury Functional Testing for Wireless Overview

Mercury Functional Testing for Wireless is a Windows application that enables you to control and test Symbian OS-based smartphone and Windows Mobile devices.

Mercury Functional Testing for Wireless requires you to install some agent software on devices that you want to test. Mercury Functional Testing for Wireless provides you with a file that you need to install and run on the device. There are different versions of the file for different device models. This guide shows you how to install and run the software on a Nokia 6630 device.

Requirements and Assumptions

To keep procedures as simple as possible for a new Mercury Functional Testing for Wireless user, this guide makes several assumptions in addition to the usual Mercury Functional Testing for Wireless requirements. For example, this guide assumes that you are familiar with Bluetooth smartphone devices and do not need instructions for enabling Bluetooth and making a device visible to other devices. The Mercury Functional Testing for Wireless Installation Guide provides full procedures, so you can refer to that document for a particular task, if required.

Computer Hardware and	Mercury Functional Testing for Wireless requires Microsoft Windows 2000 or Microsoft Windows XP Professional.
Software	You must log in using an account with administrator rights to run the Mercury Functional Testing for Wireless installation.
	The computer needs 20Mb of available disk space for the Mercury Functional Testing for Wireless installation. Further disk space may be required for event logging and screen captures.
	The computer needs a 16Mb video adaptor, a minimum resolution of 1280x1084, and 32 bit colour. Do not use large fonts.
	For the purposes of this guide, please use a system that has no previous installation of this software, and no smartphone PC suites.
Connectivity	Mercury Functional Testing for Wireless can connect to devices using Bluetooth, Infrared, USB, and serial cable connections.
	Mercury recommends that you use TDK Systems Bluetooth, and that you set up Bluetooth before installing Mercury Functional Testing for Wireless.
	For the purposes of this guide, please set up TDK Systems Bluetooth on your computer, as described by its documentation.
	There is one non-default Bluetooth setting that you need to configure for Mercury Functional Testing for Wireless, and this guide explains what you need to do.
Smartphone	Mercury Functional Testing for Wireless currently supports the following:
Smartphone devices	Mercury Functional Testing for Wireless currently supports the following: Symbian OS
Smartphone devices	 Mercury Functional Testing for Wireless currently supports the following: Symbian OS S60 2.6 - Nokia 6260, 6630, 6680, 6681, 6670, 3230, 7610
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Getting Started

This guide will help you:

- 1. Configure the non-default Bluetooth setting that Mercury Functional Testing for Wireless requires.
- 2. Use Bluetooth to pair your computer with the device.
- 3. Install Mercury Functional Testing for Wireless on a computer.
- 4. Start Mercury Functional Testing for Wireless on the computer.
- 5. Install agent software on a Series 60 device that you want to control.
- 6. Start the agent software on the device.
- 7. Understand the main features of the Mercury Functional Testing for Wireless application.

It will then tell you how to use Mercury Functional Testing for Wireless to:

- 1. Connect to a device
- 2. Select a target device
- 3. View and control applications on the target device

Finally, this guide will refer you to other documentation for more detailed information about Mercury Functional Testing for Wireless and related components.

Configuring Bluetooth for Mercury Functional Testing for Wireless

This guide assumes that you have installed TDK Systems Bluetooth on the system that you are going to use for Mercury Functional Testing for Wireless. There is one setting that you need to change from its default value before you install Mercury Functional Testing for Wireless, as follows:

1. Right-click the Bluetooth icon on the desktop taskbar, and select Advanced Configuration.

Explore My Bluetooth Place Bluetooth Setup Wizard	5	
Advanced Configuration		
Applications	•	
Quick Connect	•	
Stop the TDK Bluetooth device		
	1	17:0

- 2. Go to the Local Services tab of the configuration dialog box.
- 3. Select Bluetooth Serial Port from the list of services, and click Properties....

Service Name	Startup	Secure Connection	COM Port
udio Gateway	Auto	Not Required	
eadset	Auto	Not Required	
M Synchronization	Auto	Required	
эх	Manu	Required	
le Transfer	Auto	Required	
M Item Transfer	Auto	Not Required	
ial-up Networking	Manu	Required	
etwork Access	Auto	Required	
uetooth Serial Port	Manu	Required	COM3
Properties		Add Serial Service	Delete

4. On the Properties dialog, make sure that the Startup Automatically option is not selected.

Bluetooth Properties	<u>? ×</u>
General Notifications	1
Bluetooth Serial Port	
🕅 Startup Automatically 🔽	Secure Connection
COM Port: COM3	
OKCa	ncel Apply

- 5. Click OK to save the properties.
- 6. Click **OK** on the Configuration dialog.

If the **Startup Automatically** option is selected when Mercury Functional Testing for Wireless runs, Mercury Functional Testing for Wireless will prompt you for permission to change the setting to manual, and then ask you to reboot your computer. Mercury Functional Testing for Wireless cannot handle connections with devices correctly if you do not clear the **Startup Automatically** option.

Using Bluetooth to Pair Your PC with the Device

Pair your computer and the device, as follows:

- 1. On your computer, use Windows Explorer to explore My Bluetooth Places\Entire Bluetooth Neighborhood.
- 2. Right-click on your Series 60 device and select Pair Device from the popup menu.



3. The Bluetooth PIN Code Request screen appears, requiring you to specify a PIN code.

Before a connection can be above must be "paired."	established, this compu	ter and the device		
	Before a connection can be established, this computer and the device above must be "paired."			
The Bluetooth pairing procedure creates a secret key that is used in all future connections between these two devices to establish identity and encrypt the data that these devices exchange.				
To create the paired relation	ship, enter the PIN code	and click OK.		
Bluetooth PIN Code:	****			
	-			
	The Bluetooth pairing proce future connections between encrypt the data that these To create the paired relation Bluetooth PIN Code: OK	The Bluetooth pairing procedure creates a secret key future connections between these two devices to es encrypt the data that these devices exchange. To create the paired relationship, enter the PIN code Bluetooth PIN Code:		

- 4. Specify a PIN code and click OK.
- 5. The Series 60 device prompts you to specify the PIN code too. Do so, and the pairing is complete.

Your device is now ready to accept Bluetooth connections from your computer.

Installing Mercury Functional Testing for Wireless on a Computer

To install Mercury Functional Testing for Wireless:

- 1. Choose a computer that meets the requirements of Mercury Functional Testing for Wireless, with Bluetooth services.
- 2. Login to an account with administrator rights.
- 3. Use Windows Explorer to find and run the Mercury Functional Testing for Wireless setup.exe.



4. Work through the installation procedure, accepting the license agreement and all default options, and restart the computer when prompted.

🐻 Setup - Mercury Functional Testing for Wireless	
License Agreement Please read the following important information before continuing.	Ì
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.	
SHRINK-WRAP/CLICK-WRAP LICENSE AGREEMENT BY OPENING THIS PACKAGING, INDICATING YOUR ACCEPTANCE OF THE FOLLOWING TERMS (SELECTING "AGREED", "YES" OR OTHERWISE) OR BY INSTALLING, COPYING, OR OTHERWISE USING MERCURY INTERACTIVE CORPORATION AND/OR ITS AFFILIATES' ("MERCURY") SOFTWARE AND/OR ANY OF ITS LICENSORS' SOFTWARE AS PROVIDED HEREUNDER (COLLECTIVELY "SOFTWARE") AND THE UPDATES THERETO, YOU AS LICENSEE ("YOU") AGREE TO BE BOUND BY THIS SHRINK-WRAP/CLICK- WRAP LICENSE AGREEMENT ("AGREEMENT"). IF YOU DO NOT AGREE TO THESE TERMS, DO NOT INSTALL OR USE THE SOFTWARE AND RETURN	
 I accept the agreement I do not accept the agreement 	
<pre></pre>	ancel

🐻 Setup - Mercury Functional Testing for Wireless 📃 🗖 🔀		
Select Destination Location Where should Mercury Functional Testing for Wireless be installed?		
Setup will install Mercury Functional Testing for Wireless into the following folder.		
To continue, click Next. If you would like to select a different folder, click Browse.		
C:\Program Files\Mercury\Mercury_Functional_Testing Browse		
At least 44.5 MB of free disk space is required.		
< Back Next > Cancel		

🐻 Setup - Mercury Functional Testing for Wireless 📃 🗖 🔀
Select Additional Tasks Which additional tasks should be performed?
Select the additional tasks you would like Setup to perform while installing Mercury Functional Testing for Wireless, then click Next. Additional icons: ♥ Create a desktop icon ■ Create a Quick Launch icon
< Back Next > Cancel

🐻 Setup - Mercury Functional Testing for Wireless 📃 🗖	×
Select Start Menu Folder Where should Setup place the program's shortcuts?	2
Setup will create the program's shortcuts in the following Start Menu folder.	
To continue, click Next. If you would like to select a different folder, click Browse.	
Mercury\Mercury Functional Testing for Wireless Browse	
k}	
< Back Next > Cancel	

Setup - Mercury Functional Testing for Wireless	. 🗆 🗙
Ready to Install Setup is now ready to begin installing Mercury Functional Testing for Wireless on your computer.	
Click Install to continue with the installation, or click Back if you want to review or change any settings.	
Destination location: C:\Program Files\Mercury\Mercury_Functional_Testing	<u>~</u>
Start Menu folder: Mercury\Mercury Functional Testing for Wireless	
Additional tasks: Create a desktop icon	
< Back Instru	Cancel



After you install Mercury Functional Testing for Wireless, the Mercury Functional Testing for Wireless icon papears in the Start menu and as a Desktop shortcut.

Mercury Functional Testing for Wireless automatically installs m-Router, which is the component that enables connectivity between Mercury Functional Testing for Wireless and the devices it is to test. The m-Router icon 🖳 appears in the system tray and as a Desktop shortcut.

Starting Mercury Functional Testing for Wireless on a Computer

To start Mercury Functional Testing for Wireless, use its icon, its Desktop shortcut, or select Start > Programs > Mercury > Mercury Functional Testing for Wireless.

The Mercury Functional Testing for Wireless application appears and automatically starts searching for devices. It should detect and display your Series 60 device, along with any other Bluetooth devices within range.



Note: If you did not <u>configure Bluetooth</u> correctly, you will see a dialog box asking you whether to set a Bluetooth startup option and reboot the system. If so, click **Yes** and wait for the system to reboot before starting Mercury Functional Testing for Wireless again and resuming this procedure.

Although Mercury Functional Testing for Wireless can detect and display your Series 60 device, you cannot connect to it yet because you need to install and run some software on the device, as described in the following sections.

If Mercury Functional Testing for Wireless does not detect your device, make sure the device is switched on and that Bluetooth is enabled and set to make the device visible to other devices. Then right-click on the Mercury Functional Testing for Wireless Known Devices panel and select Discover Bluetooth Devices from the popup menu.

P Mercury QuickTest for Wireless Dashboard		
Devices Settings Help		
This displays the list of devices currently known to QuickTest I	for Wireless.	
Name 🔺 🔛 Manufacturer 🔇 Bluetooth I	ld 🛛 😢 Status 👘 🕅 IMEI Number	🔒 Is Test Device ?
	N	
	Connect using Bluetooth	
	Start testing Enter	
	Reboot	
	Refresh List F5 Discover Bluetooth Devices F7	
<		>
Start testing Stop testing Clear all test dev	ices Connect Disconnect	Reboot Shutdown
Ready		

Installing Agent Software on a Smartphone device

The Mercury Functional Testing for Wireless installation provides a set of installation files for various models of smartphone devices. You need to copy the file for a Series 60 device to your device, and install it as follows:



 Use Windows Explorer to browse to the install folder that, by default, is created by the Mercury Functional Testing for Wireless installation in C:\Program Files\Mercury\Mercury_Functional_Testing\Install directory.

The folder contains a set of files to support different models of smartphone devices.

Right-click on the file appropriate to your device, and use the Send To - Bluetooth option to send the file to the device.

pols Help h C: Folders 🎯 C C ave\mrix\install	ັX ກ 📰• Size	▼ Type ▲	-□× c> Go Modi		
 p800_m-Test_all.sis series60_m-Test_all.sis series602_m-Test_all.sis series80_m-Test_all.sis 	457 KB Copen Edit Print Open With Add to Zip Add to series60_m-Test_all.zip 2/ip and E-Mail series60_m-Test	SIS File	07/0 07/0 07/0 07/0		
	Send To PGP Cut Copy Create Shortcut Delete	► 80 ► 31 C 00 M M M	uetooth ½ Floppy (A) esktop (create shortcut) ail Recipient y Documents	d NokiaN-Gage	L.

The process of sending the file to the device begins. The device prompts you to accept the incoming connection from your computer if the device has not been set to <u>automatically</u> <u>authorise connections</u> from your Mercury Functional Testing for Wireless system.



 $2. \quad \text{On the device, select Yes to accept the connection.}$

The file is copied into the device's Inbox, and the device prompts you to show the new item.

1. 19 02 - UK	2004
PM	2004 4
(line)	CAR AN
Humo	"S?"
1 new message	e 🚖
	Evi

3. Select Show to open the file.

The device recognises the file as an installation file, and starts saving it to the installer.



The device asks whether to proceed with an installation from an unknown supplier.

nstaller	(@)
 Bluetooth 	
Installation security warning. Unable verify supplier. Continue anywa	? to y?
۲ <u>ــــــــــــــــــــــــــــــــــــ</u>	

4. Select Yes to continue.

The device asks whether to install mTestAll.



5. Select Yes to start the installation.

The installation begins, and the device displays a progress bar and then confirms that the installation is complete.

6. Reboot the device.

The agent software is running on the device, making it ready to accept commands from Mercury Functional Testing for Wireless. You are now ready to begin using Mercury Functional Testing for Wireless.

Next Steps

If you have completed all of the sections in this getting started guide, then you should have a basic installation of Mercury Functional Testing for Wireless.

To get the most out of Mercury Functional Testing for Wireless as a testing tool for smartphone devices, Mercury recommends that you use it in conjunction with Mercury QuickTest Professional, which enables you to record and automate tests.

To learn more about Mercury Functional Testing for Wireless and the capabilities not covered in this getting started guide, see the Mercury Functional Testing for Wireless User Guide.