BlueStart Example Application using the MT8855A Class Library



Chapter 1 — Overview

1-1 What is BlueStart?

BlueStart is a simple application designed to help familiarize developers with the use of the MT8855 class library.

This chapter describes the installation process and explains how to prepare the Visual Studio project installed with the source files so that BlueStart can be compiled successfully.

Chapter 2 — Installation

2-1 Installing BlueStart

- **1.** Insert the product CD into the drive on the PC. The [MT8855A *Bluetooth* Audio Test Set] window displays automatically.
- 2. Click "BlueStart" in the contents list.
- 3. The BlueStart setup wizard displays as shown below. Click [Next>].

Welcome to the Blues	Start Setup Wizard	
The installer will guide you through th	e steps required to install BlueSt	art on your computer.
WARNING: This computer program i	s protected by copyright law and	international treaties.
WARNING: This computer program i Unauthorized duplication or distributi or criminal penalties, and will be pros	s protected by copyright law and on of this program, or any portion	international treaties. of it, may result in severe ci sihle under the law
WARNING: This computer program i Unauthorized duplication or distributi or criminal penalties, and will be pros	s protected by copyright law and on of this program, or any portion ecuted to the maximum extent po	international treaties. of it, may result in severe civil ssible under the law.

Figure 2-1. BlueStart Setup Wizard

The "Licence Agreement" dialog displays. Read the agreement and if you agree to the conditions, select "I Agree" and click [Next>].



Figure 2-2. License Agreement

A dialog displays asking the user to select whether to install the source files. Click "Include source files" and click [Next>].

🛃 BlueStart	
Source File Installation Options	ER .
Install source files?	
Include source files	
C Omit source files	
Cancel	< Back

Figure 2-3. Source File Installation Options

A dialog displays asking the user to specify the folder to which BlueStart will be installed. By default, BlueStart is installed to C:\Program Files\BlueStart. Click [Next>] to install to the default directory, or click [Browse...] to specify a different location for installation.

Cale at In atallation E	aldar	
Select Installation Fo	bider	
he installer will install BlueStart to	the following folder.	
o install in this folder, click "Next"	. To install to a different folder, ente	r it below or click "Browse".
Eolder:		
C:¥Program Files¥BlueStart¥		B <u>r</u> owse
		Disk Cost
Install BlueStart for yourself,	or for anyone who uses this com	<u>D</u> isk Cost
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Install BlueStart for yourself, © Everyone C Justme	or for anyone who uses this con	Disk Cost

Figure 2-4. Select Installation Folder

Click [Next>] at the "Confirm Installation" dialog to start the installation.

🖁 BlueStart			
Confirm Installation			
The installer is ready to install BlueStart o	on your computer.		
Click "Next" to start the installation.			
	Canaal	/ Daak	

Figure 2-5. Confirm Installation

The progress of the installation is shown in the dialog below.

🛃 BlueStart			
Installing BlueStart			
BlueStart is being installed.			
Please wait			-
	Cancel	< <u>B</u> ack	<u>N</u> ext >

Figure 2-6. Installing BlueStart

The dialog shown below displays when the installation is complete.

🗒 BlueStart			_ 🗆 🛛
Installation Complete			
BlueStart has been successfully installed.			
Click "Close" to exit.			
Please use Windows Update to check for	r any critical upda	tes to the .NET Fram	iework.
	Cancel	< <u>B</u> ack	Close

Figure 2-7. Installation Complete

Before running BlueStart:
Turn on the MT8855A and connect it to a USB port on the PC.
Connect an A2DP headset, or similar device, to the line-in sockets on the MT8855A.
Configure the headset to be discoverable by a *Bluetooth* inquiry.

Chapter 3 — Source Files

3-1 Using the BlueStart Source Files

The following sections of the document explain how to use the source files to adapt and rebuild BlueStart as required.

Note It is assumed that the user has a copy of Visual Studio 2005 (or later) installed.

The BlueStart source files are installed to [c:\Program Files\BlueStart\BlueStart Source Files].

- 1. Open [c:\Program Files\BlueStart\BlueStart Source Files].
- 2. Double-click "BlueStart.vbproj" to open the project in Visual Studio.
- 3. Double-click "My Project" in the Solution Explorer and select the "References" tab.
- 4. Locate the "MT8855" reference in [c:\Program Files\BlueStart].

Start	
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bug	References: Unused References Reference Paths
erences	Reference Name Type Vers Copy Local Path
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	Imported namespaces:
	Microsoft.VisualBasic Add User Import
	Microsoft VisuaBasic System System.Collections System.Collections System.Collections.Generic
	System Data System Diagnostics Anntsu

Figure 3-1. Reference File

Note If BlueStart was installed to a location other than [c:\Program Files], the reference to the class library will not be valid and there will be errors in the error list. In this case, remove the reference to MT8855, click "Add..." and create a reference to the correct location.

5. Assuming that BlueStart will initially be run with the Visual Studio debugger, ensure that Debug mode is selected.

6. Build and execute the project.



Figure 3-2. Missing Module

The project will not execute correctly (as shown above) because an essential file, "UsbDriver.dll", is not handled automatically by Visual Studio. This file must now be copied into the project manually.

7. Copy the "UsbDriver.dll" from [c:\Program Files\BlueStart] to [c:\Program Files\BlueStart\BlueStart\BlueStart Source Files\bin\Debug].

Note If the project is subsequently built in "Release" mode, a release folder is created in BlueStart Source Files\bin. "UsbDriver.dll" must also be copied to that folder.

- 8. Check that the equipment is correctly configured:
 - Connect the MT8855A to a USB port on the PC.
 - Turn on the MT8855A.
 - Connect an A2DP headset, or similar device, to the line-in sockets on the MT8855A.
 - Configure the headset to be discoverable by a *Bluetooth* inquiry.

9. Build and run the project.

When the program is built and executed, it connects to the MT8855A, establishes a *Bluetooth* connection to the DUT and performs measurements. Typical output is shown below.

Figure 3-3. BlueStart Output

Note Further information on using the MT8855 class library to control the MT8855A can be found in the Help file.

Chapter 4 — Help Files

4-1 Viewing the Help File

The help file, "MT8855A Class Library Help.chm", is installed in the BlueStart folder. It can be opened by double-clicking the desktop icon or selecting Start > Anritsu > MT8855A Class Library Help.

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Hide Locate Back Forward Stop Refresh Home Prim	nt Options
Contents Index Search Introduction to the MT8855 Class Library Image: Setting up a VB.NET Project Image: Setting up a VB.NET Project	Hi Expand All Code: All MT8855A Audio Test Set Class Library Introduction to the MT8855 Class Library Send Feedback Welcome to the Anritsu MT8855 Audio Test Set Class Library help documentation. The MT8855 Class Library provides the means by which a user's application program can access all the features of the test set (and is, in fact, the basis of the supplied BlueAudio application). Setting up a VB.NET Project describes how to create a new project to control a test set using the MT8855 Class Library. The Example Program introduces a series of topics that describe the basic steps needed to create an application to control the test set. The individual example snippets can be pasted into a Visual Basic program and adapted as required. If Note: The entire program from which the code examples are taken, BlueStart, is provided as a Visual Studio project, which may be opened in Visual Studio 2005 or later editions, or in Visual Basic 2005 Express or later editions. Discover What's Possible Send comments on this topic to Send feedback to Anritsu

Figure 4-1. Class Library Help

When viewed on the "Contents" tab, the Help is divided into two sections:

- "Introduction to the MT8855 Class Library".
- The section is a basic introduction to controlling the test set using the class library. It includes BlueStart programming examples.
- "Anritsu.MMD.MT8855x.TestSet Namespace". This section contains detailed information on the class library.

4-2 Help File Troubleshooting

If the right-side Help frame states that "Navigation to the website was canceled", the Help file content is being blocked. The most likely reason for this is that the help file was opened from a network drive.

Following a security update by Microsoft in 2005 it may not be possible to view the content of CHM help files from a network drive.

<u>/inritsu</u>

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