



Software Release Notes

For Wavelink Studio EDGE 1.0, Patch 1

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INTRODUCTION

Wavelink Studio EDGE builds upon the existing Studio product line and allows customers to migrate to new technology without sacrificing their investment in legacy devices. The new product components and enhancements included in Studio EDGE are:

- Graphical application designer (Studio EDGE Designer)
- Support for J2EE servers including IBM Websphere, BEA WebLogic, and Tomcat.
- Support for casually-connected and batch applications.
- Integration of Web-based content into the wireless application.
- Backwards-compatibility with previous versions of Wavelink Studio
- Easy client portability to new devices based on new client architecture
- XML-based application definitions.

In addition, Studio EDGE is compatible with existing deployments of Wavelink Studio and offers customers a migration path from older versions, enabling them to take advantage of the new features in Studio EDGE for new application rollouts, while supporting existing Studio applications from a single client.

Components Included with Studio EDGE, Version 1.0, Patch 1

The following components are included with the Studio EDGE installation:

- Designer, version 1.0.1. This is the graphical application designer used to write Studio EDGE applications.
- Tomcat server, version 4.1.24. The Tomcat Web application server is a test server that you can use to test your applications by connecting from the DOS or CE emulators, or by connecting from mobile devices loaded with the Studio Client. Application deployment to the Tomcat server is automatic.
- DOS Emulator, version 5.2.4.27. This emulator runs DOS-based Studio EDGE applications using the Tomcat server.
- WinCE Emulator, version 5.2.4.30. This emulator runs Windows CE-based Studio EDGE applications using the Tomcat server.
- Web Console, version 1.0.1. This interface provides licensing functions, logging functions, and information about sessions and deployable applications in a J2EE application server environment, including Tomcat. Configurable parameters such as the session timeout can also be set using the Web Console.

Note: To run Studio EDGE applications, you must load the Studio Client on the mobile device. Studio Clients supported in EDGE are versions 5.2.4.30 (Windows CE) or higher and 5.2.4.27 (DOS) or higher. The Studio Clients are hardware-specific. To download Studio Clients for a particular device, visit <http://www.wavelink.com/downloads/Default.aspx>.

New Additions and Enhancements

Wavelink Studio EDGE version 1.0, Patch 1 contains the following new features and enhancements:

- Performance enhancements and bug fixes.
- Inclusion of the format method in the Client API to support special formatting of data for presentation on the mobile device.
- Inclusion of a new property for Windows CE text field controls to define the maximum input length.
- Inclusion of a new property for Windows CE text field controls to align display text.

Important notes about this release

1. Software Installation, Upgrades or Uninstalls

Before starting an installation or upgrade of Studio EDGE Designer software, always ensure that the host system has the following components or features:

- a. Java™ 2 Runtime Environment (JRE), version 1.3.1_03 or better
The JRE is included in the installation, and is intended for use on Windows NT 4.0 with Service Pack 5, Windows 2000, or Windows XP operating systems running on Intel hardware.
Note: It is recommended that you use the JRE included with the Designer. However, you can use your own JRE by performing a custom install and excluding the built-in version that is bundled with the Designer. In addition, this requires that you manually change certain settings. Contact Wavelink Technical Support at 1 (888) 699-WAVE for more information.
- b. A Pentium 166MHz or faster processor
- c. 64 MB of physical RAM (128 MB of RAM recommended)
- d. 250 MB of available hard disk space

2. Wavelink Studio EDGE, Version 1.0 includes a single-user demonstration license.

If you try to reconnect after an abnormal session termination, the emulator displays the following message “User limit reached.” In this event, you must stop and restart Tomcat (use the Stop/Start Server commands in the **Build** menu) to terminate the previous session. Otherwise, the session will not expire until the session timeout period ends.

3. Sample Applications

Several sample applications are included with the Studio EDGE Designer that you can use as a starting point for your own applications or as a resource for sample code. Summary information about these applications is included here. For more information and links to sample code, see the *Sample Applications* subheading under the Programmer’s Guide in the online Help.

Hello. The “Hello” application is a simple application that introduces the Designer and mirrors the application you create in *Developing Your First Wavelink Application* in the Programmer’s Guide. This application contains examples of the following Designer features and elements: string tokens, simple client events, simple server events, and multiple device classes.

GiftReg. The “GiftReg” application is a wedding registry application that allows the user to scan items to enter into a registry and store the information to a local file on the client. This program is a batch application that provides examples of the use of integrated audio (.wav files), localization, scanners, magnetic stripe readers (MSRs), and consumer-friendly navigation features such as hotspots, home buttons, help buttons.

Note: To enter valid product IDs in the GiftReg app, you must enter items listed in the items.csv file (such as A001, A002, etc.). To access this file, open the GiftReg project, click the Data Files branch in the Project Explorer, and open items.csv.

CCount. The “CCount” application is a basic cycle count application that introduces client-side processing and the casual connectivity capabilities of Wavelink Studio EDGE. This application allows a user to scan multiple items. For each item scanned, conditional logic is used to either immediately send the scanned data to the server or store it in a local data file (a .dat file). The application sends data to the server only when the mobile device is currently in range. If the mobile device is out of range, the user can continue to scan items, storing input in the data file. When the user exits, any buffered data in the data file is automatically posted to the server as well. This application demonstrates the use of numerous Designer elements and features, including support for casual connectivity, barcode configurations, controlling device input (disabling the keypad), server events, the Server API, client events, the Client API, and using servlets running on a Webserver.

Note: To enter a valid location in CCount, you must enter L123456 at the location prompt.

Receiver. The “Receiver” application is a simple package receipt and delivery program that allows a user to scan incoming packages, timestamp the scanned data, and store that information on the server; then the application allows the user to access that same information for package delivery. In addition, it provides the user with the ability to query package information and the package status. This application demonstrates the use of numerous Designer elements and features, including multiple device classes, multiple page forms, string tables, server events, the Server API, client events, and the Client API.

Golf. The “Golf” application is a score-keeping application that displays information about each hole on a selected golf course, allows the user to enter their score, and tallies the results. This program is a batch application that demonstrates the use of client-side logic, including file I/O based on the use of local CSV files for data storage. It also demonstrates the use of consumer-friendly navigation features such as hotspots, home buttons, and help buttons.

INSTALLATION OF THIS RELEASE

If you are upgrading from the Beta version of the Designer to this release:

1. Perform an uninstall of the existing Studio EDGE software.
2. Manually delete all installation directories.
3. Install Studio EDGE, v. 1.0, Patch 1 (as instructed below).

If you are upgrading from the version 1.0 of the Designer to this release:

- Install Studio EDGE, v. 1.0, Patch 1 (as instructed below).

If you are performing a new/first time Studio EDGE v. 1.0, Patch 1 installation:

1. Locate and run the Studio EDGE installation file, named `StudioEdge.exe`.
2. In the *InstallShield Wizard* dialog box, click `Next`.
3. After reading the license agreement and agreeing to its terms, click `Yes`.
4. When prompted for an installation directory, click `Next` to accept the default installation folder, `C:\Program Files\Wavelink`. To navigate to a different installation folder, click `Browse`, and navigate to select a desired directory. Once you select a folder, click `Next`.
5. The setup program prompts you to select a setup type.
6. When prompted to select an installation setup, enable the `Typical` checkbox (recommended) and click `Next`. The setup program installs Wavelink Studio EDGE on your system.
7. After the installation is complete, click `Finish`.

KNOWN ISSUES

The 4 digit # in the first column in the table below is a permanent reference number for the problem, and also corresponds to an internal reference #.

For problems that apply to a subset of EDGE clients or only to the Designer itself, the relevant component is enclosed in square brackets ([]) and appears in bold text.

Ref. #	Problem / Symptoms	Workaround / Notes
3298	[Designer] Find Next shortcut command (F3) misses valid matches.	Use Ctl-F or the Find menu command instead.
3300	[Designer] Button text appears to be disabled.	This bug does not affect application performance.
3331	[Designer] The Save icon is not enabled when you modify a control property.	Click on the current form to set focus; this enables the Save icon.
3339	[Designer] Copy All command copies all controls on a form including the controls that are on different pages in the form.	
3345	[Windows CE clients] Client cannot left- or right-align text on a command button control (always centered).	
3947	Elapsed time before an http timeout is too long. This can affect application initialization, any server event, or the use of http or httpGetFile methods.	
4008	[Windows CE clients] Client cannot obtain returned value of text from a combo box or list box control.	These controls currently return only the index value of the selected option.
4041	No OnScan events (including the form's OnScan event) are generated when all the text field controls on a form are disabled. A text field on a form receives scanned data even when it does not have the focus.	
4183	Event handler data (a configured action, script, or Java code) is lost after deleting a control. This error can occur when you are using multiple device classes in an application, and you delete a shared event. A shared event refers to a single form event associated with two or more controls with matching names that reside in two or more device classes.	When programming for multiple device classes, ensure that you save your source code before you delete a control.
4203	[WinCE Emulator] For legacy applications (3.6, 4.x) running on the emulator, the top line is missing on the text field control. This can occur when the fontsize is close to the control height.	This issue occurs in rare situations; it affects the emulator only.
4278	Cannot set initial properties for background/foreground colors for forms or for the application.	Not yet implemented.

4316	[DOS clients] For legacy applications, display irregularities occur on DOS devices when the message box (RFEError) is displayed on screen. Irregularities include missing message box border and/or short display timeout periods.	Use display timeouts under 100 seconds to try to correct problem.
4411	Mismatch between the line breaks (i.e., when word- or character-wrapping) for text in the label control as it appears in the Designer vs. the line breaks as they appear on the client.	
4426	Server-side string table substitutions use Designer default locale instead of the default locale (if any) specified in the JVM.	
4440	[WinCE Emulator] On the emulator, the OnClick event for the hotspot control causes the Designer to flicker.	
4484	[DOS clients, DOS Emulator] On the client or emulator, you cannot set CAPSLOCK mode (keyMode property)."	
4512	Cannot set all caps on text field controls (corresponds to the keyMode property).	Use default setting (normal keys).
4531	[DOS clients] Text wordwraps to next line if text is longer than the control's width and part of control is off the screen display.	
4552	Irregularities when form navigation actions or methods are invoked within the OnUnload event for a form. Irregularities include the new form does not appear or the application exits inappropriately.	Use other events for form navigation.
4553	[WinCE Emulator] In the emulator, application generates an OnBlur event when you switch focus to the Scan Emulator. Consequently, the OnBlur and OnScan events occur out of sequence.	
4561	[DOS clients] Cannot turn character wrapping on or off.	
4567	No activity indicator for the client when an http request is in progress.	This issue does not affect application performance.
4569	[DOS Emulator] Screen size and skin is not configurable on the emulator.	
4602	Designer does not prevent you from assigning a variable (variableRef property) to static label controls.	Ensure that any label controls using the variableRef property are not configured as static labels (static property).
4605	[Windows CE clients] Text fields without a specified barcode configuration use the last barcode configuration previously specified in the application.	Specify a default barcode configuration for each text field.
4617	[Windows CE clients] Function keys aren't available for use in the application.	

4624	[DOS Emulator] You cannot restrict the type of barcodes scanned.	
4625	Setting minimum and maximum barcode length has no effect.	
4646	Focus does not automatically advance to the next control after using the callForm action in an OnBlur event. Instead, focus returns to the same control.	As a workaround, you can programatically set focus to the correct control using the setFocus method. Use setFocus in a script for the OnBlur event handler after the callForm invocation.
4661	[Symbol 6840] The form caching mechanism fails.	Set the cache limit to a number higher than the number of forms in the application or have the forms preload which will make them ineligible for form caching.
4689	[Windows CE clients, WinCE Emulator] When a DOS application runs on the WinCE Emulator and the SuppressEcho input mode is enabled, default text appears in the text field control. When the user enters input, default text remains in the text field.	
4698	[Windows CE clients, WinCE Emulator] Common signon dialog box not fully implemented for Studio 4.x applications.	
4699	[DOS clients, DOS Emulator] No common signon dialog box available for Studio 4.x applications	Create a signon screen for the application programmatically.
4707	[Windows CE clients, WinCE Emulator] The AutoDiscovery tab on the client disappears periodically, approximately every 30 seconds for about 10 seconds.	This tab is designed to disappear while the client is actively searching for hosts.
4708	[Windows CE Clients, WinCE Emulator] Some client configuration options available in older clients are not currently available through the client interface.	See the user guide for the specific client for procedures that allow you to customize these options.
4717	[Designer] When you rename a form from the Project Explorer, the file name of the form changes but the form's Name property does not change.	Change the Name property of the form in the Properties List rather than the filename of the form.
4721	[Windows CE clients, WinCE Emulator] Mismatch between default background colors as they appear on the CE clients vs. the WinCE Emulator.	
4726	[Windows CE clients, WinCE Emulator] Occasional failure of HTTP redirects after invoking the http or httpGetFile methods.	
4727	[Windows CE clients, WinCE Emulator] No hourglass appears to indicate processing activity during long http requests.	
4733	[Designer] Cannot rename a form after using an invalid form filename.	In the Project Explorer, remove the form from the project. Then manually delete the form file from the project.

4750	[Windows CE Clients, WinCE Emulator] When installing client software to the desktop in preparation for an ActiveSync installation, the new client software overwrites the previous client software in the ActiveSync program list.	
4759	[DOS Emulator] The following command keys are not programmable: PageUp, PageDown, all Shift+F<num> keys. In addition, the command key Shift+F10 returns the user to the Main form.	
4772	[Designer] When the Event Editor is in full screen mode, dialog boxes for configuration files (barcode configurations, sound configurations, etc.) cannot be moved in the Designer Window.	Restore the Event Editor to its default size by clicking the appropriate icon.
4779	[Windows CE clients, WinCE Emulator] Color and background colors do not appear for the calendar control until the user clicks on the control.	
4791	[Windows CE clients] Devices do not enter sleep mode when running an EDGE application. In addition, devices do not enter sleep mode after an RFInput invocation on a Studio 3.6 or 4.x application.	
4796	[Windows CE clients, WinCE Emulator] Center and right-aligned text displays as left-aligned text on text field controls in Windows CE clients. Also, for the Windows CE clients and the WinCE Emulator, the upper and lower lines of text field controls disappear when you center or right-align the text.	
4801	[Designer] Text alignment for specific controls does not conform to textAlign property as expected in the Designer. For buttons, text is always centered. For checkbox and text field controls, text is always left-aligned.	

ISSUES RESOLVED IN THIS RELEASE

The 4 digit # in the first column in the table below is a permanent reference number for the problem, and also corresponds to an internal reference #.

4604	You cannot specify a non-default fill character for a DOS text field.	As a temporary solution, use the default fill character.
4676	If you call a form (form2) from the OnLoad event of another form (form1), form1's screen is not painted when application control returns to it (after the invocation of form2 completes).	
4681	The firstRecord method fails after writing to a file.	Before using the firstRecord method, close and re-open the file.

DOCUMENTATION UPDATES

The following items are updates to the Wavelink Studio EDGE Users Guide included with this release:

- In *Chapter 14, Compilation and Deployment*, page 331, the note containing the text, “The Designer must be installed on the system hosting the server,” is incorrect and should be removed. In the online Help, this note appears under the heading, *Deploying the Application to a Device*.