Software Release Notes

Smart Printing Resource Kit
v10.07.009062

Overview

This resource kit release focuses on added functionality and enhancements for the Smart Printing Resource Kit. You use the Smart Printing Resource to create C# applications that run in Mono on PM43, PM43c, PM23c, PD43, PD43c, PC43t, PC43d, and PC23d printers.

Please refer to the online help provided with the Resource Kit for a comprehensive explanation of the API.

Release Notes for all versions after 10.05 are included in this document. Newer versions are listed above.

Release Notes for Version 10.07.009062

New Functionality

Several new elements have been added to existing classes, and some new classes have been added. This section briefly describes what has been added. See the Reference for details.

Ability to format text within text fields (EU Food Labeling EU 1169/2011 Support)

You may now format printed text with either bold or italic emphasis, down to the invidual character.

Cutter support

C# for Printers now supports the optional cutter accessory available with most of our printers.

Bi-directional Support for USBHost

You may now write to a device via the USBHost class. This means that, for example if you have a scanner capable of sending an image to the printer but its API requires acknowledgement, you may now send that acknowledgement back.

C# TextBox support for multiple delimiter and soft hyphen

In the TextBox class you may now specify multiple delimiters and a character to be used as a soft hyphen.

Use Zip archives to distribute and install apps

You may now place a Zip archive containing a C# app directly in the root folder of a USB flash drive, and it will install when the printer starts up. Previously you had to unpack the archive to the drive; now you simply place the .zip file on the drive. This will greatly simplify an end user's job to install an app.

Changed Functionality

> None.

Deprecated Functionality

> None.

Removed Functionality

> None

Fixed Issues

The following reported issues are fixed in SPRK v7. The symptom is described here; in each instance we have fixed the underlying cause of the symptom.

ID	Issue
15801	C# Render calls are stuck when using a font alias.
140113-000025	Label not printed after launching app.
140226-000013	Labels do not stop consistently at gap.
16486	Drawing.Render() does not update image buffer on web page.

Release Notes for Version 10.06.008223

New Functionality

Several new elements have been added to existing classes, and some new classes have been added. This section briefly describes what has been added. See the Reference for details.

Communication.Autohunt

New AddStream(NetworkStream) and RemoveStream(NetworkStream) methods allow network streams to participate in Autohunt.

A new adds a network stream to the Autohunt list.

Drawing.Barcode

A new Advanced field provides advanced options for certain symbologies.

A new ByteData property handles bar code text as an array of bytes to enable non-printing characters to be included in the bar code.

New FaultyDotAdjustLeft and FaultyDotAdjustRight properties set the bounds for automatically offsetting a bar code to avoid faulty print head dots.

A new WidthEnlargement property gets or sets magnification for the width of a bar code's bars.

Drawing.BarAdvanced

This new class provides advanced options for certain bar code symbologies.

Drawing.Barcode.BarText

A new CharacterEncoding property gets or sets the encoding for a bar code text text object.

Drawing.PrintControl

A PrintEventHandler delegate now enables a callback on completion of a batch.

A new Completed event fires on completion of a batch.

Changed Functionality

Batch Optimization Support

The PrintControl class now supports Batch Optimization for batches of 1.

Drawing

Multiple instances of Drawing class is now allowed.

The Export method now automatically calls Render in order to render image buffer up-to-date before exporting the PNG image.

The Render method now automatically clears the image buffer prior to rendering all objects.

Drawing.Barcode.BarText.Alignment Property

The Reference now provides a detailed explanation of how text alignment relates to the bar code symbol.

Deprecated Functionality

The following have been deprecated in v6.0 of the library. Use replacements as noted.

Note: deprecated items may be removed from the library at any time. You are strongly encouraged to update your applications immediately to use the replacement capability.

Drawing.Barcode

The WidthMagnification property is now deprecated. Use the new WidthEnlargement property instead.

Removed Functionality

Communication.Autohunt

An AddSocket method was accidentally provided in the v5.0 Resource Kit Reference. It had no function and reference to it has been removed.

Fixed Issues

The following reported issues are fixed in SPRK v6. The symptom is described here; in each instance we have fixed the underlying cause of the symptom.

Issues

ID	Issue
130903-000085	Batch printing from a background thread with UI updates in the primary thread causes a SIGSEGV error.
16251, 16335, 15761	Code 128 bar codes do not render correctly. PDF417 bar codes do not render correctly. Non-ASCII bytes cannot be used with bar codes.
16033	Calling Render() twice on the same drawing instance when one of its drawing objects has changed renders the changed object on top of the original version of the object.

Known Issues

The following are known issues. Where a workaround exists it is described here.

Issues

ID	Issue	Workaround
15935	PC-Series Icon model: Functions to control LEDs do not work.	None.
15669	Cannot capture TestFeedFailed status info when running	None.
16345	USBHost does not support writing to device	None.
16486	Drawing.Render() does'nt update image buffer on web page	None.
15936	UI.Canvas.Image.Size always returns -1,-1	None.
15951	UI.Canvas.Text.Width is reporting larger than visible width	None.
16052	C# app cannot read keypad after FP app has terminated	None.
16487	Adjusting Drawing.Width or Height does not take effect	None.

About Installing the Smart Printing Resource Kit

The Smart Printing Resource Kit v6 is provided as a .zip archive.

- Simply unzip it to the desired folder on your local PC to use it. You may overwrite the previous version or unzip to a different folder, depending on your needs.
- Remember to update the references to IntermecPrinter.dll in your applications.