



Mobile Label Printing with Pocket NiceLabel

White Paper

Bar code labeling software for Windows® CE and Pocket PC

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Executive Summary

Mobile label printing has become an integral part of inventory management and order tracking in almost any kind of industry. With the rise of sophisticated inventory management systems and the requirement of customers to better track their orders, companies increasingly deploy mobile label printing applications to monitor their flow of goods. In addition, deploying mobile label printing applications provides opportunities to improve service, reduce costs, and make business processes such as product warehousing, shipping, identification, and tracking more efficient.

Pocket NiceLabel is a software package for Windows CE Mobile Devices that offers mobile label printing for more than 900 thermal printers. Pocket NiceLabel is a module of the NiceLabel Suite edition, which is a powerful labeling software for desktop and enterprise-wide labeling applications.

Pocket NiceLabel does not require any programming skills to design labels for your Mobile Device. You can use Pocket NiceLabel to print labels in a mobile environment in the following three ways:

- Direct label printing to more than 900 thermal printers.
- Distributed (print server) label printing to any printer on your network.
- Print engine label printing using Pocket NiceEngine to control label printing functions in a separate application on a Windows CE device.

To learn more about Pocket NiceLabel see also the Pocket NiceLabel Quick Start Guide and Pocket PC Programming Guide available for download from the NiceLabel Web site at www.nicelabel.com.

Mobile Label Printing Challenge

Companies use mobile data collection and printing solutions to keep track of products and inventory. However, many times they struggle to find a label design and printing solution that combines ease-of-use and flexibility in a mobile printing environment. Companies want to streamline their label printing and look for solutions that enable both label printing from a desktop/ server computer and Windows CE Mobile Devices without going through the hassle of programming new applications for different application environments.

If you are looking for mobile label printing solutions, you might face the following questions:

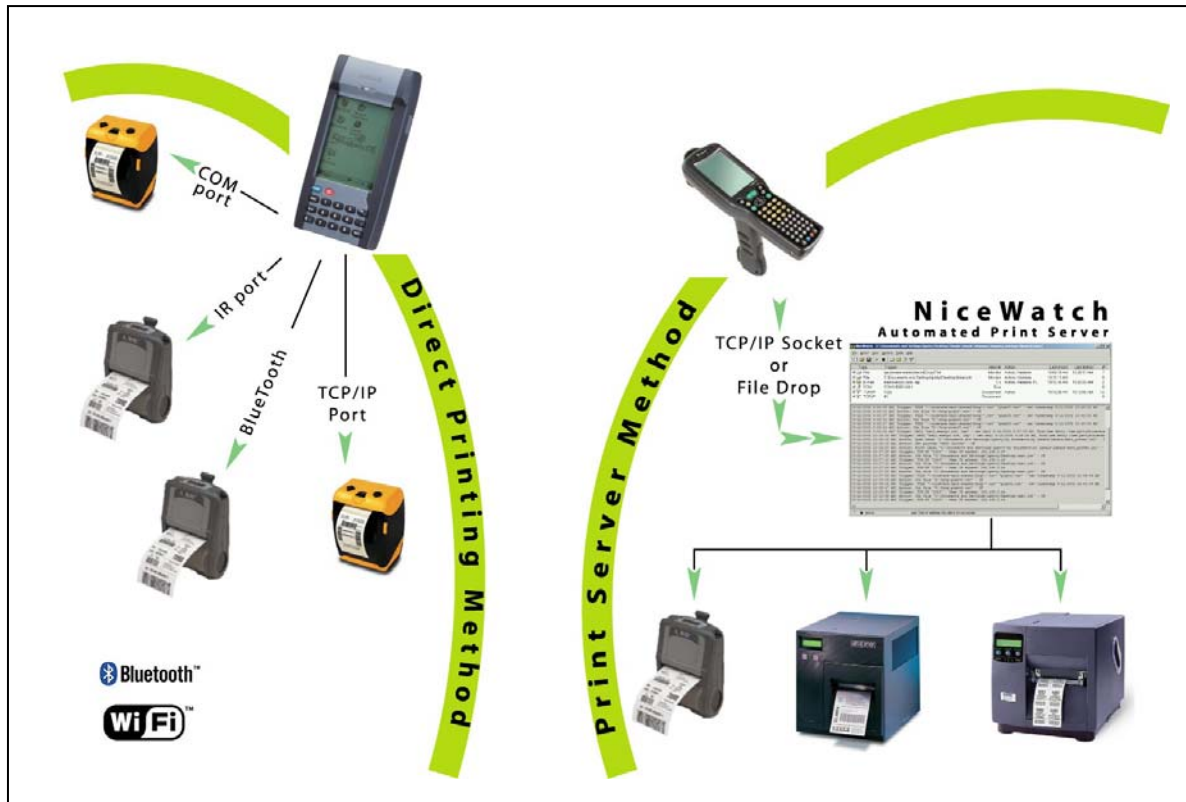
- Can I create one label that can print from both a desktop/ server computer and Windows CE device? Or, do I have to develop different labels for each environment?
- How easy is it to create labels for and print labels from a Windows CE Mobile Device? Do I need programming skills to do so?
- How complicated is it to collect and enter data into the label template and print the label with a Mobile Device? Operators in the field need an easy-to-use data entry interface with as least error potential as possible.

Label design and printing from a Windows desktop and server computer has become a relatively easy task to accomplish. However, Windows mobile operating systems are not the same as Windows desktop operating systems. There are no Windows printer drivers. Printing labels from Windows Mobile Devices is not as easy as printing labels from a desktop environment. Many applications on the market require programming skills to develop user interface and port communication for mobile label printing through COM, Infrared, Bluetooth or TCP/IP ports. All this adds complexity, inflexibility and cost to your needs of mobile label printing. Label design and use should be easy and not require additional cost or sophisticated programming skills. In addition, you want to print the labels to different printers either directly or through your network without creating a separate label for each printer model you have.

If you are an application developer, you want to embed label printing in your application that can print to more than one specific printer type. However, you do not want to spend the additional time and money to learn the native printer language of all the different thermal printers that your application should support. You look for an easy bolt-in solution to enable your application to print to any printer.

Mobile Label Printing Applications

Pocket NiceLabel offers three (3) types of label printing methods: direct, distributed (print server) and print engine printing method.



Mobile Printing Methods with Pocket NiceLabel

Direct Printing Method

With the Direct Printing Method you print labels directly from the Mobile Device that is connected to the printer. On your Mobile Device, you must select the port that connects the printer with your Mobile Device. You have five (5) port options for the direct printing method:

- COM port
- IrSIR port
- TCP/IP port
- Bluetooth
- LASP port

Using the direct printing method requires you to select the printer type at the time of label design and imposes some label design limitations. See the section **Label Design versus Label Printing**.

The figures below show examples of open label (.PNL) and form (.OFF) files that you can print with Pocket NiceLabel (left) or Pocket NiceForm (right).

Exported label (.PNL) file to Mobile Device:

Variable	Data
Prompt2	All
Prompt3	All
Prompt4	All
Prompt5	All

Print Label File with Pocket NiceLabel

Exported form (.OFF) file to Mobile Device:

Print Form File with Pocket NiceForm

Printing labels with Pocket NiceLabel, you can scan data into the variable fields (your Mobile Device must have a separate scanning software) and enter the data to the variable fields manually by tabbing the keyboard of your Mobile Device.

Printing labels with Pocket NiceForm is even easier than using Pocket NiceLabel. In addition to scanning data into the variable fields, you can link databases to the form (.OFF) file and use Combo Boxes (drop-down menus) to select the data you want to print. Printing labels with Pocket NiceForm simplifies data input, reduces data entry errors and accelerates label printing.

Distributed (Print Server) Printing Method

With the Distributed (Print Server) Printing Method you print labels from the Mobile Device to NiceWatch, which handles printing and enables selection of different printer drivers. Pocket NiceLabel becomes a client to NiceWatch, which is the automated label-printing server running on a PC or a server.

Pocket NiceLabel will output a print request that describes the label layout and the printing process, encode this information to a .JOB file using NiceCommands and send the .JOB file to a file trigger or a TCP/IP socket in NiceWatch. NiceWatch processes the .JOB file and prints the label to any available network printer.

Using the distributed (print server) printing method allows you to select the printer type and format at the time of printing versus at the time of label design. Because NiceLabel Pro is running on the print server at the same time as the labels are printed, there are no design limitations. You can use all the NiceLabel Pro functionalities, such as true type font for both fixed text objects and objects using variables.

If you want to use the distributed (print server) printing method, you can use either Pocket NiceLabel or Pocket NiceForm to select the data in the field you want to print from a printer on your network. However, using Pocket NiceForm is the recommended application because of its ease-of-use for the operator in the field.

To set up the distributed (print server) printing method, you need to do the following steps:

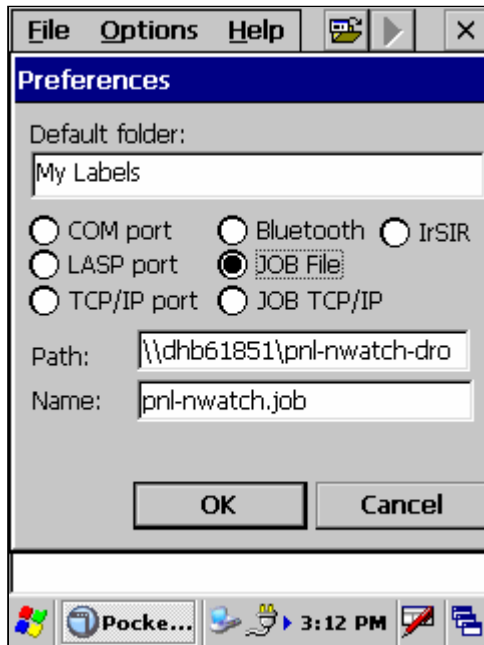
- Select the communication port of your Mobile Device and Print Server.
- Setup NiceWatch on your server or computer where the NiceLabel software is installed.
- Select the correct form (.OFF) file properties.

Selecting Communication Port for Distributed (Print Server) Printing Method

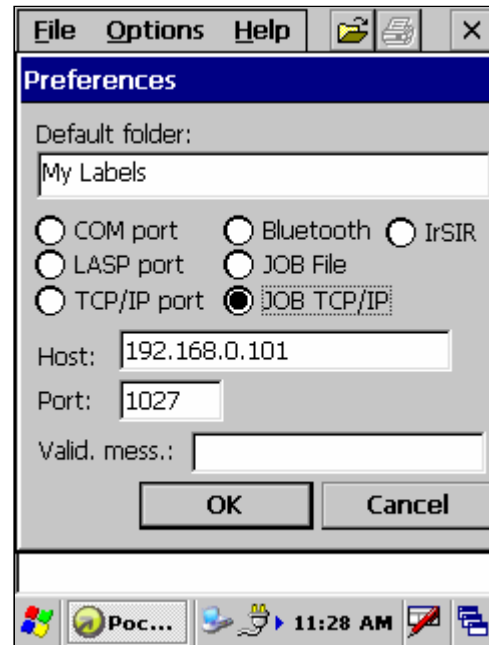
On your Mobile Device you have two (2) port options for the distributed (print server) printing method:

JOB file: A .JOB file specifies all the information required to print a label (label, data and printer). When you select the data with your Mobile Device and send the print job by tabbing the print button, NiceWatch detects the dropped file in a specified folder, processes the data and prints the label(s) from the NiceWatch printing server.

JOB TCP/IP: A TCP/IP trigger works similar to a JOB file trigger. The Mobile Device sends the job file to NiceWatch through TCP/IP. NiceWatch accepts the incoming file on a pre-defined TCP/IP port and processes the label printing on the NiceWatch printing server.



Distributed Printing: JOB File



Distributed Printing: JOB TCP/IP

Setting up NiceWatch Print Server

NiceWatch is a module of the NiceLabel Suite edition that monitors events and automatically starts label production when specific (trigger) events occur. Trigger events can occur through a trigger file, an email, TCP/IP socket connection or COM port activity. NiceWatch can watch unlimited number of events each with their own specified action. NiceWatch executes a pre-defined activity, such as label printing through a network printer, if one or more of such trigger events occur. You can use NiceWatch and start automatic label production from your network or your computer where the NiceLabel software is installed. If you want to print labels on a remote print server using your Mobile Device, you can set up NiceWatch with JOB file or TCP/IP triggers.

For a detailed discussion about NiceWatch, please see the NiceWatch User Guide available for download on the NiceLabel Web site at www.nicelabel.com.

Selecting Form (.OFF) File Properties

If you use a form to initiate label printing through the NiceWatch print server, you must setup the form properties with NiceForm on your desktop computer. Make sure that the information entered in the window form properties are the same as the provided information when you set up the communication ports between the Mobile Device and NiceWatch print server.

For a detailed discussion about selecting form (.OFF) file properties, please see the Pocket NiceLabel Quick Start Guide available for download on the NiceLabel Web site at www.nicelabel.com.

Print Engine Printing Method

The Pocket NiceEngine (PNE), short Print Engine, is a COM object (ActiveX server) that allows other applications on the Mobile Device to control label printing functions. Pocket NiceLabel offers a .DLL file that can be embedded into your application. You do not need to learn the native printer language (unique printer code) of the thermal printer you want to use for your application. You do not need to write an embedded printer code or communicate with the operating system's I/O. The Windows Mobile Device can print labels using Pocket NiceLabel as the print engine that will process opening of .LVR and .PNL files and printing of labels to printers on TCP/IP, IR, Bluetooth and COM (serial) ports. Pocket NiceEngine, which is embedded in Pocket NiceLabel, functions as an integrated print engine for any data collection application on your Mobile Device. Pocket NiceLabel's ActiveX Programming Interface (API) enables you to learn and deploy one interface for your mobile label printing application, giving your application the flexibility to print to more than 900 thermal printers.

The Pocket NiceEngine (PNE) with Pocket NiceForm also supports the distributed (print server) printing method. The print engine creates a .JOB file with specific label printing commands (NiceCommands) that is saved on the computer or server where NiceWatch is running. The NiceWatch print server executes the NiceCommands from the .JOB file and enables label printing to any printer on your network.

For more information about Pocket NiceEngine and ActiveX programming, see the Pocket PC Programming Guide available for download from the NiceLabel Web site at www.nicelabel.com.

Label Design versus Label Printing

The primary purpose of Pocket NiceLabel is reliable and fast mobile label printing. However, industrial label printing is in fact a two step process: First, you design a label and set up the print server configuration (if necessary). Second, you select data and print the label during production or in the warehouse. Before you start designing a label for your Mobile Device you must consider the following:

1. Printing method: Do you want to print the label to a thermal printer directly with the Mobile Device connected through a COM, LASP, IrSIR, Bluetooth or TCP/ IP port (direct printing method)? Or do you want to print the label through the NiceWatch print server (distributed printing method)?
2. Printing application: Do you want to print labels with Pocket NiceLabel using label (.PNL) files or do you want to print labels with Pocket NiceForm using form (.OFF) files. Pocket NiceForm is part of Pocket NiceLabel and is a user friendly data entry application to print labels.
3. Designing a label (.PNL) or data entry application form (.OFF file) on your desktop computer: You design label files with NiceLabel Pro and form files with NiceForm on your desktop computer. If you use the direct printing method and design label files with NiceLabel Pro, you have to consider certain requirements in order to print the labels in the

field. Those requirements do not apply if you use the distributed printing method with NiceWatch as the print server.

Designing a Label Template with NiceLabel Pro

You design a label with NiceLabel Pro on your desktop computer. For example, the following label uses text objects with fixed text and keyboard input variables, bar code object with keyboard input variable, text object with new date field and fixed picture object. You can export this file to your Mobile Device and print labels in the field.



NiceLabel Template Designed with NiceLabel Pro

If you want to print the label with your Mobile Device directly (**direct printing method**) using Pocket NiceLabel, consider the following label design requirements:

- Link only text and bar code objects to variables.
- Use only native (printer resident) fonts for all the variables on the label. Exporting to Pocket NiceLabel does not support variables in true type font unless you use NiceMemMaster to download true type fonts and graphics to your printer's internal memory to enhance printing performance for thermal printers. See Online Help of the NiceMemMaster module for more information.
- Use only printer internal counters on the label. Exporting to Pocket NiceLabel does not support NiceLabel variable counters.
- Select the printer you will print the labels with in the field at the time you design the label. The generated .PNL file only works with the selected printer because native language compliance is required at the time of label design.

Pocket NiceLabel supports the following functions:

- Concatenation
- Currency Exchange
- Date Addition
- Internal Printer Counters
- Internal Printer Clock (Date/ Time)
- EAN.UCC 128
- Linear
- Subset

Designing a Form with NiceForm

You can also create a form (.OFF) file from the label above, export the form to your Mobile Device and print labels using Pocket NiceForm.

For example, NiceForm offers you to connect your form to a database and to use drop down menus (combo boxes) to make data entry as easy as possible.

Pocket NiceForm supports the following features and functions:

- Text, Button, Edit Field, Memo Field
- Combo Box and List Box
- Table, Database Navigator and Database Search

NiceForm File Running Desktop Computer

Transferring Files to a Mobile Device

When you have designed your label or form, you need to synchronize the label/ form files with your Mobile Device. You have two options: Export the label (.LBL) file with NiceLabel Pro or use the Synchronization Manager.

To transfer files from your desktop computer to your Mobile Device, you must have Microsoft ActiveSync installed on your computer. ActiveSync allows for USB, serial, IR and TCP/IP wireless synchronization on a scheduled interval. You must understand how synchronizing files between your desktop computer and your Mobile Device works. See the documentation of your Mobile Device for further references.

Exporting a Label (.LBL) File with NiceLabel Pro

You export a label (.LBL) file with NiceLabel Pro using the **Export to Pocket PC** command under the **File/ Export** menu. The export function checks if the settings and formatting of the label (.LBL) file is compatible with Pocket NiceLabel. If not, an error message will appear explaining why exporting the file is not possible. You have to change your file accordingly and export it again. The export command saves the label in a format that Pocket NiceLabel can read on your Windows CE Mobile Device.

Two files will be created when you export your label (.LBL) file:

- .LVR file containing information about the variable fields on the label.
- .PNL file containing the exported label layout with all the objects in the printer specific code.

Both files will be saved to the same folder where the original label file is stored. You have to manually transfer the .LVR and .PNL files to the synchronization folder of your Mobile Device. ActiveSynch will transfer the files once your Mobile Device is connected to your desktop computer.

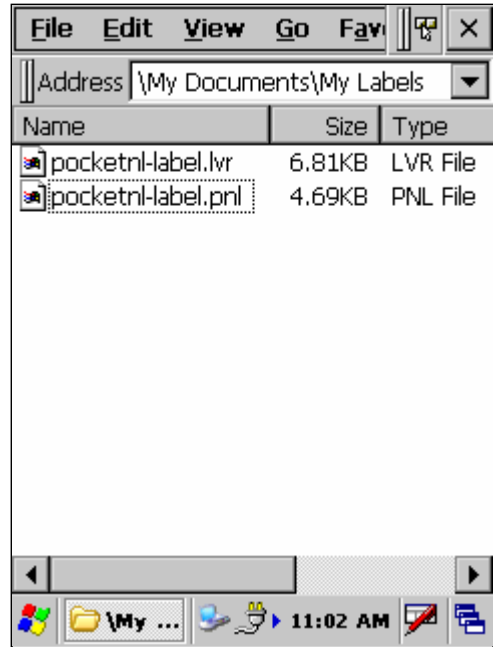
For more detailed information about label export to your Mobile Device, please see the Pocket NiceLabel Quick Start Guide available for download on the NiceLabel Web site at www.nicelabel.com.

Exporting Label (.LBL) and Form (.OFF) Files with Synchronization Manager

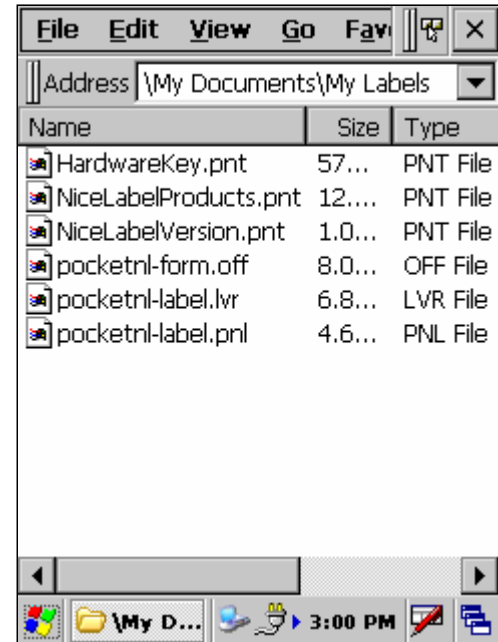
The Synchronization Manger is a NiceLabel application that you can find under **Start/ All Programs/ NiceLabel 4/ Utilities**. The Synchronization Manager exports and synchronizes all label (.LBL), form (.OFF) and database files with your Mobile Device.

The export function checks if the settings and formatting of the label (.LBL) and form (.OFF) files are compatible with Pocket NiceLabel. The export command saves the label in a format that Pocket NiceLabel can read on your Windows CE Mobile Device. The Synchronization Manager will transfer the files to the Mobile Device automatically if it does not find an error with the files.

If you link the form with a database, the Synchronization Manager will export the database files into a .PNT file that provides a snapshot of the data at the time of the export to your Mobile Device. The actual database will not be transferred to the Mobile Device. If you want to change the database, you have to do the changes on your desktop computer and synchronize the form (.OFF) file again.



Exported Pocket NiceLabel Files



Exported Pocket NiceForm Files

Mobile Label Printing Solution

Pocket NiceLabel is a software package for Windows CE and Pocket PC terminals that enables you to print bar code labels in a mobile environment directly to a thermal printer or through any printer on your network. Pocket NiceLabel is part of two NiceLabel products that are dedicated to simple mobile label printing: NiceLabel Suite and NiceLabel Pocket PC Designer.

NiceLabel Suite

NiceLabel Suite is the premier label printing solution for both desktop and mobile label printing. NiceLabel Suite enables you to create mobile printing applications that print directly from the Mobile Device to the printer or through a server when used with the NiceWatch print server. The NiceLabel Suite software offers the following modules (among others) that you can use to create your mobile label printing solution:

- **NiceLabel Pro:** Full-featured label design and printing software that you use to create and print label (.LBL) files with your desktop computer.
- **NiceForm:** A front-end labeling application generator for desktop and mobile label printing environments. NiceForm provides operators a simple and pre-defined label printing interface that simplifies data input and reduces errors in data processing and label printing. Pocket NiceForm is the front-end label application for mobile label printing and included in Pocket NiceLabel.
- **NiceWatch:** A centralized print server to automate label printing operations. NiceWatch accepts a print request from any mobile, desktop, ERP or WMS application to automate label printing without user intervention.
- **NiceMemMaster:** Utility to download true type fonts and graphics to a printer's internal memory to enhance printing performance for thermal printers.
- **Pocket NiceLabel:** A mobile client that executes the label and form designs that were created on a desktop PC.

The NiceLabel software family offers non-programmers the ability to develop a solution for any mobile printing environment. Using NiceLabel Pro or NiceForm, you have an interface similar to Windows Office that makes label and form design easy for your mobile printing application.

NiceLabel Pocket PC Designer

NiceLabel Pocket PC Designer enables you to create mobile printing applications that print directly from the Mobile Device to the printer through Wi-Fi (TCP/IP), Bluetooth, COM (serial) or IR communication. The NiceLabel Pocket PC Designer is a mobile label printing application only. You cannot use the NiceLabel Pocket PC Designer for desktop label printing. NiceLabel Pocket PC Designer includes the following:

- **NiceLabel Pro:** Full-featured label design and printing software that you use to create and print label (.LBL) files with your desktop computer.
- **NiceForm:** A **limited** version of the standard NiceForm that allows rapid user interface design for a Mobile Device only. Interface design for a desktop PC is not enabled.
- **Pocket NiceLabel:** A mobile client that executes the label and form designs that were created on a desktop PC.

Comparison Table: NiceLabel Pocket PC Designer and NiceLabel Suite

NiceLabel Pocket PC Designer and NiceLabel Suite support the following mobile printing tools and functions:

	Pocket PC Designer	NiceLabel Suite
NiceLabel Pro: Label (.LBL) design on desktop computer	x	x
NiceForm: Form (.OFF) design on desktop computer	x	x
NiceWatch: Print server		x
NiceMemMaster: True type fonts utility to enhance printer performance		x
Pocket NiceLabel: Mobile label printing	x	x
Pocket NiceForm: Mobile form printing	x	x
Label printing from desktop computer		x
Distributed (print server) printing with NiceWatch from Mobile Device		x
Direct label printing from Mobile Device	x	x
ActiveX Integration	x	x

Comparison Table: Pocket NiceLabel Printing Methods

Pocket NiceLabel offers three (3) types of label printing methods: direct, distributed (print server) and print engine printing method.

	Direct Printing	Distributed Printing	Print Engine Printing
Label design limitations	x		x
Pocket NiceLabel: Mobile label printing	x	x	
Pocket NiceForm: Mobile form printing	x	x	
Thermal printer support	x	x	x
Laser printer support		x	
NiceWatch (print server) required		x	
Custom programming required			x

System Specifications

If you use Pocket NiceLabel for a mobile label printing application, you will design the label template for your Mobile Device on a desktop computer and export the labels and data stored in a database to your Mobile Device. Pocket NiceLabel is a print only application and you cannot design labels with your Mobile Device. You must perform any label design or database changes on your desktop computer and export the modified files to your Mobile Device again.

Desktop Computer

- Pentium based computer with at least 64 MB of free RAM.
- One of the 32-bit Windows operating systems: Microsoft Windows 98 SE, ME, NT, 2000, XP or 2003.
- Hard disk with 50 to 205 MB of free disk space (depending on installation options).
- CD-ROM drive.
- Support for OLE DB database drivers. Recent Windows operating systems have included OLE DB database drivers. If your operation system does not have the database support, the installation wizard will prompt you to install it.
- Administrator rights to the local computer during installation.

Mobile Device

Pocket NiceLabel is the mobile client for the NiceLabel mobile printing products and for many different Windows mobile operating systems and hardware processors. Pocket NiceLabel is a single device license and each mobile device that is using Pocket NiceLabel requires a Client Access License (CAL). Client Access Licenses are available for 5, 10, 20 and 50 devices as well as a 1-year site license.

Operating Systems:	Windows CE 2.11 and above, Pocket PC, Pocket PC 2002, Windows Mobile 2003, Windows CE.NET 3.0 and above.
Processors:	MIPS, SH3, SH4, StrongARM, XScale, X86.
Programmer Interface:	ActiveX, .NET Compact Framework.
File Synchronization:	ActiveSync Version 3.5. or higher.

NiceDrivers

NiceDrivers support more than 900 thermal transfer printers and enable the NiceLabel software to use a direct communication mode to gain complete control over all printer settings and guarantee high-speed printing. You can download and install NiceDrivers for your thermal transfer printer for free from the NiceLabel Web site at www.nicelabel.com.

NiceDrivers are required for the Direct Printing Method and not required, but recommended, for the Distributed (Print Server) Printing Method.

Conclusion

Pocket NiceLabel provides simple label printing solutions on Pocket PC Windows CE and Windows CE.NET Mobile Devices. Pocket NiceLabel does not require any programming skills to design labels for your Mobile Device and offers the flexibility to print labels directly to more than 900 thermal printers or to any printer on your network using the NiceWatch print server.

The Pocket NiceLabel engine enables software developers to add label printing to any Windows based mobile application without writing a single line of embedded printer code. Pocket NiceLabel's ActiveX Programming Interface (API) gives any application the flexibility to print to more than 900 thermal printers.

If you want to learn more about Pocket NiceLabel, please contact one of our offices below.

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NiceLabel Products

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Appendix

Euro Plus d.o.o. and Niceware International, LLC

Euro Plus d.o.o. and Niceware International, LLC develop, supply and support software for automatic identification and data collection (AIDC) solutions on the desktop PC, the corporate server or the mobile enterprise environment. Our flagship product NiceLabel has become one of the world's major label design and printing software combining easy-to-use interfaces with the integration of advanced thermal transfer technology, ERP systems solutions, RFID technology and data collection tools. NiceLabel cooperates with printer manufacturers, partners and customers from all over the world.

Microsoft has certified all NiceLabel products with the "Designed for Windows XP, 2000, ME, 98 & NT" logo, indicating reliability and operational compliance in the latest Windows environments. As a Microsoft Certified Partner, Niceware and Euro Plus present an excellent business opportunity for all those searching for a reliable, high-tech and advanced partner in the automatic identification and data collection industry.

NiceLabel Product Overview

NiceLabel is the most advanced professional labeling software for desktop and enterprise users. NiceLabel offers an easy-to-use interface and meets any label design and printing requirement for efficient label printing solutions to users in retail, logistics, health care, chemical, automotive and other industries. The main product lines include NiceLabel Suite, NiceLabel Pro, NiceLabel Express and Pocket NiceLabel.

NiceLabel Suite: Complete software solution for any type of label design and print requirement. Multiple connectivity options allow users to perform stand-alone printing or integrate label printing into any network environment. NiceForm is a module in NiceLabel Suite that allows creating data entry and printing applications to make label production simple and error free. NiceLabel Suite includes NiceLabel Pro, NiceWatch, NiceForm, NicePrint and Windows CE support to create mobile printing applications.

NiceLabel Pro: Full-featured software designed for professional label design and printing, including complete database support and integration options. A wide range of features and options make NiceLabel Pro a perfect and easy-to-use tool for any labeling requirement. NiceLabel Pro includes NiceData and NiceMemMaster.

NiceLabel Express: Wizard-based software that fulfills basic bar code labeling needs. This entry-level software includes many design elements from the Pro edition with the emphasis on simplified user interaction.

Pocket NiceLabel: Software package for Windows CE and Pocket PC terminals for bar code label printing in a mobile environment. Pocket NiceLabel enables Windows CE compatible computers and terminals to print bar code labels on any type of thermal printer that is supported by NiceLabel printer drivers.