
Subject: Print raw data (direct print)

Posted by [tojocky](#) on Fri, 30 Mar 2012 08:36:50 GMT

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Hello,

I propose to add method to communicate direct with a printer.

For this I want to share with windows code, for linux I developed this by using lpr -oraw in nodeJS JavaScript code.

OK. The windows U++ version is:

```
#include <Core/Core.h>
#include <windows.h>
#include <Winspool.h>
#pragma comment(lib, "Winspool.lib")
```

```
using namespace Upp;
```

```
bool RawDataToPrinter(const String &printername, const String &data, const String &docname,
const String &type);
```

```
bool RawDataToPrinter(const String &printername, const String &data, const String &docname){
return RawDataToPrinter(printername, data, docname, "RAW");
}
```

```
bool RawDataToPrinter(const String &printername, const String &data){
return RawDataToPrinter(printername, data, "My Document", "RAW");
}
```

```
#if COMPILER_MSC
```

```
//
```

```
// RawDataToPrinter - sends binary data directly to a printer
```

```
//
```

```
// printername: String specifying printer name
```

```
// data:      String raw data bytes
```

```
// docname:   String specifying document name
```

```
// type      String specifying data type. E.G.: RAW, TEXT, ...
```

```
//
```

```
// Returns: true for success, false for failure.
```

```
//
```

```
bool RawDataToPrinter(const String &printername, const String &data, const String &docname,
const String &type){
```

```
    bool    bStatus = false;
```

```
    HANDLE  hPrinter = NULL;
```

```
    DOC_INFO_1 DocInfo;
```

```
    DWORD   dwJob = 0L;
```

```

DWORD    dwBytesWritten = 0L;

// Open a handle to the printer.
bStatus = OpenPrinter( (LPTSTR)(~printername), &hPrinter, NULL );
if (bStatus) {
    // Fill in the structure with info about this "document."
    DocInfo.pDocName = (LPTSTR)(~docname);
    DocInfo.pOutputFile = NULL;
    DocInfo.pDatatype = (LPTSTR)(~type);

    // Inform the spooler the document is beginning.
    dwJob = StartDocPrinter( hPrinter, 1, (LPBYTE)&DocInfo );
    if (dwJob > 0) {
        // Start a page.
        bStatus = StartPagePrinter( hPrinter );
        if (bStatus) {
            // Send the data to the printer.
            bStatus = WritePrinter( hPrinter, (LPTSTR)(~data), data.GetLength(),
&dwBytesWritten);
            EndPagePrinter (hPrinter);
        }else{
            Cout()<<"StartPagePrinter error\n";
        }
        // Inform the spooler that the document is ending.
        EndDocPrinter( hPrinter );
    }else{
        Cout()<<"StartDocPrinter error\n";
    }
    // Close the printer handle.
    ClosePrinter( hPrinter );
}else{
    Cout()<<"OpenPrinter error "<<printername<<"\n";
}
// Check to see if correct number of bytes were written.
if (!bStatus || (dwBytesWritten != data.GetLength())) {
    bStatus = false;
    Cout()<<"not sent all bytes\n";
} else {
    bStatus = true;
}
return bStatus;
}
#else
#error Wrong OS for compile raw printer
#endif

```

and a little test to communicate with ZEBRA label printer:

```
CONSOLE_APP_MAIN
{
String data;
data<<"N"
  <<"\nS4"
  <<"\nD15"
  <<"\nq400"
  <<"\nR"
  <<"\nB20,10,0,1,2,30,173,B,\"123456\""
  <<"\nP0"
  <<"\n";

ToAscii(data);
if(RawDataToPrinter("\\\\ilupascu.main.orange.md\\ZEBRA", data)){// or local printer just the
name of the printer
  Cout()<<"OK\n";
}else{
  Cout()<<"FAILED\n";
}
}
```

Subject: Re: Print raw data (direct print)
Posted by [Lance](#) on Sat, 31 Mar 2012 15:05:42 GMT
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Interesting.

A few years ago I did some work to print to ESC-capable printer (eg. Epson dot-matrix) because I need to print to label of 1" height.

Your work could be used when there are no fixed paper heights, e.g., receipt printing. A quick question, can I use it to print formatted text or even image?

Subject: Re: Print raw data (direct print)
Posted by [tojocky](#) on Sat, 31 Mar 2012 19:14:57 GMT
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Lance wrote on Sat, 31 March 2012 18:05A quick question, can I use it to print formatted text or even image? It depends on printing language!
