



Softogo.Print – User’s manual

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20040915 Version 1.0	
20100811 Version 1.1	Hexadecimal characters added

Use of Softogo.Print

Declaration

To declare the Softogo.Print object in an HTML page, the following line of code should be included in its body.

```
<OBJECT
  ID="PrintObj" CLASSID="CLSID:5C93AC05-C238-49C1-8CB4-E9D8A9FA242C">
</OBJECT>
```

Methods

The object includes the following methods.

AddData ("Add data to the buffer.")
 AddLine ("Add a line, data + end-line, to the buffer.")
 Print (copies)
 Clear ()
 PrintFromFile ("\\print\\filetoprint.txt", copies)
 GetLastError()
 GetLastErrorDes()

For each method adding or printing strings you may use the "\\XX" escape sequence in the string for printing the hexadecimal character XX. (from \\00, \\01, ... to \\FF).

AddData ("Add data to the buffer.")

Add text to the buffer **without** a new line character. You may use the "\\n" escape sequence, in between or at the end of the text, to indicate an end of line.

Examples:

Command	Output
AddData ("Data1")	Data1←
AddData ("Data1\\n")	Data1␣ ←
AddData ("Data1\\nData2")	Data1␣ Data2←
AddData ("Data1\\nData2\\n")	Data1␣ Data2␣ ←

AddLine ("Add a line, data + end-line, to the buffer.")

Add text to the buffer **with** a new line character. You may use the "\\n" escape sequence, in between or at the end of the text, to indicate new lines.

Examples:

Command	Output
AddLine ("Data1")	Data1 ↵ ←
AddLine ("Data1\nData2")	Data1 ↵ Data2 ↵ ←

Print (copies)

Print the buffer the number of times indicated with the *copies* parameter.

Clear ()

Clear buffer.

PrintFromFile ("\\print\\filetoprint.txt", copies)

Print the file the number of times indicated with the *copies* parameter.

GetLastError()

Returns the code for the last error occurred. Zero means that the last operation returned no error.

GetLastErrorDes()

Returns a description of the last error occurred. An empty string means that the last operation returned no error.

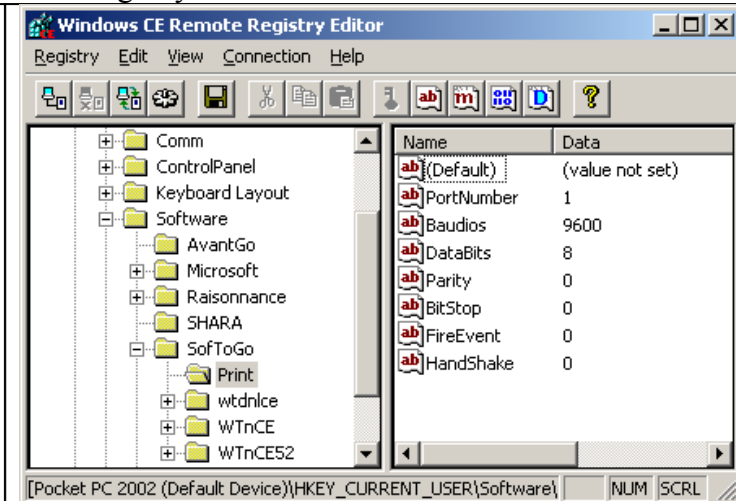
Communications port configuration

The Softogo.Print object initializes the communication through the serial port, using the following information taken from the Pocket PC's registry.

```

HKEY_CURRENT_USER
  Software
    Softogo
      Print
        PortNumber = "1"
        Baudios = "9600"
        DataBits = "8"
        BitStop = "0"
        Parity = "0"
        FireEvent = "0"
        HandShake = "0"

```



PortNumber

The port number for the port to be used during the communication. E.g. 1.

Baudios

The baud rate for the communication. Valid values are the ones indicated bellow.

110
300
600
1200
2400
4800
9600
14400
19200
38400
56000
57600
115200
128000
256000

HandShake

Internal communications protocol used for transferring data at hardware level.

0	None
1	Hardware
2	Software

DataBits

Number of transferred bits. Valid values are 7 and 8.

Parity

This states the parity type. Valid values are as follows.

0	None
1	Odd
2	Even
3	Mark
4	Space

BitStop

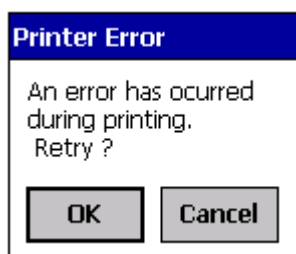
Number of stop bits.

0	1 bit
1	1.5 bits
2	2 bits

FireEvent

Action followed in case an error occurs.

1	Triggers an event. Doesn't retry operation.
0	Shows an error message, and allows to retry.

**Complete examples****Simple print**

The following example prints three lines in a row when the Print button is pressed.

```
<HTML>
  <HEAD>
    <TITLE>ATL 3.0 test page for object Print</TITLE>
  </HEAD>

  <SCRIPT ID=clientEventHandlersJS LANGUAGE=javascript>
```

```

function Print()
{
    PrintObj.AddData("Text 1 on line 1\nText 2 on line 2\n");
    PrintObj.AddLine("Text 3 on line 3");
    PrintObj.Print(1);
    PrintObj.Clear();
}
</SCRIPT>

<BODY>
    <OBJECT
        ID="PrintObj"
        CLASSID="CLSID:5C93AC05-C238-49C1-8CB4-E9D8A9FA242C">
    </OBJECT>
    <input type="button" onclick="Print()"
        value="Print" id=button1 name=button1>
</BODY>
</HTML>

```

Simple printing from file

The following example prints 2 copies of the text.txt file found in the toprint directory.

```

<HTML>
    <HEAD>
        <TITLE>ATL 3.0 test page for object Print</TITLE>
    </HEAD>

    <SCRIPT ID=clientEventHandlersJS LANGUAGE=javascript>
        function Print()
        {
            PrintObj.PrintFromFile("\\toprint\\text.txt", 2);
        }
    </SCRIPT>

    <BODY>
        <OBJECT
            ID="PrintObj"
            CLASSID="CLSID:5C93AC05-C238-49C1-8CB4-E9D8A9FA242C">
        </OBJECT>
        <input type="button" onclick="Print()"
            value="Print" id=button1 name=button1>
    </BODY>
</HTML>

```

Capturing an event when an error occurs

To generate a known error, we ask ActiveX to print when the port is not available. We also state in the registry that, if an error were to occur, an event should be triggered. This is made with the FireEvent parameter set to “1”.

When the error occurs, ActiveX triggers the PrintError event, which is captured by the script included under the PrintObj object declaration.

This script shows the error code and its description.

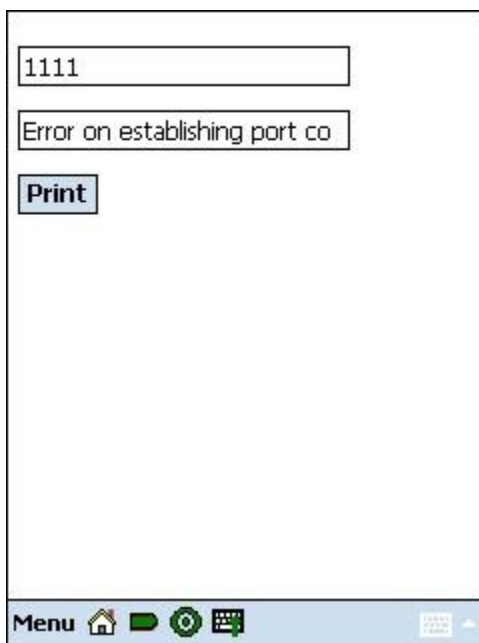
```
<HTML>
  <HEAD>
    <TITLE>ATL 3.0 test page for object Print</TITLE>
  </HEAD>
  <SCRIPT ID=clientEventHandlersJS LANGUAGE=javascript>
    function Print()
    {
      PrintObj.PrintFromFile("\\toprint\\text.txt", 1);
    }
  </SCRIPT>

  <BODY>
  <OBJECT
    ID="PrintObj" CLASSID="CLSID:5C93AC05-C238-49C1-8CB4-E9D8A9FA242C">

  <SCRIPT FOR="PrintObj" EVENT="PrintError">
    text1.value = PrintObj.GetLastError();
    text2.value = PrintObj.GetLastErrorDes();
  </SCRIPT>

    <P> <INPUT id=text1 name=text1 value=""> </P>
    <P> <INPUT id=text2 name=text2 value=""> </P>
    <input type="button"
      onclick="Print()" value="Print" id=button1 name=button1>

  </BODY>
</HTML>
```



Complete example

The following example shows how ActiveX works.

```
<HTML>

  <HEAD>
    <TITLE> SofToGo.Print </TITLE>
  </HEAD>

  <SCRIPT ID=clientEventHandlersJS LANGUAGE=javascript>
    function AddData()
    {
      PrintObj.AddData(txtData.value);
      txtRes.value = "AddData OK"
    }
    function AddLine()
    {
      PrintObj.AddLine(txtLine.value);
      txtRes.value = "AddLine OK"
    }
    function Print()
    {
      PrintObj.Print(txtPCop.value);
      txtRes.value = "Print OK"
    }
    function Clear()
    {
      PrintObj.Clear();
      txtRes.value = "Clear OK"
    }
    function GetError()
    {
      txtErr.value = PrintObj.GetLastError();
      txtErrD.value = PrintObj.GetLastErrorDes();
    }
    function PrintFromFile()
    {
      PrintObj.PrintFromFile(txtPath.value, txtFCop.value);
    }
  </SCRIPT>

  <BODY>
    <OBJECT
      ID="PrintObj"
      CLASSID="CLSID:5C93AC05-C238-49C1-8CB4-E9D8A9FA242C">
    </OBJECT>

    <SCRIPT FOR="PrintObj" EVENT="PrintError">
      GetError()
    </SCRIPT>

    <P>
      Data: <INPUT id=txtData name=txtData size=10 value="Here the text">
      <INPUT type="button" onclick="AddData()" value="AddData" >
    </P>

    <P>
      Line: <INPUT id=txtLine name=txtLine size=10 value="Here the text">
      <INPUT type="button" onclick="AddLine()" value="AddLine" >
    </P>
```



```

<P>
Copies: <INPUT id=txtPCop name=txtPCop size=2 value="1">
<INPUT type="button" onclick="Print()" value="Print">
<INPUT type="button" onclick="Clear()" value="Clear" >
</P>

<P>
<INPUT id=txtRes name=txtRes value="">
</P>

<HR>

<P>
Path: <INPUT id=txtPath name=txtPath value="\print\test.txt">
<P>

</P>
Copies: <INPUT id=txtFCop name=txtFCop size=2 value="1">
<INPUT type="button" onclick="PrintFromFile()" value="File Print">
</P>

<HR>

<P>
Err:<INPUT id=txtErr name=txtErr size=4 value="">
<INPUT type="button" onclick="GetError()" value="Get">
<INPUT id=txtErrD name=txtErrD value="">
<P>

</BODY>

</HTML>

```

The screenshot displays the SofToGo.Print application window. It features several sections for user input and control:

- Data Section:** A text input field containing "Here the text" and an "AddData" button.
- Line Section:** A text input field containing "Here the text" and an "AddLine" button.
- Copies Section:** A numeric input field with "1", a "Print" button, and a "Clear" button.
- Path Section:** A text input field containing "\print\test.txt".
- Copies Section:** A numeric input field with "1" and a "File Print" button.
- Err Section:** A text input field and a "Get" button.

At the bottom of the window, there is a menu bar with icons for "Menu", "Home", "Print", and "Exit".