

Introduction

SNTimeCalc was developed to facilitate mathematical operations with time and date.

SNTimer is a **32 bits ACTIVEX control developed with C++ using ATL - Active Template Library**. This implies that it is fast, compact and does not have any dependence besides those of the operational system DLLs.

SNTimeCalc was tested with two container languages: Visual Basic 5 (with service pack 3 applied) and Internet Explorer 4.

The SNTimeCalc versions

The SNTimeCalc control has two versions.

1. SNTimeCalc Demo and Trial version, with distribution prohibited to end users.
2. SNTimeCalc Licensed version, that can be freely distributed to end users.

The two versions are fully functional, from the programmer's perspective. This implies that one can use the SNTimeCalc Demo in the Visual Basic accessing all its functionality, but the developed VB program will run only in Visual Basic design mode. It is possible to generate a VB EXE but this EXE will not run.

If the programmer changes the SNTimeCalc Demo version copy of its machine for a Licensed version, all VB EXEs generated with the Demo version will now run.

The SNTimeCalc trial package

The SNTimeCalc trial package is formed by four principal items:

One technical manual, that is this Word file.

SnailTimeCalc.dll, which contains the control.

SnailTimeCalc.lic, the license file, required when using the control in design mode.

SNTimeCalc Install.txt - a plain text file explaining how to install and uninstall the SNTimeCalc.

Some VB5 and IE4 examples code are also included in the package.

The SNTimeCalc licensed package

The SNTimeCalc trial package is formed by five principal items:

One technical manual, that is this Word file.

SnailTimeCalc.dll, which contains the control.

SnailTimeCalc.lic, the license file, required when using the control in design mode.

SnailTimeCalc.lpk, the license file, required when the control is used in Internet pages when they need to be distributed.

SNTimeCalc Install.txt - a plain text file explaining how to install and uninstall the SNTimeCalc.

Some VB5 and IE4 examples code are also included in the package.

How to register and unregister the control in the system

Like an OCX. The SNTimeCalc can be put in any directory.

To register

From the menu Start, select Run...

Type: **RegSvr32** [complete path of the control]/SnailTimeCalc.dll

Click OK

To unregister

From the menu Start, select Run...

Type: **RegSvr32 /u** [complete path of the control]/SnailTimeCalc.dll

Click OK

What must be distributed to end users

With VB programs, only the file SnailTimeCalc.dll authorized distribution version.

With IE pages, the SnailTimeCalc.dll authorized distribution version and the SnailTimeCalc.lpk.

How to identify the installed SNTimeCalc version

Launching the Explorer of the Windows, selecting the SnailTimeCalc.dll file and clicking the right button, the programmer will see, among its properties, one of the following comments:

“Demo and Trial version. Distribution prohibited to end users.”

“ Licensed version.”

How to replace the demo version with the licensed version

The most secure method is:

1. Close all programs that are running.
1. Unregister the current SnailTimeCalc (follow instructions above).
2. Replace the file SnailTimeCalc.dll Demo version with the file SnailTimeCalc.dll Licensed version.
1. Register the new SnailTimeCalc.dll (follow instructions above).

How to obtain technical support

By the email address: **snail@internetcom.com.br**

How to obtain technical notes (FAQs) and sample codes

Check our site: **vbcontrol.com**.

SNTIMECALC PROPERTIES, METHODS AND EVENTS

PROPERTIES

Property Name	Type	Values	What it does
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The control does not have properties

METHODS

Method Name	Parameters	Return	What it does
DatePlusDays	Date - Variant Days - Variant	Variant	Takes a date and a number of days (positive or negative) and returns a date
DayOfWeek	Date - Variant	Variant	Takes a date and returns the day of week (0 - sunday, 1 - monday and so on)
DaysBetweenDates	Date1 - Variant Date2 - Variant	Variant	Takes two dates and returns the interval between the dates, in days (positive or negative)
TimeMinusTime	Time1 - Variant Time2 - Variant	Variant	Takes two times and returns their difference in times
TimePlusTime	Time1 - Variant Time2 - Variant	Variant	Takes two times and returns their total in times

Important note about TimeMinusTime and Time Plus Time: The operations are always clockwise.

Examples:

Operation	Result
18:01:08 + 03:00:00	21:02:16
18:01:08 + 08:01:08	02:02:16
18:01:08 - 03:00:00	15:01:08
18:01:08 - 19:00:00	23:01:08

EVENTS

Event Name	Parameters	When it occurs
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The control does not have events