Icetips Window Fixer

Classes and Templates

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10/14/2018

Icetips Window Fixer

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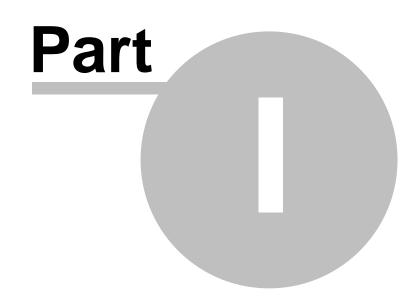
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Chapter 1 - Icetips Window Fixer

1 Icetips Window Fixer

Welcome to Icetips Window Fixer

This documentation is for build 2018.10.156 released on October 14, 2018. Please refer to the "Support" tab on the templates and commented headers in the class files to verify that you have the correct documentation for the build that you are using.

Window Fixer:

- Makes sure that windows are not opened outside of the virtual screen
- Checks all available monitors to get the extent of the available screen coordinates.
- · Optionally allows windows to extend over multiple monitors
- Optionally pulls windows to the nearest monitor so they are completely contained by that monitor
- Optionally allows specifying percent of windows area that can be outside of a monitor view.
- Works with Appframes, MDI and non-MDI windows.
- Works with both ABC and Clarion (Legacy) templates.
- Works with Clarion 6 and 7.

The lcetips Window Fixer is a set of templates and classes that checks window positions and sizes when windows are opened to make sure that they are visible. When window sizes and positions are set to save and restore in your application it can cause problems and it may place windows outside of the virtual screen, so the user cannot see the windows and thinks the program has crashed.

Note that the classes are NOT ABC compliant and can be used in any kind of projects, included purely handcoded projects.

See http://msdn.microsoft.com/en-us/library/dd145136(VS.85).aspx for more information about the "Virtual Screen"

1.1 Welcome

Welcome to Icetips Window Fixer. Please read the License Agreement and the User Reference to familiarize yourself with the product.

1.1.1 License Agreement

Welcome

Icetips "Window Fixer" End-User License Agreement

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1.1.2 Support

You have multiple ways to contact us for support. Easiest is email to support@icetips.com We usually respond within minutes if it is during our business hours and we are available. You can also post on our forums and we will be notified by email of new topics. By pressing the "Icetips Support" link on the "Support" tab in the templates you will get a list of all the options that you have to contact us for support.

1.1.3 Version History

This chapter lists releases with changes to classes, templates and documentation.

Version 2018.10.156 - Sunday, October 14, 2018 Version 1.0.148 - February 24, 2015 Version 1.0.147 - January 29, 2014 Version 1.0.146 - August 3, 2013 Version 1.0.144 - May 4, 2011 Version 1.0.140 - December 21, 2010 Version 1.0.130 - Febuary 9, 2010 Version 1.0.128 - January 26, 2010

Version 2018.10.156 [October 14, 2018]

January 27, 2016:

■ Classes	Non MDI windows that were off the left or right borders were not pulled in quite enough. Fixed.
■ Classes	Width of "Single" border was not calculated correctly. Fixed.
■ Template	Implemented an optional check that shows procedures with windows that do not have the IMM attribute to make it easier to identify windows that will not automatically fix.

January 21, 2016:	
Installer	Dual Code signing implemented.
■ Template	Implemented optional automatic fixing on EVENT:Moved and EVENT:Sized. This requires that the window has the "Immediate" attribute set at design time.
Classes	Both MDI and SDI windows that were off the right border or bottom of the frame or screen would not be pulled completely in causing scrollbars to appear in MDI windows. Fixed.

Version 1.0.148 [February 24, 2015]

Welcome

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February 24, 2015:

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Installer Installer built for Clarion 10

Version 1.0.147 [January 29, 2014]

January 29, 2014:

Installer Installer built for Clarion 9.1

Version 1.0.146 [August 3, 2013]

August 3, 2013:		
■ Installer	Installer built for Clarion 9.0	
May 31, 2011:		
■ Installer	Installer suggested "Clarion7" in the examples path. Fixed.	
Version 1.0.144	[May 4, 2011]	
May 4, 2011:		
■ Installer	Installer Installer built for Clarion 8.0.	
March 9, 2011:		
Template	Added option to select various priorities for ABC code generation. The template now supports priorities 8300, 8500, 9000 and 9500 for the code generation into ThisWindow.Init method. This allows the developer to pick any of the 4 priorities in case there are other templates that are not compatible with Window Fixer.	

Version 1.0.140 [December 21, 2010]

March 15, 2010:

Install	Fully Clarion 7.1 compatible.	
Template	Project defines were not created correctly causing a GPF as the classes	
	were not linked correctly. Fixed.	

Version 1.0.130 [February 9, 2010]

January 27, 2010:

Install Readme file for demo information was wrong.

Version 1.0.128 [January 26, 2010]

January 26, 2010:

Initial release

1.2 User Reference

Welcome to the Icetips Window Fixer User Reference.

Using the template Force Appframe to open on correct monitor Multi DLL considerations Class Reference ShowAllWindow ShowMinPercent FixWindowXYPos Examples Using in handcoded projects Example applications

1.2.1 Using the template

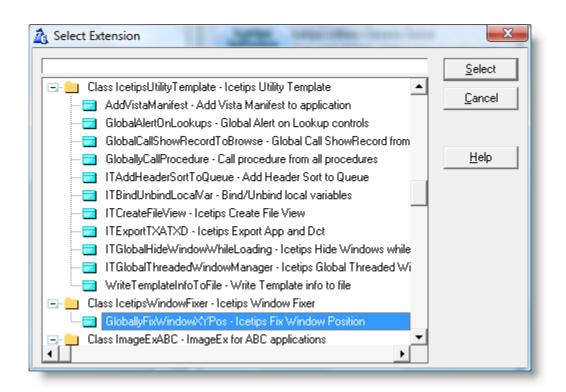
User Reference

The Icetips Window Fixer is very simple to implement. A single Global extension template does all the work for you. Note that the template will only fix the window position when the window opens.

First make sure that the Icetips Window Fixer template is registered by opening the template registry.

🖄 Template Registry	<u>_ ×</u>
	<u>R</u> egister
🖅 🔄 Class IcetipsPreviewer - Icetips Previewer template	Unregister
🖅 📄 Class IcetipsProUtilities - Icetips Professional Wizards Utilities	
🖅 📋 Class IcetipsProWizardControlTemplate - Icetips Pro Wizard Contro	
🖅 💼 Class IcetipsReportCheckboxFixerTemplate - Icetips Report Check	<u> </u>
🖅 😑 Class IcetipsReporterTemplate - Icetips Reporter	<u>D</u> isable
🖅 📄 Class IcetipsReportExtensions - Icetips Report Extensions	
🖅 📋 Class IcetipsReportSQLTool - Icetips Report SQL tool	Edit Definition
🖅 📄 Class IcetipsSys - Icetips SysTree/SysList	
🖅 📄 Class IcetipsUtilityTemplate - Icetips Utility Template	Expand All
🖃 📄 Class IcetipsWindowFixer - Icetips Window Fixer	
🖨 💼 Extension Templates	<u>C</u> ontract All
GloballyFixWindowXYPos - Icetips Fix Window Position	
🗄 💼 Groups	Close
🖅 📄 Class IcetipsWinWizard - Icetips Windows Wizards	
Class ImageExABC - ImageEx for ABC applications	Help

Then open your application and add the global template.



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Lextension and Control Templates	
Icetips Fix Window Position Icetips Utilities Classes Global	Show on Global Properties Icetips Window Fixer Fix Window Size and Position Copyright ©2010 Icetips Alta LLC
▲ Insert Delete ★	Options Exclude Procedures Support This template adds a call to the FixWindowXYPos method to each procedure with a window. This prevents windows from "getting lost" if they open outside of the monitor or the Application Frame. Class name to use ITWinFix □ Force pulling windows to nearest monitor Pull windows when percent outside is > than: 0 ♀ □ Generate No Code
<u>H</u> elp	<u>O</u> K Cancel Apply

Normally this is all you need!

Class name

You can change the name of the class that is instanciated in each window procedure in your application.

Force pulling windows to nearest monitor

You can also force windows to be pulled to the nearest monitor. This setting only applies to windows that are on one or more monitors. Windows that are partially outside of the virtual screen area will always be pulled in.

Pull windows when percent outside is > than

You can set a percent value so that if x% or more is outside of the monitor(s) viewable area, the window will be pulled. in. For example if you set it to 25% then any window that has more than 25% of it's rectangle outside of the virtual screen will be pulled in to be fully visible on the nearest monitor. Note that this option is only applicable when the "Force pulling windows no nearest monitor" is unchecked. If it is checked, windows are always pulled in.

Generate No Code

You can optionally check the "Generate No Code" and then the template will not generate any code at all in your application.

Exclude Procedures

On the "Exclude Procedures" you can select procedures that you do not want to apply this template to.

La Extension and Control Templates	
Icetips Fix Window Position Icetips Utilities Classes Global	Show on Global Properties Icetips Window Fixer Fix Window Size and Position Copyright ©2010 Icetips Alta LLC
▲ Insert Delete ★	Options Exclude Procedures Support Exclude the Selected Procedures: Browsepeople Main PrintPEO:Keyld PrintPEO:Keyld PrintPEO:KeylastName TestNonMDIWindow Updatepeople Updatepeople
<u>H</u> elp	<u>O</u> K Cancel Apply

To exclude a procedure, simply click once on the list of procedures. Click again to unselect.

Support

On the "Support" tab you can see the exact build and release date of this product, as well as click buttons to go to our website, report problems and get support.

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2 Extension and Control Templates	
Cetips Fix Window Position	Show on Global Properties Icetips Window Fixer Fix Window Size and Position Copyright ©2010 Icetips Alta LLC
	Options Exclude Procedures Support Information Icetips Window Fixer Template: Fix Window Size and Position Copyright: Copyright ©2010 Icetips Alta LLC Version: 1.00.107 Released: January 11, 2010 Runtime DLL: [TRun32.d]
✓	Support <u>Visit website</u> <u>Report problems</u> <u>Icetips Support</u>
	<u>O</u> K Cancel Apply

1.2.1.1 Force Appframe to correct monitor

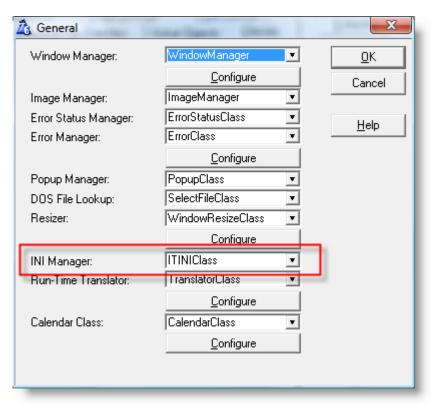
User Reference - Using the template

By default both the ABC and Clarion (Legacy) templates and classes don't save the X and Y coordinates of the application frame window **if it is maximized**. This causes the appframe to open up on the primary monitor which may or may not be the monitor that it was open on when the appframe was closed. This can easily cause confusion an annoyance when the appframe will not open on the correct monitor. Below are very simple methods that you can use to fix this problem. One involves using our derived ITINIClass in your ABC application instead of the INIClass. The other one involves writing some very simple code in your Clarion (Legacy) application.

ABC

If you have letips Utilities build 1.1.2355 or later and you are working with ABC applications you can optionally also add the Utilities to the application and change the INI manager class to use the one provided by the letips Utilities. This build (2355) includes new method for the INI class that fixes a problem with the application frame window not being opened on the correct monitor if it was closed maximized.

Go to the Global | Classes section and click on the "General" tab.



Then drop the list down for the INI Manager and select the ITINIClass instead of the INIClass. Your application frame is now fixed and it will always open on the same monitor that it was closed on.

Clarion (Legacy)

For Clarion (Legacy) applications this is a little trickier. You will have to write some code to omit the generated code that closes the window and duplicate it with some additional code.

```
! End of "End of Procedure, After Closing Files"
END
! Start of "Before Closing the Window"
! [Priority 5000]
OMIT('***END***')
                                  !! AB 2010-01-05: Fix problem with Appframe maximizing on the wrong monitor
 ! End of "Before Closing the Window"
IF WindowOpened
  INISaveWindow('Main','.\people-leg.ini')
  CLOSE(AppFrame)
END
! Start of "After Closing the Window"
! [Priority 5000]
                        !! AB 2010-01-05: Fix problem with Appframe maximizing on the wrong monitor
***END***
IF WindowOpened
  INISaveWindow('Main','.\people-leg.ini')
PutIni('Main','XPos',0{Prop:Xpos},'.\people-leg.ini')
PutIni('Main','YPos',0{Prop:Ypos},'.\people-leg.ini')
  CLOSE(AppFrame)
END
 ! End of "After Closing the Window"
Do UnBindFields

! Start of "End of Procedure"
```

Note that the saving of the window position and closing of the window is omitted and then duplicated. You then need to save the X and Y positions of the appframe procedure to wherever it is supposed to be saved - in this case an INI file in the application folder. Since Legacy does not allow much flexibility in this regard I'm afraid it will have to be up to you to implement this code, at least for now. For ABC applications

1.2.1.2 Multi DLL considerations

User Reference - Using the template

User Reference

User Reference - Class reference

Multi DLL considerations.

If your application is a multi-dll application you must apply the Icetips Window Fixer template to the application that exports file declarations (base dll/exporting dll) so the class definitions are exported correctly. You do need to add the Icetips Window Fixer template to all of your applications in the multi-dll system if you want all your windows to behave the same way.

1.2.2 Class reference

While there are quite a few properties and methods in the classes, there are only two properties and one method that you need to know about.

ShowAllWindow ShowMinPercent [****] FixWindowXYPos Byte Decimal(7,4) Procedure

1.2.2.1 ShowAllWindow

ShowAllWindow Byte

If this is TRUE before the call to the FixWindowXYPos method it will force the class to pull the window in so that it is 100% visible on one monitor no matter what. This will force windows that are partially on one monitor and partially on another (but the whole window is visible) to be pulled in to the nearest monitor. The monitor that has the highest percentage of the total area of the window rectangle (i.e. > 50.0000%) will get the entire window.

If this is FALSE, then only windows that are < 100% will be pulled into the nearest monitor. Windows that are 100% visible, even if they are on multiple monitors, will be left where they are. However if ShowMinPercent is not equal to zero then it will be used to compare with the visibility percent of the window to decide if it should be pulled into its nearest monitor.

1.2.2.2 ShowMinPercent

ShowMinPercent Decimal(7,4)

Can be used when ShowAllWindow is FALSE to determine how much area of a window can be outside of the virtual screen of combined monitors. For example if this is set to 25 then 25% of any given window can be outside of the virtual screen. If more than 25% is outside the virtual screen, then the window will be pulled in so that it is 100% visible.

1.2.2.3 FixWindowXYPos

User Reference - Class reference

User Reference - Class reference

FixWindowXYPos Procedure

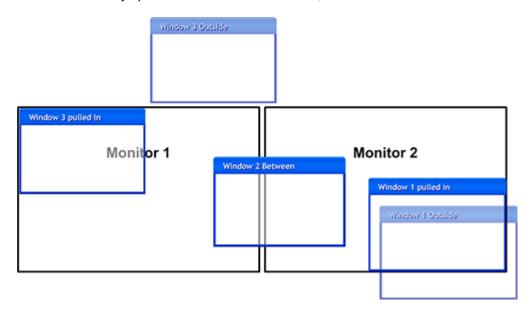
This is where all the magic happens! You can call this method at any time and it will check your window position and move it to where it should be. The template calls this method only when the window opens, after it's position has been modified by the "Save and Restore Window Location" options in the ABC and Clarion (Legacy) templates.

This method works on Appframe, MDI and Non-MDI windows. Windows are NOT resized by the window fixer, only moved.

Appframe windows are placed on the monitor that they belong to or has the highest percentage of the window. Appframe windows are always placed in relation to the screen, i.e. in screen coordinates.

MDI windows are pulled into the appframe client area and the general rule is that the upper left corner is visible. If the window is larger than the appframe's client area then the window will be placed in position 0,0 in the upper left corner of the client area. If the window is too wide, the window will be placed at X position 0. If the window is too tall, then it will be placed at Y position 0. MDI windows are always placed in relation to their parent window (appframe) location, i.e. in client coordinates.

Non-MDI windows are pulled into the monitor visible rectangle. This takes into account the size and location of the taskbar on the primary monitor and also if the taskbar is set to auto-hide or not. On other monitors the full monitor rectangle is used. If a window is partially outside of a monitor, the ShowAllWindow and ShowMinPercent properties dictate how the window is handled. If the window is completely outside the virtual screen it will always be pulled in to be visible on the nearest monitor. If the window is inside the virtual screen area, but is visible on more than one monitor, the ShowAllWindows tells how to handle it. If it is true, then the window is false, then the window is left where it is. If the window is partially outside of the virtual screen then it will be pulled in unless ShowAllWindow is false. Then it is up to the ShowMinPercent value to determine how much of the window can be outside of the virtual screen. If it is 0, then none of the window can be outside and it will be pulled in - this setting works like when ShowAllWindow is set to True. If ShowMinPercent is set to 25% then that means that up to 25% of the total window area can be outside the virtual screen. If more than 25% is outside, the window will be pulled in so that it is completely visible. Non-MDI windows are always placed in relation to the screen, i.e. in screen coordinates.



This image shows 3 windows on two same sized monitors. **Window 1** is partially outside the virtual screen in the bottom, right corner. It will be pulled up and to the left so that it is 100% visible. If ShowAllWindow is false and ShowMinPercent is set to 50%, then the window would be left where it is since there is more than 50% of the window visible on the virtual screen. **Window 2** is visible on both monitors. If ShowAllWindow is set to True, then this window would be pulled into Monitor 2, since it has more than 50% of the window rectangle on it. **Window 3** is completely outside both monitors and will always be pulled into Monitor 1 as it is the nearest one and placed at coordinates 0,0.

1.2.3 Examples

Following is a simple example of how to use the Icetips Window Fixer in a hand coded project. There are also 3 example applications and projects shipped with the product. If you need further assistance, please do not hesitate to ask for help and support:)

1.2.3.1 Using in handcoded projects

It is easy to use the Window fixer in a hand coded project.

First you need to add two lines to the project file:

ITFixWinDllMode=>0 _ITFixWinLinkMode_=>1

This is for stand alone exe or a base dll exporting declarations. For anything else use:

```
_ITFixWinDllMode_=>1
_ITFixWinLinkMode_=>0
```

You need to include the class in your global module:

Include('ITFixWindowClass.inc'),ONCE

You can now instanciate the class and use it anywhere in your project:

```
ITWinFix ITFixWindowClass
```

```
Code
Open(W)
!! Set the window position
ITWinFix.FixWindowXYPos
```

A simple hand coded project is included in the examples, that looks like this:

Program

```
Include('KEYCODES.CLW'),ONCE
Include('ITFixWindowClass.inc'),ONCE
Map
```

End

ITWinFix ITFixWindowClass

User Reference

User Reference - Examples

```
Of ?Button1
Case Event()
Of EVENT:Accepted
ITWinFix.FixWindowXYPos
End
End
End
Close(W)
```

The project file looks like this:

```
--
#noedit
#system win32
#model clarion dll
#pragma debug(vid=>full)
#pragma optimize(cpu=>386)
#pragma define(_ITFixWinDllMode_=>0)
#pragma define(_ITFixWinLinkMode_=>1)
#compile "HCProject.clw"
#link "HCProject.exe"
```

1.2.3.2 Example applications

User Reference - Examples

There are 3 example application included with the Icetips Window Fixer.

PeoABC.app - this is a simple ABC application with the Window Fixer applied.

PeoLeg.app - this is a simple Clarion (Legacy) application with the Window Fixer applied.

HCProject.prj - this is a simple hand coded project with the Window Fixer added.

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